0910-LP-722-6800

VOLUME 2

U.S. NAVY EMERGENCY SHIP SALVAGE MATERIAL CATALOG

POLLUTION EQUIPMENT



DISTRIBUTION STATEMENT A: APPROVED FOR PUBLIC RELEASE; DISTRIBUTION UNLIMITED.

PUBLISHED BY DIRECTION OF COMMANDER, NAVAL SEA SYSTEMS COMMAND.

Downloaded from http://www.everyspec.com

0910-LP-722-6800 VOLUME 2

U.S. NAVY EMERGENCY SHIP SALVAGE MATERIAL CATALOG

POLLUTION EQUIPMENT



DISTRIBUTION STATEMENT A: APPROVED FOR PUBLIC RELEASE; DISTRIBUTION UNLIMITED.

PUBLISHED BY DIRECTION OF COMMANDER, NAVAL SEA SYSTEMS COMMAND.

Downloaded from http://www.everyspec.com

LIST OF EFFECTIVE PAGES

DATE OF ISSUE

Original	May 27, 1999
Change A	
Change B	
Change C	
Change D	
Change E	

Total number of pages in this publication is 1480, consisting of the following:

PAGE	CHANGE *
Title through D	F
Change Record-1 through Change Record-3	
Change Record-4 through Change Record-6	
CS-1	
CS-2	
A & P-1 through A & P-2	
i through xvi	
1-1 through 1-6	
2-1	
2-2 and 2-3	
2-4	
3-1	
3-2	
4-1 and 4-2	0
5-1 through 5-4	A
5-5	0
5-6 through 5-12	A
6-1	0
6-2	A
6-3	
6-4	
7-1	C
7-71 through 7-84D	
7-85 through 7-108N	
7-109	
7-147 through 7-172Z	C

^{*}Zero in this column indicates an original page.

PAGE	CHANGE *
7-173 through 7-191	E
7-192	
7-193 through 7-218	E
7-219 through 7-220	A
7-221 through 7-244F.4	D
7-244G through 7-244CL	
7-245 through 7-250T	
7-251 through 7-258P	
7-259 through 7-278	
7-279 through 7-286 Deleted	
7-287 through 7-302T	
7-303 through 7-318D	
7-319 through 7-320	
7-321 through 7-340	
7-341 through 7-344	
7-345 through 7-356J	
7-357 through 7-358	
7-359 through 7-363	
7-364 through 7-367	
7-368 through 7-368C.2	
7-368D through 7-368H	
7-368I	
7-368J	
7-368K	
7-368L	
7-368M	
7-368N	
7-3680	
7-368P	
7-368Q	
7-368R	
7-368S	
7-368T through 7-368AB	
7-369	
7-370	
7-371	
7-372	
7-373 through 7-375	
7-376 through 7-378	
7-379 through 7-381	
7-382	
7 202	

^{*}Zero in this column indicates an original page.

PAGE	CHANGE *
7-384	A
7-385	
7-386 through 7-388	
7-389 and 7-390	
7-391 and 7-392	
7-392A through 7-392C	
7-392D	
7-392E and 7-392F	
7-392G through 7-392P	
7-393 through 7-399	
7-400	
7-401	
7-402 through 7-404	
7-405 and 7-406	
7-407 and 7-408	
7-409	
7-410	
7-410A through 7-410J	
7-411 through 7-420L	
7-421 through 7-422D	
7-423 through 436B	
7-437 through 7-465	
7-466	
7-467	
7-468	
7-469 through 7-470D	
7-471 and 7-472	
7-473 and 7-474	
7-475 through 7-479	
7-480 through 7-485	
7-486 and 7-487	
7-488 through 7-499	
7-500 through 7-502A	
7-502B through 7-518D	
7-519 and 7-520	
7-521	
7-522	
7-523	
7-524 through 7-524B	
7-524C and 7-524D	
7-524E and 7-524F	
7-524G	

^{*}Zero in this column indicates an original page.

PAGE	CHANGE *
7-524H through 7-524K	
7-524L through 7-524M	
7-524N	
7-525 and 7-526	
7-527	Σ
7-528 through 7-548	С
7-548A	Σ
7-548B and 7-548C Deleted	Σ
7-548D through 7-560F	С
7-561 through 7-562	(
7-563	P
7-564 through 7-564A	
7-564B through 7-564AA	
7-564AB through 7-564AJ	
7-565 and 7-566	A
7-566A	
7-566B and 7-566C	
7-566D through 7-566V	
7-567 through 7-590H	
7-591 and 7-592	
7-593 through 7-618F	
7-619 through 7-658	
7-659 through 7-674 Deleted	
7-675 through 7-732N	F
Index-1 through Index-14	F

^{*}Zero in this column indicates an original page.

CHANGE RECORD

Change No.	Date	Title and/or Brief Description	Signature of Validating Officer
A	27 May 04	Updated and reformatted TOC and Index	
		Updated and reformatted Foreword	
		Updated and reformatted Chapter 1	
		Updated and reformatted Chapter 2	
		Updated and reformatted Chapter 3	
		Updated and reformatted Chapter 5	
		Updated and reformatted Chapter 6	
		Updated and reformatted Chapter 7	
		Updated and reformatted System Number P02100 – Boarding Kit	
		Updated and reformatted System Number P03100 – Boom Handling Boat	
		Updated and reformatted System Number P03200 – Boom Tending Boat (Rigid)	
		Updated and reformatted System Number P04100 – Boom Mooring System	
		Updated and reformatted System Number P04200 – Boom Mooring System Deep Water Extension	
		Updated and reformatted System Number P05200 – Communications System (Shipboard)	
		Updated and reformatted System Number P06100 – Low Pressure Fender System	
		Updated and reformatted System Number P06200 – Fenders (LP Pneumatic 10' x 50' 4/Sys)	
		Updated and reformatted System Number P06400 – Modular Barge System	
		Updated and reformatted System Number P07100 – Portable Firefighting System	
		Updated and reformatted System Number P08100 – Floating Hose System	
		Updated and reformatted of System Number P12200 – Steam Generators	
		Updated and reformatted System Number P14100 – Oil Storage Bladder, 136k-Gallon	

Change No.	Date	Title and/or Brief Description	Signature of Validating Officer
A	27 May 04	Updated and reformatted System Number P14200 – Oil Storage Bladder, 290k-Gallon	
		Updated and reformatted System Number P14300 – 23.1/26/50K-Gallon Spill Recovery Bladder System	
		Updated and reformatted System Number P17100 – Submersible 6" Hydraulic Pump	
		Updated and reformatted System Number P19500 – Personnel Bunk Van	
		Updated and reformatted System Number P19600 – Rigging Van	
		Updated and reformatted System Number P19700 – Shop Van	
		Updated and reformatted System Number P19900 – Personnel Transfer Boats	
		Updated and reformatted System Number P20000 – Rapid Personnel/Equipment Transfer System	
		Updated and reformatted System Number P20400 – Debris Handling System	
В	1 Sept 2004	Updated and reformatted TOC and Index	LLS
		Repaginated Foreword	
		Updated LOEP	
		Updated and reformatted System Number P03300 – Boom Tending Boat (Inflatable)	
		Updated and reformatted System Number P19100 – Oil Containment Boom System	
		Updated and reformatted System Number P20300 – Oil Bladder Transfer System	
С	31 Jan 2006	Updated and reformatted TOC and Index	LLS
		Repaginated Foreword	
		Updated and reformatted System Number P01100 – Beach Transfer System	
		Updated and reformatted System Number P03100 – Boom Handling Boat	
		Updated and reformatted System Number P03300 – Boom Tending Boat (Inflatable)	
		Updated and reformatted System Number P05200 – Communications System (Shipboard)	

Change No.	Date	Title and/or Brief Description	Signature of Validating Officer
С	31 Jan 2006	Updated and reformatted System Number P07100 – Firefighting System (Portable)	
		Updated and reformatted System Number P08100 – Floating Hose System	
		Updated and reformatted System Number P12100 – Oil/Water Separation System	
		Updated and reformatted System Number P12200 – Steam Generators	
		Updated and reformatted System Number P14100 – Oil Storage Bladders, 136K- Gallon	
		Updated and reformatted System Number P14200 – Oil Storage Bladders, 290K- Gallon	
		Updated and reformatted System Number P14300 – Spill Recovery Bladders, 26K/50K-Gallon	
		Updated and reformatted System Number P16100 – Rapid Deployment Skimmer System	
		Added System Number P17200 – 2-Inch to 6-Inch Submersible Hydraulic Pumping System	
		Updated and reformatted System Number P19100 –Oil Containment Boom System	
D	31 Mar 2006	Updated and reformatted TOC and Index	LLS
		Repaginated Foreword	
		Updated and reformatted System Number P05100 – Communications System (Land- Based)	
		Updated and reformatted System Number P05300 – Communications System (Range Enhancing)	
		Updated and reformatted System Number P08100 – Floating Hose System	
		Updated and reformatted System Number P10100 – Hot Tap System	
		Updated and reformatted System Number P16400 – Vessel Skimmer System	
		Updated and reformatted System Number P17100 – 6-Inch Submersible Hydraulic Pump System	

Change No.	Date	Title and/or Brief Description	Signature of Validating Officer
D	31 Mar 2006	Updated and reformatted System Number P19500 – Personnel Bunk Van	LLS
		Updated and reformatted System Number P19600 – Rigging Van	
		Updated and reformatted System Number P19700 – Shop Van	
		Updated and reformatted System Number P19900 – Personnel Transfer Boats	
		Updated and reformatted System Number P20000 – Rapid Personnel/Equipment Transfer System	
		Updated and reformatted System Number P203000 – Oil Bladder Transfer System	
		Updated and reformatted System Number P204000 – Debris Handling System	
		Changed Status to Inactive System Number P20500 – Incinerator System	
		Change Status to Inactive System Number P20600 – Fire Boom System	
Е	30 Jun 2006	Updated and reformatted TOC and Index	LLS
		Updated Chapter 6 – Pollution Response Equipment	
		Updated and reformatted System Number P13200 – Viscous Oil Transfer System	
		Updated and reformatted System Number P16200 – Salvage Support Skimmer System	
		Updated and reformatted System Number P16300 – Vessel of Opportunity Skimmer System	
		Updated and reformatted System Number P16500 – Arctic Oil Recovery System	
		Updated and reformatted System Number P16600 – Rope Mop Skimmer System	
		Updated and reformatted System Number P16700 – Inland Support Skimmer System	
		Removed P16800 – Tier One Tanker System and Replaced with P16800 – Dispersant Spray Unit System	
		Updated and reformatted System Number P18100 – Vacuum Pump/Skimmer System	
		Updated and reformatted System Number P19200 – Cleaning System Van	

Change No.	Date	Title and/or Brief Description	Signature of Validating Officer
Е	30 Jun 2006	Updated and reformatted System Number P18100 – Vacuum Pump/Skimmer System	LLS
		Updated and reformatted System Number P19200 – Cleaning System Van	
		Updated and reformatted System Number P19300 – Command Van	
		Updated and reformatted System Number P19400 – Command Trailer	
		Updated and reformatted System Number P19550 – SOLAS Shipboard Personnel Van	
		Updated and reformatted System Number P19700 – Shop Van	
		Updated and reformatted System Number P19800 – Supply Van System	
		Updated and reformatted System Number P19900 – Personnel Transfer Boats	
		Updated and reformatted System Number P20100 – GPS Response Asset Tracking System	
		Updated and reformatted System Number P20200 – Hose Van	

Downloaded from http://www.everyspec.com

Downloaded from http://www.everyspec.com

NAVSEA TECHNICAL MANUAL CERTIFICATION SHEET

NAVSEA 9086/11 (8/88)

TM Identification Number	Publication Date
S0300-BV-CAT-020	27 May 1999
Change No. <u>E</u> Revision No	Volume No 2 Part No
Book NoChapter No	Other No.
TM Specification.	
Title: U.S. NAVY EMERGENCY SHIP SALV.	AGE MATERIAL CATALOG; POLLUTION EQUIPMENT
FOR CHANGES AND REVISIONS: (Indica	te "NA" if item not applicable)
Purpose of Change/Revision:	
Updated Systems: P13200 P16200 P16300 F	P16500 P16600 P16700 P16800 P18100 P19200
P19300 P19400 F	P19550 P19700 P19800 P19900 P20100 P20200
Updated Chapter 6	
TM/Changa/Pavisian Numbers Supersaded	Changa D
TM/Change/Revision Numbers Superseded: TMDER/ACN Numbers Incorporated: NA	<u>Change D</u>
Ship or Equipment Alteration/Field Change (FC)	
Numbers Incorporated: NA	/Engineering change (EC)
rumoers moorporated.	

CERTIFICATION STATEMENT

This is to certify that responsible NAVSEA activities have reviewed the basic technical manual (), revision (), or change (X) for acquisition compliance, technical coverage, and printing quality. This form is for internal NAVSEA management use only, and does not imply contractual approval or acceptance of the technical manual by the Government. nor relieve the contractor of any responsibility for delivering the technical manual in accordance with the contract requirements.

		NAVSEA SIGNATURES			
Activity Acquisition	<u>Name</u>	<u>Signature</u>	Organization	<u>Code</u>	<u>Date</u>
Technical	Joe Stahovec		NAVSEA	00C24	6/30/06
Printing Release					

NAVSEA TECHNICAL MANUAL CERTIFICATION SHEET

NAVSEA 9086/11 (8/88)

Use additional pages	,		

APPROVAL AND PROCUREMENT RECORD PAGE

APPROVAL DATA FOR: S0300-BV-CAT-020 TITLE OF MANUAL: U.S. NAVY EMERGENCY SHIP SALVAGE MATERIAL CATALOG: POLLUTION EQUIPMENT APPROVAL AUTHORITY: NAVAL SEA SYSTEMS COMMAND, CODE 00C **CONTRACT QUANTITY** NUMBER OF **MANUALS** N00024-01-D-4018 **REMARKS**: **NONE**

CERTIFICATION: DATE: 27 May 1999

It is hereby certified that NAVSEA <u>S0300-BV-CAT-020</u> to be certified under contract number has been approved by the approval authority shown above.

NWS Cheatham Annex C Street, Warehouse 12 Williamsburg, VA 23185 Downloaded from http://www.everyspec.com

Contents

FOREWORD	xv
CHAPTER 1 EMERGENCY SHIP SALVAGE MATERIAL	1-1
SECTION 1.1 SYSTEM DESCRIPTION	
SECTION 1.2 SYSTEM ADMINISTRATION	1-3
SECTION 1.3 SYSTEM OPERATION	
CHAPTER 2 SUPSALV RESPONSIBILITIES	2-1
SECTION 2.1 SUPERVISOR OF SALVAGE	
SECTION 2.2 EMERGENCY SHIP SALVAGE MATERIAL (ESSM)	2-2
SECTION 2.3 SUPSALV OFFSHORE SPILL RESPONSE PROGRAM	2-3
CHAPTER 3 ACCESS TO SUPSALV	
SECTION 3.1 EMERGENCY SUPSALV SUPPORT REQUESTS	3-1
CHAPTER 4 FUNDING AND COST ACCOUNTING	
SECTION 4.1 FUNDING AND COST ACCOUNTING	4-1
CHAPTER 5 COST ESTIMATES, TRANSPORTATION	
CHAPTER 5 COST ESTIMATES, TRANSPORTATION REQUIREMENTS, AND RENTAL RATES	5-1
SECTION 5.1 COST ESTIMATES AND TRANSPORTATION REQUIREMENTS	5-1
SECTION 5.2 SUPSALV OIL SPILL RESPONSE EQUIPMENT RENTAL RATES	
SECTION 5.3 EQUIPMENT TRANSPORTATION TIMES AND COSTS	5-6
CHAPTER 6 POLLUTION RESPONSE EQUIPMENT	6-1
SECTION 6.1 EQUIPMENT INVENTORY	6-1
SECTION 6.2 DAILY EQUIPMENT RECOVERY RATES	6-3
CHAPTER 7 POLLUTION CONTROL EQUIPMENT	7-1
SECTION 7.1 INTRODUCTION	7-1
SECTION 7.2 INVENTORY OBJECTIVE LIST OF POLLUTION EQUIPMENT	
SECTION 7.3 POLLUTION SYSTEMS	7-3
OIL CONTAINMENT BOOM SYSTEM P19100	
OIL CONTAINMENT BOOM VAN (USS-42HB BOOM) VA0737	7-10
OIL CONTAINMENT BOOM VAN (USS-42 BOOM) VA0738	7-12
OIL CONTAINMENT BOOM VAN (FUG BOOM) VA0720	7-14
OIL CONTAINMENT BOOM (USS-42 HB) BM0737	7-16
OIL CONTAINMENT BOOM (USS-42) BM0738	7-20
OIL CONTAINMENT BOOM (MODEL FUG) BM0735	7-24
SHORE BOOM (MODEL USS-42SB) BM0736	
BOOM STORAGE PALLET (USS-42/USS-42HB) BM0876	7-30
FUG BOOM STORAGE PALLET BM0877	7-32

BOOM EQUIPMENT BASKET (USS-42 & USS-42HB) BM0881	7-34
FUG BOOM EQUIPMENT BASKET BM0880	7-34B
19-CFM AIR COMPRESSOR AC0501	7-34D
14-CFM AIR COMPRESSOR AC0500	
5' X 5' X 12" MACHINERY CONTAINMENT POOL CP3000	7-34J
PNEUMATIC 1" DIAPHRAGM PUMP PU2103	7-34L
16' POLYESTER ROUNDLSING SL0012	7-34P
BOOM MOORING SYSTEM P04100	
BOOM MOORING SYSTEM MS0009	
BOOM MOORING SYSTEM MS0011	
500# STATO ANCHOR AN0152	7-44B
1000# STATO ANCHOR AN0153	
MOORING BUOY BU0140	
CROWN BUOY BU0320	7-44H
STUD LINK CHAIN CH1093	7-44J
BOOM MOORING SYSTEM DEEP WATER EXTENSION P04200	
MOORING BUOY BU0140	
BOOM MOORING SYSTEM DEEP WATER EXTENSION MS0020	7-50
BOOM HANDLING BOAT P03100	
24' BOOM HANDLING BOAT CRADLE BC0722	
BOOM HANDLING BOAT TRAILER TR0944	
24' BOOM HANDLING BOAT WB0722A	7-60
CB MARINE MOBILE RADIO RA1709	
VHF MARINE MOBILE RADIO (VOYAGER, 76-CHANNEL) RA1830	
VHF MARINE MOBILE RADIO (ICOM, 58-CHANNEL) RA1831	7-68
RADAR, MODEL 1730, RD0001	
11' 6", 4-LEG, POLYESTER ROUNDSLING BRIDLE SL0350	
24' BOOM HANDLING BOAT TOOL BOX TL0030	7-70Н
BOOM TENDING BOAT (RIGID) P03200	
18' BOOM TENDING BOAT WB0942	
115-HP OUTBOARD MOTOR MT0943	
120-HP OUTBOARD MOTOR MT0946	7-78
90-HP OUTBOARD MOTOR MT0948	
90-HP, 4-STROKE OUTBOARD MOTOR MT0050	
TRAILER FOR WB0942 18' BTB TR0936	7-84
18' BOOM TENDING BOAT TOOL BOX TL0050	
BOOM TENDING BOAT (INFLATABLE) P03300	7-85
19' INFLATABLE BOAT SHIPPING CONTAINER VAN VA2260	7-88
19' INFLATABLE BOAT WB0730	7-90

50-HP, 4-STROKE OUTBOARD MOTOR MT0938	7-92
50-HP, 2-STROKE OUTBOARD MOTOR MT0939	
VHF MARINE MOBILE RADIO (VOYAGER, 76-CHANNEL) RA1830	
VHF MARINE MOBILE RADIO (ICOM, 58-CHANNEL) RA1831	7-98
19' INFLATABLE BOAT TOOL BOX TL0055	7-102
23' INFLATABLE BOAT SHIPPING CONTAINER (10') VAN VA2264	7-104
23' INFLATABLE BOAT SHIPPING CONTAINER (8') VAN VA2265	7-106
23' INFLATABLE BOAT WB0732	7-108
70-HP, 4-STROKE OUTBOARD MOTOR MT0045	7-108B
70-HP OUTBOARD MOTOR MT0942	
VHF MARINE MOBILE RADIO (VOYAGER, 76-CHANNEL) RA1830	7-108F
VHF MARINE MOBILE RADIO (ICOM, 58-CHANNEL) RA1831	
23' INFLATABLE BOAT TOOL BOX TL0060	7-108L
FIRE BOOM SYSTEM P20600	7-109
19-CFM DIESEL AIR COMPRESSOR AC0505	7-112
42" FIRE BOOM BM0730	
BOOM TRAYS WITH BOOM BM0731	7-118
USS-42 OIL CONTAINMENT BOOM BM0738	
PORTABLE FIRE MONITOR W/FOLDING LEGS FM0010	7-124
FLARE TYPE IGNITOR IG0010	
2 1/2" FIRE PUMP PU2130	
ANCILLARY SAFETY KIT PU2131	7-132
VESSEL SKIMMER SYSTEM P16400	
CLASS V 36-FOOT SORBENT BELT SKIMMER SK0721	7-138
CB MARINE MOBILE RADIO RA1709	
VHF MARINE MOBILE RADIO (VOYAGER, 76-CHANNEL) RA1830	
VHF MARINE MOBILE RADIO (ICOM, 58-CHANNEL) RA1831	7-146
OIL BOOM ROLLER RO0501	
36' SKIMMER SK0721 TOOL BOX TL0025	7-146F
HYDRAULIC PRESSURE WASHER WA0700	7-146H
OIL CONTAINMENT BOOM, MODEL USS-42 BM0738	
USS-42/USS-42HB BOOM STORAGE PALLET BM0876	7-146N
RAPID DEPLOYMENT SKIMMER SYSTEM P16100	7-147
36' SORBENT BELT OIL SKIMMER VESSEL SK0711	7-152
CB MARINE MOBILE RADIO RA1709	
VHF MARINE MOBILE RADIO (VOYAGER, 76-CHANNEL) RA1830	7-158
VHF MARINE MOBILE RADIO (ICOM, 58-CHANNEL) RA1831	
OIL BOOM ROLLER RO0501	7-164
36' MODIFIED SKIMMER TOOL BOX TL0020	7-166
HYDRAULIC PRESSURE WASHER WA0700	7-168

RACK SYSTEM FOR SK0711 SK0712	7-170
AIR COMPRESSOR AC0501	
PORTABLE ELECTRIC BLOWER BL0403	7-172D
USS-42 OIL CONTAINMENT BOOM BM0738	
USS-42/USS-42HB BOOM STORAGE PALLET BM0876	
DRACONE MARKER BUOY BU0023	
5' X 5' X 12" MACHINERY CONTAINMENT POOL CP3000	
15-HP OUTBOARD MOTOR MT0940	
BLADDER REPAIR KIT OB0801	
26K-GALLON SPILL RECOVERY BLADDER OB0809	
16' POLYESTER ROUNDSLING SL0012	
15' INFLATABLE WORKBOAT WB0717	
VESSEL OF OPPORTUNITY SKIMMER SYSTEM P16300	7-173
DESTROIL OIL SKIMMER VAN VA0930	7-178
OIL CONTAINMENT BOOM BM0819	
10' X 6' X 12" MACHINERY CONTAINMENT POOL CP3010	7-182
VOSS OUTRIGGER ASSEMBLY OA0010	7-184
HOSE REEL ASSEMBLY PU0804	7-186
WEIR-TYPE DESTROIL OIL SKIMMER SK0800	7-188
SHIPPING CONFIGURATION FOR WEIR-TYPE DESTROIL OIL SKIMMER SK0800	7-188
HYDRAULIC POWER UNIT SK0801	
SHIPPING CONFIGURATION FOR HYDRAULIC POWER UNIT SK0801	
16' POLYESTER ROUNDSLING SL0012	7-196
DESTROIL SKIMMER SYSTEM TOOL BOX TL0019	7-198
HYDRAULIC PRESSURE WASHER WA0700.	7-200
DESTROIL HYDRAULIC PRESSURE WASHER WA0808	7-202
CLASS XI SKIMMER SYSTEM VAN VA0924 (VAN 1 OF 2)	
CLASS XI SORBENT BELT OIL SKIMMER SK0924	
16' POLYESTER ROUNDSLING SL0012	7-204D
CLASS XI SKIMMER SYSTEM VAN VA0925 (VAN 2 0F 2)	7-204F
10' X 6' X 12" MACHINERY CONTAINMENT POOL CP3010	7-204H
VOSS OUTRIGGER ASSEMBLY OA0010	7-204J
HYDRAULIC POWER UNIT PW0924	7-204L
16' POLYESTER ROUNDSLING SL0012	
CLASS XI SKIMMER SYSTEM TOOL BOX TL0018	7-204R
40' KNUCKLE BOOM PORTABLE HYDRAULIC CRANE CR0040	7-204T
RIGGING BOX FOR CR0040	7-204V
DIGITAL TENSION METER SE2108	7-204Z
TOOL BOX FOR CR0040 CRANE TL0021	
HIGH SPEED CURRENT BUSTER SKIMMER SYSTEM VAN VA0935	7-204AD
TWO-CYCLE GAS-POWERED PORTABLE BLOWER BL0025	7 - 204AF
5' X 5' X 12" MACHINERY CONTAINMENT POOL CP3000	7-204AH

10' X 6' X 12" MACHINERY CONTAINMENT POOL CP3010	7-204AJ
VOSS OUTRIGGER ASSEMBLY OA0010	7-204AL
2-INCH PERISTALTIC PUMP PU0300	7-204AN
HYDRAULIC POWER UNIT PW0050	7-204AP
POWER PACK PW0055	
HIGH SPEED CURRENT BUSTER REEL RL0051	7-204AX
OIL CONTAINMENT BOOM BM0760	7-204AZ
HIGH SPEED CURRENT BUSTER SKIMMER SK0050	7-204BB
MINIMAX 12 SKIMMER SK0055	7-204BF
LWS-50 WEIR SKIMMER SK0056	7-204BH
2" SKIM-PAK SK0620	7-204BL
16' POLYESTER ROUNDSLING SL0012	
HIGH SPEED CURRENT BUSTER SKIMMER TOOL BOX TL0026	
HYDRAULIC PRESSURE WASHER WA0700	7-204BR
ARCTIC OIL RECOVERY SYSTEM P16500	
ARCTIC OIL RECOVERY SYSTEM VAN (VAN 1 OF 2) VA1650	7-206E
16' POLYESTER ROUNDSLING SL0012	
ARCTIC OIL RECOVER SYSTEM VAN TOOL BOX TL0016	7-206J
BOBCAT LOADER VEHICLE VE0040	
ARCTIC OIL RECOVERY SYSTEM VAN (VAN 2 OF 2) VA1651	
5' X 5' X 12" MACHINERY CONTAINMENT POOL CP3000	
10' X 6' X 12" MACHINERY CONTAINMENT POOL CP3010	
PORTABLE MARINE CRANE CR0015	7-206V
36" CHAIN SAW CS0010	
HYDRAULIC POWER UNIT PW0051	
POWER PACK PW0056	7-206AF
LORI MINI SKIMMER SK0020	
MOVING INCLINED BELT SKIMMER SK0030	
ANCILLARY KIT FOR SK0030	
SEAMOP 2060 SKIMMER SK0790	
SPARE PARTS KIT FOR SEAMOP SKIMMER SK0971	7-206AZ
RO-VAC MKII SKIMMER SK0980	
16' POLYESTER ROUNDSLING SL0012	7 - 206BF
ARCTIC OIL RECOVERY VAN (VA1651) TOOLBOX	7-206ВН
ROPE MOP SKIMMER SYSTEM P16600	7-207
36-INCH ROPE MOP SKIMMER SK0723	7-210
MOORING BUOY BU0010	7-214
ANCILLARY SET FOR SK0723 SKIMMER SK0724	
6" HYDRAULIC SUBMERSIBLE PUMP SYSTEM P17100	7-219
ANCILLARY SET PU0281	7-224

CONTAINMENT POOL CP3000	7-228
6" HYDRAULIC SUBMERSIBLE PUMP PU0280	7-230
POL PUMP SYSTEM TOOL BOX TL0017	7-234
5000-LB HYDRAULIC POWER WINCH WN0280	7-236
6000-LB HYDRAULIC WINCH WN0281	7-238
HYDRAULIC FLOW CONTROL BLOCK PU0282	
TRIPOD PU0284	
CONTAINMENT POOL CP3010	7-244
HOSE REEL ASSEMBLY PU0283	
MOD 6 HYDRAULIC POWER UNIT PW0045	7-244D
SPARE PARTS KIT PW0046	7-244Н
2-INCH TO 6-INCH SUBMERSIBLE HYDRAULIC PUMPING SYSTEM P17200	7-244G
2" TO 6" SUBMERSIBLE HYDRAULIC PUMPING SYSTEM VAN VA0280	
10' X 6' X 12" MACHINERY CONTAINMENT POOL CP3010	7-244N
1/2-INCH HYDRAULIC DRILL DR0010	
HEAVY DUTY, LIGHTWEIGHT HOT TAP KIT HT0007	7-244R
HEAVY DUTY, LIGHTWEIGHT HOT TAP HT0006	
UNDERWATER HYDRAULIC DRILL PRESS KIT KT0050	7-244X
1/2-INCH UNDERWATER HYDRAULIC DRILL PRESS DR0011	7-244Z
TRIPOD (POL) PU0284	7-244AB
2" PERISTALTIC PUMP PU0300	
4-INCH HYDRAULIC SUBMERSIBLE PUMP PU0305	7-244AF
CONTROL BLOCK FOR 4" HYDRAULIC PUMP PU0305, PRIMARY PU0306	
CONTROL BLOCK FOR 4" HYDRAULIC PUMP PU0305, SECONDARY PU0307	
6-INCH HYDRAULIC SUBMERSIBLE PUMP PU0310	7-244AN
CONTROL BLOCK FOR 6" HYDRAULIC PUMP PU0310 PU0311	
ANCILLARY PALLET PU0832	
5' X 5' X 12" MACHINERY CONTAINMENT POOL CP3000	7-244AX
2-INCH HYDRAULIC SUBMERSIBLE PUMP PU0830	
2" HYDRAULICK TRASH AND SLURRY PUMP PU0835	7 -2 44BC
CONTROL BLOCK FOR 2" HYDRAULIC PUMPS PU0830 AND PU0835 PU0831	7-244BF
MOD 9 HYDRAULIC POWER UNIT PW0020	7-244BH
DOP-160 PUMP PU0840	7-244BL
HEAVY OIL TRANSFER PUMP (DOP-250) PU0851	7-244BP
2-INCH PNEUMATIC DIAPHAGM PUMP PU2105	7-244BT
SPARE PARTS KIT PW0021	7-244BX
MOD 8 HYDRAULIC POWER UNIT PW0200B	7-244BZ
SPARE PARTS KIT PW0206	7-244CB
16' POLYESTER ROUNDSLING SL0012	
120-GALLON DIESEL FUEL TANK TK0045	7-244CF
2" TO 6" SUBMERSIBLE HYDRAULIC SYSTEM TOOL BOX TL0023	7-244CH
6000-POUND HYDRAULIC WINCH WN0281	

VISCOUS OIL TRANSFER SYSTEM P13200	7-245
ANCILLARY SET FOR PU08541 PUMP PU0854	
5' X 5' X 12" MACHINERY CONTAINMENT POOL CP3000	
10' X 6' X 12" MACHINERY CONTAINMENT POOL CP3010	
HEAVY OIL TRANSFER PUMP PU0851	
HYDRAULIC FLOW CONTROL BLOCK PU0852	7-250J
HYDRAULIC FLOW CONTROL METER PU0853	
MOD 6 HYDRAULIC POWER UNIT PW0045	
SPARE PARTS KIT FOR PW0045 POWER UNIT PW0046	7-250R
BOARDING KIT P02100	
PERSONAL PASSPORT ALARM AL0200	7-254
BREATHING APPARATUS BA0021	7-256
BOARDING KIT BO0543	
VHF WALKIE-TALKIE RADIO RA1731	7-258D
NOISE REDUCTION HEADSET RA1732	7-258F
16' POLYESTER ROUNDSLING SL0012	
PETROLEUM & CHEMICAL ELECTRONIC GAUGING TAPE TA0010	7-258J
OIL TANKER TOOL BOX TL0080	
INFLATABLE BOAT, 9' WB0010	7-258N
PORTABLE FIREFIGHTING SYSTEM P07100	
PORTABLE FIREFIGHTING SYSTEM VAN VA0520	
3000-GPM CENTRIFUGAL PUMP FF0500	
2" CENTRIFUGAL PUMP PU2110	7-268
16' POLYESTER ROUNDSLING SL0012	7-272
OSFS RIGGING BASKET FF0501	
350-GALLON FUEL STORAGE TANK TK0040	7-276
HOT TAP SYSTEM P10100	7-287
HOT TAP VAN VA0736A	7-292
HVAC UNIT W/SLEEVE AC2001	
10' X 6' X 12" MACHINERY CONTAINMENT POOL CP3010	
1/2-INCH HYDRAULIC DRILL DR0010	7-300
STUD GUN GU0120	7-302
HOSE REEL HS0137	
HEAVY DUTY, LIGHTWEIGHT HOT TAP HT0006	7-302D
HOT TAP MACHINE MC0110	7-302F
MOD 2 HYDRAULIC POWER UNIT PW0108	
FLUKE 87 MULTIMETER SE0853	
16' POLYESTER ROUNDSLING SL0012	
HYDRAULIC GRINER TL1000	
HYDRAULIC IMPACT WRENCH TL1010	7-302R

PNEUMATIC FENDER SYSTEM (10' X 50') P06100	7-303
LOW PRESSURE FENDER SYSTEM VAN VA2221	7-306
PNEUMATIC SHIP FENDER FN2071	7-308
16' POLYESTER ROUNDSLING SL0012	7-310
LOW PRESSURE FENDER SYSTEM P06200	7-311
LOW PRESSURE FENDER FN2072	
MODULAR BARGE SYSTEM P06400	7-317
24' MODULAR BARGE BA0005	
ROV LIGHTERING SYSTEM P10200	7-319
COMMAND TRAILER P19400	7-321
40' COMMAND TRAILER VA0719	
5' X 5' X 12" MACHINERY CONTAINMENT POOL CP3000	7-330
12-KW GENERATOR GE0406	7-332
CB MARINE MOBILE RADIO RA1709	7-334
VHF MARINE MOBILE RADIO RA1830	
VA0718/VA0719 COMMAND TRAILER TOOL BOX TL0040	7-338
COMMAND VAN P19300	7-345
COMMAND VAN VA0727A/B	7-350
HVAC UNIT W/SLEEVE AC2001	7-352
CB MARINE MOBILE RADIO RA1709	7-354
MARINE MOBILE VHF RADIO, VOYAGER (76-CHANNEL) RA1830	7-356
VHF MARINE MOBILE RADIO RA1831	7-356B
16' POLYESTER ROUNDSLING SL0012	7-356F
20' COMMAND VAN TOOL BOX TL0030	7-356Н
RIGGING VAN P19600	7-357
RIGGING VAN VA0010	7-362
HVAC UNIT W/SLEEVE AC2001	7-364
6" SNATCH BLOCK BK2015	7-366
6" SNATCH BLOCK BK2016	
24" x 36" NAVY-TYPE SHIP FENDER FN2028	7-368C.1
QUICK-RELEASE HOOK HK2000	7-368D
RELEASE-A-MATIC HOOK HK2001	7-368F
15-HP, 4-STROKE OUTBOARD MOTOR MT0016	7-368H
40-HP, 4-STROKE OUTBOARD MOTOR MT0040	7-368J
15-HP OUTBOARD MOTOR MT0940	7-368L
35-HP OUTBOARD MOTOR MT0944	7-368N
16' POLYESTER ROUNDSLING SL0012	7-368P
ROUNDSLING BRIDLE SL0382	7-368R

5/8-INCH CARPENTER STOPPER ST0010	7-368T
5/8-INCH WIRE ROPE BRIDLE ST0012	7-368V
16' INFLATABLE BOAT WB0716	7-368X
15' INFLATABLE BOAT WB0717	7-368Z
SHOP VAN SYSTEM P19700	7-369
WORKSHOP VAN VA0508	7-372
175-CFM AIR COMPRESSOR AC0330	7-374
HVAC UNIT W/ SLEEVE AC2001	7-378
CONTAINMENT POOL CP3010	
ELECTRICAL DISTRIBUTION PANEL GE0001	
40-KW DIESEL GENERATOR GE0550	
16' POLYESTER ROUNDSLING SL0012	7-386D
PERSONNEL BUNK VAN P19500	7-387
BERTHING VAN VA0734	
HVAC UNIT W/SLEEVE AC2001	
16' POLYESTER ROUNDSLING SL0012	7-392D
SOLAS SHIPBOARD PERSONNEL BUNK VAN P19550	
SOLAS SHIPBOARD PERSONNEL BUNK VAN VA0735	
16' POLYESTER ROUNDSLING SL0012	7-392N
COMMUNICATIONS SYSTEM (LAND-BASED) P05100	
PORTABLE SATCOM UNIT PH0923	7-400
PORTABLE SATCOM SYSTEM PH0924	
PORTABLE SATCOM SYSTEM PH0930	
SOLSAT 1 PHONE SYSTEM PH0935	
SATELLITE PHONE PH1730	
ACCESSORY KIT PH1732	
SATELLITE PHONE PH1731	7-410Н
COMMUNICATIONS SYSTEM (SHIPBOARD) P05200	7-411
SATCOM PHONE SYSTEM VAN PH0920	
SATCOM PHONE SYSTEM VAN PH0922	7-418
HVAC UNIT W/SLEEVE AC2001	7-420B
VHF MARINE MOBILE RADIO RA1831	
16' POLYESTER ROUNDSLING SL0012	7-420H
SEA PAK-M PHONE PH0940	7-420J
COMMUNICATIONS SYSTEM (RANGE ENHANCING) P05300	7-421
VHE MAINE RADIO/REPEATER RA0905	7-422R

BEACH TRANSFER SYSTEM P01100	7-423
BEACH TRANSFER VAN VA2113	7-426
16' POLYESTER ROUNDSLINGS SL0012	7-428
BEACH TRANSFER SYSTEM TOOL BOX TL0090	7-430
BEACH TRANSFER TRAILER TR2114	7-432
FARM TYPE TRACTOR TT2009	7-434
ALL-TERRAIN VEHICLE (ATV) VE2110	7-436
CLEANING SYSTEM VAN P19200	7-437
CLEANING VAN VA2119A/B	
5' X 5' X 12" MACHINERY CLEANING POOL CP3000	7-444
14' X 14' X 18" CONTAINMENT POOL CP3025	7-446
STEAM CLEANER CS0507	
HOSE CLEANING MANIFOLD PALLET HC0001 WITH 4-INCH CLEANING ADAPTER	7-452
PIG LAUNCHER HOSE CLEANING PALLET HC0002	7-454
PIG CATCHER HC0004	7-456
CLEANING POOL PC0814	7-458
CLEANING POOL PC0815	7-460
CLEANING POOL PC0830	
30' X 70' CLEANING POOL PC0831	7-464
3" DIAPHRAGM PUMP PU2108	
16' POLYESTER ROUNDSLING SL0012	7-464F
2500-GALLON FAST ERECT TANK TK0020	. 7-464H
SALT WATER PRESSURE WASHER WA0820	. 7-464K
SUPPLY VAN SYSTEM P19800	7-465
SUPPLY VAN VA0740	
GM 4-53 DIESEL ENGINE EN0015	7-470
16' POLYESTER ROUNDSLING SL0012	7 - 470B
PERSONNEL TRANSFER BOATS P19900	7-471
24' RIGID HULL INFLATABLE BOAT WB0736	7-476
24' RIGID HULL INFLATABLE BOAT CRADLE BC0736	7-480
GP-30/32/37 FURUNO GPS GP0130	7-482
CB MARINE MOBILE RADIO RA1709	
VHF MARINE MOBILE RADIO (VOYAGER, 76-CHANNEL) RA1830	7-486
MKII LCD RADAR RD0010	
24' RIGID HULL INFLATABLE BOAT TOOL BOX TL0065	7-490
22.5' RIGID HULL INFLATABLE BOAT W/ENGINE WB0740	7-492
22.5' RIGID HULL INFLATABLE BOAT CRADLE BC0740	7-496
ROUNDSLING BRIDLE SL0386	
VHF MARINE MOBILE RADIO RA1831	7-500
ROUNDSLING BRIDLE SL0384	7-502B
22.5' RIGID HULL INFLATABLE BOAT TOOL BOX TL0075	7-502D

22' COMMAND BOAT WB0941	7-502F
VHF MARINE MOBILE RADIO RA1831	7-502H
22' COMMAND BOAT TOOL BOX TL0070	
22' COMMAND BOAT TRAILER TR0951	
GPS RESPONSE ASSET TRACKING SYSTEM P20100	7-503
GPS TRACKING BASE STATION GP0100	7-508
SUPPORT CASE GP0105	
MOBILE TRACKING STATION GP0110	7-516
OVER-THE-AIR VIDEO KIT GP0111	7-516B
HELO GPS MOBILE TRACKING STATION GP0115	7-516F
HOSE VAN SYSTEM P20200	
HOSE SUPPLY AND SUPPORT VAN VA0120	7-518B
RAPID PERSONNEL/EQUIPMENT TRANSFER SYSTEM P20000	
36-FOOT HOVERCRAFT WORKBOAT WB0975	
VHF MARINE MOBILE RADIO RA1831	
RADAR MODEL 1730 RD0001	
36' HOVERCRAFT TOOL BOX TL0035	7-524J
FLOATING HOSE SYSTEM P08100	
FLOATING HOSE SYSTEM VAN VA2150 (VAN 1 OF 4)	
19 CFM AIR COMPRESSOR AC0501	7-530
HVAC UNIT W/SLEEVE AC2001	
5' X 5' X 12" MACHINERY CONTAINMENT POOL CP3000	
9-KW GENERATOR GE0470	
PIG LAUNCHER FOR FLOATING HOSE SYSTEM HC0005	
PIG CATCHER FOR FLOATING HOSE SYSTEM HC0006	
12' X 12' CLEANING POOL PC0816	
MOD 9 HYDRAULIC POWER UNIT PW0020	
16' POLYESTER ROUNDSLING SL0012	
FLOATING HOSE SYSTEM VAN VA2151 (VAN 2 OF 4)	
FLOATING HOSE SYSTEM VAN VA2152 (VAN 3 OF 4)	7-548H
FLOATING HOSE REEL RL0031	7-548J
NITROL SP LAYFLAT HOSE HS0822	7-548L
FLOATING HOSE SYSTEM VAN VA2153 (VAN 4 OF 4)	
300 CFM AIR COMPRESSOR AC0700	7-548P
10' X 6' X 12" MACHINERY CONTAINMENT POOL CP3010	7-548R
FLOATING HOSE REEL RL0031	7-548T
NITROL SP LAYFLAT HOSE HS0822	
136K-GALLON OIL STORAGE BLADDER P14100	7-549
PORTABLE ELECTRIC BLOWER BL0403	7-552

DRACONE MARKER BUOY BU0023	7-554
OIL STORAGE BLADDER OB0800	7-554B
BLADDER REPAIR KIT OB0801	
290K-GALLON OIL STORAGE BLADDER P14200	7-555
PORTABLE ELECTRIC BLOWER BL0403	
DRACONE MARKER BUOY BU0023	
BLADDER REPAIR KIT OB0801	7-560B
OIL STORAGE BLADDER OB0830	
MATERIAL TRANSFER SYSTEM P11100	7-561
OIL BLADDER TRANSFER SYSTEM P20300	
OIL BLADDER TRANSFER SYSTEM VAN VA2290	
19-CFM AIR COMPRESSOR AC0501	7-564D
VERTICAL AXIS HYDRAULIC CAPSTAN CP0011	7-564H
PORTABLE MARINE CRANE CR0010	7-564J
6.2-KW DIESEL GENERATOR GE0430	
CENTRIFUGAL SCREW 4-INCH HYDRAULIC SUBMERSIBLE PUMP PU0305	7-564R
HEAVY OIL TRANSFER PUMP PU0851	7-564V
MOD 8 HYDRAULIC POWER UNIT PW0200B	7-564Z
SPARE PARTS KIT PW0206	7-564AB
16' POLYESTER ROUNDLSING SL0012	7-564AD
OIL BLADDER TRANSFER SYSTEM TOOL BOX TL0024	7-564AF
HYDRAULIC PRESSURE WASHER WA0700	7-564AH
DEBRIS HANDLING SYSTEM P20400	7-565
DEBRIS HANDLING SYSTEM VAN VA2400	7-566B
2.5-KW GAS GENERATOR GE0425	7-566D
1750-WATT INVERTER IN0001	
4-STROKE, 130-HP OUTBOARD MOTOR MT0130	7-566Н
MARINE MOBILE CB RADIO RA1709	7-566J
ICOM VHF MARINE MOBILE RADIO RA1831	7 - 566L
16' POLYESTER ROUNDSLING SL0012	
18', 4-LEG POLYESTER ROUNDSLING BRIDLE SL0399	7-566R
32' RIGID HULL INFLATABLE BOAT WB0750	7-566T
VACUUM PUMP/SKIMMER SYSTEM P18100	7-567
VACUUM PUMP/SKIMMER SYSTEM VAN (VAN 1 OF 2) VA2250	
HVAC UNIT W/SLEEVE AC2001	7-572
16' POLYESTER ROUNDSLING SL0011	7-574
VACUUM PUMP/SKIMMER SYSTEM VAN (VAN 2 OF 2) VA2251	7-576
10' X 20' X 12" MACHINERY CONTAINMENT POOL	
2" SKIM-PAK SK0620	7-580

MINI-MAX HARBOR SKIMMER SK0900	7-582
TERMITE SKIMMER SK0905	7-586
HIGH PRESSURE, THREE-TANK, VACUUM SYSTEM VS0010	7-590
VACUUM PUMP/SKIMMER SYSTEM VAN VA2255	7-590D
VACUUM PUMP VS8100	
INCINERATOR SYSTEM P20500	7-591
OIL/WATER SEPARATION SYSTEM P12100	
GRAVITY PLATE OIL/WATER SEPARATOR SR0815	
EXTERNAL OIL/WATER SEPARATOR HEATER SR0820	7-598
STEAM GENERATORS P12200	
STEAM GENERATOR SYSTEM VAN VA2500	
5' x 5' x 12" MACHINERY CONTAINMENT POOL CP3000	7-606
10' x 6' x 12" MACHINERY CONTAINMENT POOL CP3010	
25-KW DIESEL GENERATOR GE0440	7-610
STEAM GENERATOR SG0010	
SUBMERSIBLE HEATING COIL SG0011	7-610H
ANCILLARY BASKET SG0012	7-610J
WATER TREATMENT SKID PACKAGE SG0015	7-610N
16' POLYESTER ROUNDSLING SL0012	
STEAM GENERATOR SYSTEM VAN TOOL BOX TL0085	7-610R
23.1/26/50K-GALLON SPILL RECOVERY BLADDER SYSTEM P14300	
DRACONE MARKER BUOY BU0023	
BLADDER REPAIR KIT OB0801	
26K-GALLON SPILL RECOVERY BLADDER OB0809	
23.1K-GALLON SPILL RECOVERY BLADDER OB0810	
50K-GALLON SPILL RECOVERY BLADDER OB0820	7-618D
SALVAGE SUPPORT SKIMMER SYSTEM P16200	7-619
SALVAGE SUPPORT SKIMMER SYSTEM VAN VA2220	
5' X 5' X 12" CONTAINMENT POOL CP3000	
16' X 6' X 18" MACHINERY CONTAINMENT POOL CP3030	
SKIM-PAK KIT KT0600	
2-INCH PERISTALTIC PUMP PU0300	
1 1/2-INCH 2000-GPH SKIM-PAK SK0600	
2-INCH 4000-GPH SKIM-PAK SK0620.	
OIL CONTAINMENT BOOM KIT KT0601	
USS-26 AND USS-26SB BOOM STORAGE PALLET BM0875	7-640
26" X 55' MODEL USS-26 OIL CONTAINMENT BOOM BM0760	7-642
26" X 25' MODEL USS-26SB OIL CONTAINMENT BOOM BM0765	7-646
OIL MOP KIT KT0602	7-650

OIL MOB SKIMMER SK0730	7-652
2-INCH DIAPHRAGM PUMP PU2109	7-652B
15' INFLATABLE BOAT KIT KT0603	7-652D
15' INFLATABLE BOAT KIT WB0717	7-652F
500-GALLON OIL STORAGE BLADDER KIT KT0604	7-652Н
500-GALLON OIL STORAGE BLADDER OB0805	7-652J
15-HP, 4-STROKE OUTBOARD MOTOR MT0015	7-652L
MINI-MAX HARBOR SKIMMER SK0900	
14' 6" POLYESTER ROUNDSLING SL0011	
DISPERSANT SPRAY UNIT SYSTEM P16800	7-653
DISPERSANT SPRAY UNIT	7-656
INLAND SUPPORT SKIMMER SYSTEM P16700	7-675
INLAND SUPPORT SKIMMER SYSTEM VAN VA0800	7-680
HVAC UNIT W/SLEEVE AC2001	
OIL STORAGE BLADDER INFLATION BLOWER BL0010	
RADIO SINGLE BATTERY CHARGER CB1705	
5' X 5' X 12" MACHINERY CONTAINMENT POOL CP3000	7-688
5-KW DIESEL GENERATOR GE0465	
9-KW GENERATOR GE0470	7-692
DIESEL HEATER HE0500	
1500-GALLON RUBBER STORAGE BLADDER OB0840	7-696
CLEANING POOL PC0820	
2" PERISTALTIC DIESEL PUMP PU0300	
110-V AC ELECTRIC BARREL PUMP PU2050	
3" DIAPHRAGM DIESEL PUMP PU2108	
2" DIAPHRAGM DIESEL PUMP PU2109	
1 1/2" PORTABLE GAS FIRE PUMP PU2120	
55-CHANNEL WALK/TALK VHF RADIO RA1740	
STORAGE SHELTER SC0090	
1 1/2", 2000-GPH SKIM-PAK SK0600	7-720
2", 4000-GPH SKIM-PAK SK0620	7-722
OIL MOP SKIMMER SK0734	
DRUM TYPE OIL SKIMMER SK0825 PICTURED	7-726
HYDRAULIC POWER UNIT SK0826 PICTURED	7-728
HARBOR SKIMMER SK0900	7-730
16' POLYESTER ROUNDSLING SL0012	
SALT WATER PRESSURE WASHER WA0820	
9' INFLATABLE BOAT WB0010	
INLAND SUPPORT SKIMMER SYSTEM VAN VA0801	
24" X 50' HARBOR OIL CONTAINMENT BOOM BM0736	7-732L
DVDEV.	D 10 DV 4

FOREWORD

The Emergency Ship Salvage Material (ESSM) Pollution Catalog is the basic reference for all major items of ESSM pollution response equipment. The system description page gives a brief description of what each system is used for, what each system does, and what equipment constitutes each system. The item data sheets include descriptions, photographs, physical characteristics as well as information on ancillary equipment and reference data for each major ESSM-numbered piece of equipment. This information is for fleet and shoreside Navy On-Scene-Coordinators (NOSCs), and should be of interest to federal OSCs, state, and local planning officials for major pollution operations that present problems beyond the experience of most pre-designated NOSCs and their staff. SUPSALV can provide much of the needed experience and support for this type of operation and can recommend other sources of expertise.

The ESSM catalog lists and describes ESSM system facilities and functional responsibilities at all levels. This new edition incorporates hardware improvements and recommended changes from the Navy pollution community. Suggestions for future improvements to the technical content are encouraged. SUPSALV is continually working to upgrade the Navy's pollution related response capability. NOSCs and other federal agencies are encouraged to contact SUPSALV to recommend improvements or additions to our response system, or comment on this document at the following address:

Naval Sea Systems Command 1333 Isaac Hull Ave. SE Washington Navy Yard, DC 20376

Telephone: (202) 781-1070 Fax: (202) 781-4855 Downloaded from http://www.everyspec.com

CHAPTER 1

EMERGENCY SHIP SALVAGE MATERIAL

SECTION 1.1

SYSTEM DESCRIPTION

1.1.1 PURPOSE AND FUNCTION

The Emergency Ship Salvage Material (ESSM) System is a combination of bases and complexes, which provide ship salvage, pollution control, and ocean engineering equipment on an emergency basis. Bases are located within the Continental United States and provide a complete inventory of ESSM equipment; complexes are located outside CONUS and carry limited amounts of ship salvage and pollution control material.

1.1.2 BASES

There are two ESSM bases located within the Continental United States. Both bases carry essentially the same allowance of material, which includes a complete inventory of ship salvage, pollution control, and ocean engineering equipment. All material is stored and maintained in ready-for-issue condition by a commercially contracted manager and support personnel. The Supervisor of Salvage (00C) controls all issues of ESSM base material. CONUS base locations are:

<u>Virginia</u>	<u>California</u>
-----------------	-------------------

ESSM Base ESSM Base

Cheatham Annex, Warehouse 12 NBVC, Patterson Road, Bldg. 1163

Williamsburg, VA 23185 Port Hueneme, CA 93043

Telephone: (757) 637-9000 Telephone: (805) 982-4463/2165/2232/2164

Fax: (757) 637-9089 Fax: (805) 982-4459

DSN: 953-9000 DSN: 551-4463

1.1.3 COMPLEXES

Presently, there are six ESSM Complexes located outside the Continental United States:

<u>Alaska</u> <u>Hawaii</u>

ESSM Base SUPSALV ESSM Base

Bldg. 800, 1st and Warehouse Bldg. 54, Bishop Point Fort Richardson, AK 99505 Pearl Harbor, HI 96860

Telephone: (907) 384-2963 Telephone: (808) 423-7100

(907) 384-2968 (808) 423-7055

Fax: (907) 384-2969 Fax: (808) 423-6535

1.1.3 COMPLEXES (Continued)

<u>Italy</u> <u>Bahrain</u>

ESSM Complex
M/F Commanding Officer

ESSM Complex
Attn: SRU Bahrain

UIC WSCM99, Depot Warehouse 3 Banz Warehouse, #1 Juffair Ave.

Via Aurelia, Leghorne Army Depot Manama, Bahrain

Livorno, Italy 56018 Telephone: 011-973-724441

Telephone:011-39-50-547233/547893011-973-724442Fax:011-39-50-547868011-973-724443DSN:663-7233011-973-724445

Fax: 011-973-724447 DSN: 318-439-724442

Singapore Japan

ESSM Complex ESSM Complex

PSA Sembawang Terminal, Bldg. 7-A

Attn: U.S. Naval Repair Facility

Singapore 759657 Tategami-Cho Bldg 141 Telephone: 011-65-6750-2626 Sasebo Naval Base

Fax: 011-65-6750-2450 Sasebo, Japan

Telephone: 011-81-956-24-6111

ext. 3265/3212

Fax: 011-81-956-24-7723

These complexes are established to provide an ESSM presence in overseas areas. Their inventories include limited quantities of ship salvage material and pollution control equipment, intended for short-term emergency use. This material is stored in ready-for-issue condition and in a low level of preservation. Equipment is not afforded the caretaker status associated with ESSM bases in CONUS. The Supervisor of Salvage (00C) controls all issuance of ESSM complex material.

SECTION 1.2

SYSTEM ADMINISTRATION

1.2.1 SCOPE

This section describes responsibilities for the administration of the total ESSM System.

1.2.2 SYSTEM ADMINISTRATION

The focal point for all matters pertaining to the ESSM System is the office of the Supervisor of Salvage (00C) within the Naval Sea Systems Command (NAVSEA).

Department of the Navy Naval Sea Systems Command (SEA-00C) 1333 Isaac Hull Ave. Washington Navy Yard, DC 20376-1070

Telephone: (202) 781-1070 Fax: (202) 781-4855

DSN: 326-1070

NAVSEA Duty Officer: (202) 781-3889

SUPSALV's limited quantities of ship salvage material and pollution control equipment are intended for short-term emergency use only. This material is stored in ready-for-issue condition and in a low level of preservation. Equipment is not afforded the caretaker status associated with ESSM bases in CONUS. The Supervisor of Salvage (00C) controls all issuance of ESSM complex material. Operations Branch serves as a clearing point for all ESSM inquiries and requests. Determination of what assistance is required rests with their evaluation of a given situation. Assistance may be provided through recommendations or the actual provision of specific ESSM items, based on cumulative case experience. Final determination and issuing authority for ESSM requests remains with the Supervisor of Salvage or his designated deputy.

1.2.2.1 ESSM MANAGER

A commercially contracted ESSM Warehousing Manager is directly responsible to the Supervisor of Salvage for provision of the following ESSM support services:

- a. Full-time manning and management of ESSM bases.
- b. Periodic maintenance and inventory of equipment stored at ESSM complexes.
- c. Maintaining all ESSM System equipment for immediate deployment and operation.
- d. Providing operators for pollution control equipment when it is deployed.

SECTION 1.3

SYSTEM OPERATION

1.3.1 SCOPE

This section describes specific procedures, responsibilities, and fiscal requirements for activities desiring to utilize the ESSM System.

1.3.2 SYSTEM OPERATION

1.3.3 GENERAL

Materials in ESSM bases and ESSM complexes are contingent items for emergency use only, as required by the requesting activity. The materials are not intended for stock replenishment of salvage ships and stations for their routine operations. Similarly, individual subcomponents cannot be drawn from bases or complexes. Only total units with all necessary accessories will be authorized for issue. Prerequisites for obtaining ESSM equipment differ with equipment categories and requesting activities. Equipment categories are:

- * Ship Salvage Material
- * Pollution Control Material
- * Underwater Ship Husbandry Material (UWSH)

Technical representatives are available to accompany ship salvage and underwater ship husbandry materials; contractor operators are provided with pollution control equipment. The following paragraphs of this section identify the variable requesting and funding criteria for ESSM.

1.3.4 REQUESTING ACTIVITY CATEGORIES

As stated earlier, ESSM procurement criteria differ for various requesting agencies and, in some cases, with the material requested. Procedure associated with principal requesting activities is summarized below.

1.3.4.1 U.S. NAVY

When additional or specialized equipment is required fleet commanders request ESSM augmentation directly from the Supervisor of Salvage (Operations Branch) for all categories of material.

1.3.4.2 U.S COAST GUARD/FEDERAL AGENCIES

Because of common national responsibilities the Supervisor of Salvage routinely responds to requests for pollution control equipment from the U.S. Coast Guard and also provides material to other military departments and federal agencies. These requests for ESSM equipment are routed via the Chief of Naval Operations (CNO OP641).

1-4 Change A

1.3.4.3 FOREIGN GOVERNMENTS

All assistance to foreign governments, including ESSM requests, are authorized via the U.S. State Department and CNO OPG4.

1.3.4.4 COMMERCIAL

Pollution control assistance to commercial interests in U.S. waters is provided through, and in support of, the U.S. Coast Guard and other federal agencies. The provision of Navy salvage assistance to commercial ships is determined by the Secretary of the Navy. However, ship salvage and ocean engineering materials are made available to commercial contractors through direct leasing agreements with the Supervisor of Salvage. These agreements must be preceded by certification that no similar commercial assets are available.

1.3.5 REQUESTING PROCEDURES/FUNDING REQUIREMENTS

The Supervisor of Salvage provides specific funding information and instruction to all requesting activities.* There are current rental rates for ESSM which will be identified upon request. Also, funding is required to cover equipment mobilization, shipping, and refurbishment costs. Generally, funding for salvage related material is received directly by SUPSALV, while that for pollution related equipment is routed to miscellaneous receipts of the U.S. Treasury. Specific funding documentation required of requesting government activities follows.

*Requests should include ESSM numbers for ease of identification.

1.3.5.1 U.S. NAVY

Naval activities requesting services should provide NAVSEA 00C with a NavCompt Form 2276, Request for Contractual Procurement, in accordance with NAVSEAINST 7300.4 and Navy Comptroller Manual paragraphs 035450-035452.

1.3.5.2 U.S. COAST GUARD/FEDERAL AGENCIES

The U.S. Coast Guard may submit a DD 1149. Requisition and Invoice/Shipping Document, for requested services. Other military departments should provide NAVSEA 00C with a DD Form 448, Military Interdepartmental Purchase Request (MIPR), in accordance with Defense Acquisition Regulation (DAR), article 5-1118. NASA will use NASA Form No. 523. NASA Defense Purchase Request, in accordance with Defense Acquisition Regulation (DAR), article 5-1002. NASA Form 523 will be accepted on a reimbursable basis. Other government agencies outside the Department of Defense requiring services should submit a Letter of Authorization. The letter should include a funding limitation, accounting data, and the intended purpose. Acceptance will be on a reimbursable basis in accordance with NASEAINST 7300.4 and Navy Comptroller Manual paragraphs 035450-035452.

1.3.5.3 FOREIGN GOVERNMENTS

Foreign countries requesting services will be provided a DD Form 1513, Offer and Acceptance, by the cognizant OPNAV code. The applicable country will accept this DD Form 1513 and forward it to OPNAV in accordance with OPNAVINST 4920.7B. Funds will be forwarded to NAVSEA from the Navy International Logistics Control Office (NAVILCO).

1.3.5.4 PERSONNEL ORDERS

Persons arranging for orders to be submitted to NAVSEA00C should ensure that the orders for travel, per diem, and overtime are submitted separately from orders for services, per NAVSEAINST 7300.4. If a NavCompt Form 2276 is submitted for services, a NavCompt Form 2275 should also be submitted for applicable travel, per diem, and overtime. If any other type of document is provided for services, the same type of document should be separately prepared for travel, per diem, and overtime, i.e., when a MIPR is utilized for services, a separate MIPR should be utilized for travel or when a DD 1149 is utilized for services. A separate DD 1149 should be utilized for travel.

1.3.6 THE ESSM CATALOG

This catalog has been compiled to offer a quick and detailed reference on all major items of Emergency Ship Salvage Material. The catalog is divided into separate sections representing each major equipment category: Pollution Control Material and individual item data sheets, which include photographs, physical characteristics, specifications, and information regarding ancillary equipment. The data presented herein does not supersede the data contained in appropriate U.S. Navy and/or manufacturers' operation, maintenance, or technical manuals.

CHAPTER 2

SUPSALV RESPONSIBILITIES

SECTION 2.1

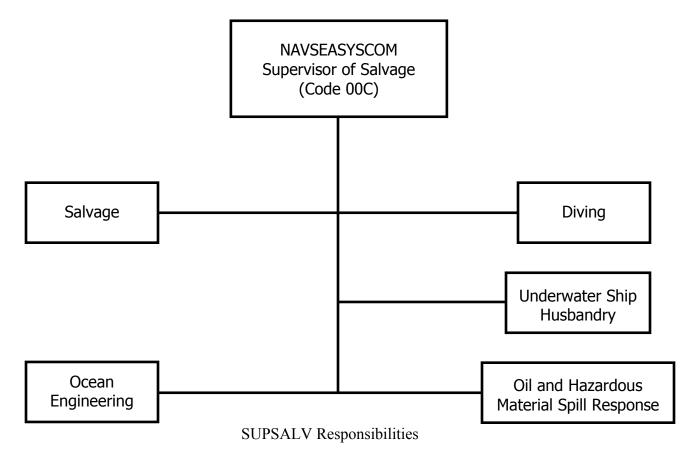
SUPERVISOR OF SALVAGE

2.1.1 The Supervisor of Salvage (SUPSALV) supports Fleet and shoreside commands from his position on the staff of Naval Sea System Command (NAVSEA) in Washington, DC. As shown in figure 1-1, SUPSALV has several distinct responsibilities. SUPSALV provides technical support in the areas of Diving, Salvage, Ocean Engineering, Underwater Ship Husbandry, and Oil and Hazardous Materials Spill Response. This technical support includes the development, testing, and procurement of new equipment and systems; diving system inspection and certification; oil spill contingency planning; and related functions.

In addition to technical support, SUPSALV has operational responsibilities, maintains the capability to augment fleet diving and salvage units, and assists the Naval on Scene Commands/Naval on Scene Commanders (NOSCs/NOSCDRs) in spill response operations. SUPSALV maintains contracts with commercial salvors worldwide to provide emergency salvage services to Navy commands and to other Government agencies, to foreign governments through the U.S. State Department, and, under certain conditions, to the private sector. SUPSALV maintains commercial contracts for the following services on a worldwide basis:

- Marine salvage
- Diving
- Underwater search and recovery
- Underwater ship husbandry (including in-water hull cleaning and repair by divers)
- ROV husbandry and operations
- Emergency Ship Salvage Material (ESSM) base husbandry
- Pollution response operations

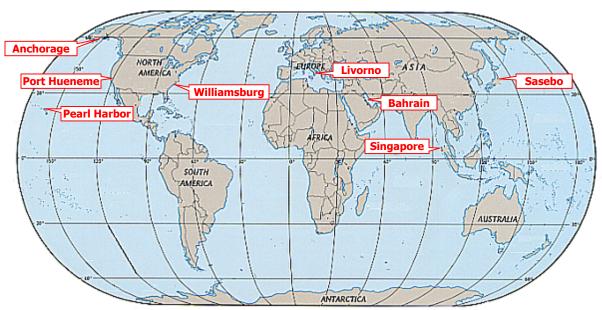
These contracted services are available through SUPSALV on a cost reimbursement basis. Requesting procedures and accounting information are provided in Chapter 4.



SECTION 2.2

EMERGENCY SHIP SALVAGE MATERIAL (ESSM)

2.2.1 SUPSALV operates the ESSM System, through which salvage equipment can be shipped to salvage sites worldwide in support of Fleet or contractor operations. The ESSM bases are located near major Fleet operating areas at the following sites (see Figure 1-2): Williamsburg, Virginia; Port Hueneme, California; Pearl Harbor, Hawaii; Anchorage, Alaska; Livorno, Italy; Sasebo, Japan; Bahrain; and Singapore. An inventory of pumps, compressors, generators, beach gear, and other standard and specialty salvage equipment items is maintained in constant readiness for immediate air or surface shipment to operations sites. Oil spill response equipment is maintained as part of this inventory in all U.S. bases.



Emergency Ship Salvage Material (ESSM) Bases

SECTION 2.3

SUPSALV OFFSHORE SPILL RESPONSE PROGRAM

2.3.1 Because Navy offshore and salvage-related spills occur infrequently but can be very large in volume when they do occur, it is not practical to distribute adequate allowances of SUPSALV offshore spill response equipment to Navy activities worldwide. Instead, SUPSALV retains custody of this equipment and provides the capability to respond rapidly and effectively to any site. Spill response equipment is contractor-maintained at all U.S. ESSM bases as noted above. An equipment inventory is provided in Chapter 5 with detailed descriptions of each system in Chapter 6.

When a large spill occurs, the responsible NOSC/FOSC can request SUPSALV to provide, on a cost reimbursable basis, spill response equipment and operators. The equipment is mobilized from one or more of the ESSM bases for rapid delivery to the spill site, shipped by the most expedient government or commercial mode. A SUPSALV pollution control operations specialist will work with the NOSC or FOSC to coordinate deployment and operation of the SUPSALV equipment. SUPSALV response team personnel proceed to the spill site to operate and maintain the equipment under the direction of the SUPSALV representative. This representative will integrate SUPSALV directly into the on-scene Unified Command System. All response personnel meet Occupational Safety and Health Administration (OSHA) Training Standards as prescribed in Manual for Workplace Standards, 29CFR 1910.120.

Offshore spill response operations are very demanding on both the operators and equipment. To meet these demands, SUPSALV has tried to provide rugged equipment and experienced operators. Exercises are conducted periodically to train SUPSALV and contractor personnel in the most effective operation of the equipment and to test the equipment. These exercises have helped SUPSALV develop and maintain a significant reliable spill response capability.

Downloaded from http://www.everyspec.com

CHAPTER 3

ACCESS TO SUPSALV

SECTION 3.1

EMERGENCY SUPSALV SUPPORT REQUESTS

3.1.1 The SUPSALV pollution control equipment described in this document is immediately available to NOSCs or FOSCs. All equipment is supplied with required operating and maintenance support, on a cost reimburse through the Chief of Naval Operations, Navy Command Center (N312), in Washington, DC. However, an initial call directly to SUPSALV will ensure a more rapid and accurate response.

To request SUPSALV support for emergency response, on-scene technical expertise, or simply advice over the telephone, contact SUPSALV at the commercial or AUTOVON numbers below:

SUPSALV ASSISTANCE

FOR INFORMAL LIAISON AND "HEADS UP" NOTIFICATION:

Working Hours	(202) 607-2758 DSN 326-1070
Non-Working Hours:	(202) 781-3889

(NAVSEA Duty Officer) DSN 326-3889

(The Duty Officer will relay the caller's message to appropriate SUPSALV personnel for a return call.)

FOR OFFICIAL REQUESTS FOR SUPSALV RESPONSE:

24 Hours:	(202) 781-3889
(CNO Duty Captain)	DSN 326-3889

NOTE: Early alert, "heads up" calls to SUPSALV are encouraged, appreciated, and invaluable to the caller even if the extent of the response has not yet been determined.

Non-DOD requests for emergency assistance should be directed through the FOSC. Coast Guard requests can be initiated in accordance with the Navy/Coast Guard interagency agreement, generally through the FOSC. Foreign government requests should be forwarded through the appropriate embassy Defense Liaison Officer (DLO) or Defense Attaché (DA) to the State Department and then to the CNO (N3/5).

Downloaded from http://www.everyspec.com

CHAPTER 4

FUNDING AND COST ACCOUNTING

SECTION 4.1

FUNDING AND COST ACCOUNTING

4.1.1 DOD SPILL

The Navy's inventory of offshore spill response equipment, procured by SUPSALV, is maintained and operated by SUPSALV personnel and contractor personnel within the system. SUPSALV is centrally funded for all equipment storage and maintenance requirements within the ESSM bases. All operational costs for response to Navy spills (including SUPSALV/response team costs) must be funded by the Fleet facility spills. These funding requirements are established in OPNAVINST 5090.1B, Chapters 1-4.

When the NOSC requests SUPSALV assistance in response to a pollution incident (through CNO), he must state that he will reimburse NAVSEA for all SUPSALV operational costs incurred in the incident response. Shortly after SUPSALV mobilization, SUPSALV fiscal representatives will contact the NOSC's fiscal agent to explain and discuss appropriate reimbursement procedures.

4.1.2 NON-DOD SPILL

Funding for a non-government spill response is provided by the National Pollution Fund Center (NPFC). SUPSALV and NPFC have prearranged procedures for the transfer of these funds. When an FOSC requests SUPSALV assistance, a Federal Project Number (FPN) and case officer name for the NPFC should be provided to expedite the transfer procedure.

In addition, a non-DOD response (private RP) will incur equipment rental rate charges as detailed in the Federal Registry. These rates are shown in Chapter 4 but do not apply to DOD response operations.

SUPSALV operational costs include SUPSALV personnel salary, travel, per diem, and overtime; and all response team costs for equipment mobilization, on-scene operation and maintenance, demobilization, and equipment refurbishment. This includes replacement of consumable and repair or replacement of equipment damaged or destroyed while under the operational control of the NOSC/FOSC. Prior to an official NOSC request for SUPSALV assistance, SUPSALV representatives can be reached by telephone to provide a daily cost estimate for response based on the agreed upon level of response (e.g., number of skimmer systems, quantity of boom, personnel requirements, etc.). A sample of these costs are included Chapter 5.

The on-scene SUPSALV representative will present to the NOSC or FOSC daily cost summaries of all expenses incurred as the operation progresses. The daily cost summaries provide the NOSC with information about deployed SUPSALV assets, an accurate estimate of SUPSALV costs incurred to date, and an opportunity to resolve any SUPSALV cost questions in a timely manner.

Downloaded from http://www.everyspec.com

CHAPTER 5

COST ESTIMATES, TRANSPORTATION REQUIREMENTS, AND RENTAL RATES

SECTION 5.1

COST ESTIMATES AND TRANSPORTATION REQUIREMENTS

5.1.1 The following tables show response cost and transportation requirements of operations based on the primary response package, which consists of the minimum equipment required for first response. It should be understood that these are only estimates; rental rates and labor costs are subject to change, and any particular response operation is a unique event, which will require adjustment and refinement of these estimates.

5.1.2 SUPSALV OIL RECOVERY RESPONSE PACKAGES ESTIMATED TRANSPORT REQUIREMENTS AND LABOR COSTS (Personnel travel & per diem costs not included.)

1 SYSTEM (Labor costs are estimated Contractor plus SUPSALV.)

Equipment	Page	Page Qty		Transpo	ortation	12-Hour Shift		Rental	
Equipment	Number	Qıy	Truck		Aircraft		Crew	Labor	Per Day
				C130	C141	C-5			
Vessel Skimmer 36' w/Rack	7-149	1	2				3		\$5990
Boom Handling Boat	7-69	2	1				4		2464
Boom Tend. Boat 19' Inf	7-105	1	1				2		744
Command Van 20'	7-345	1					4		469
Shop Van	7-385	1	1				2		480
Rigging Van	7-365	1							520
Cleaning Van	7-461	1	1						779
Total System Requirement:			6	8	3	1	15	\$10,000	\$11,446

2 SYSTEMS (Labor costs are estimated Contractor plus SUPSALV.)

Equipment	Page	Qty		Transportation			12-Hour Shift		Rental
	Number		Truck		Aircraft		Crew	Labor	Per Day
				C130	C141	C-5			
Vessel Skimmer 36' w/Rack	7-149	2	4				6		\$11,980
Boom Handling Boat	7-69	4	2				8		4928
Boom Tend. Boat 19' Inf	7-105	1	1				2		744
Command Van 20'	7-345	1					4		469
Shop Van	7-569	1	1				2		480
Rigging Van	7-551	1							520
Cleaning Van	7-505	1	1						779
Total System Requirement:	-		9	12	4	2	22	\$14,000	\$19,900

3 SYSTEMS (Labor costs are estimated Contractor plus SUPSALV.)

Equipment	Page	Qty	Transportation			12-Hour Shift		Rental	
	Number		Truck		Aircraft		Crew	Labor	Per Day
				C130	C141	C-5			
Vessel Skimmer 36' w/Rack	7-149	3	6				9		\$17,910
Boom Handling Boat	7-69	6	3				12		7392
Boom Tend. Boat 19' Inf	7-105	1	1				2		744
Command Van 20'	7-345	1					4		469
Shop Van	7-385	1	1				2		480
Rigging Van	7-365	1							520
Cleaning Van	7-461	1	1						799
Total System Requirement:			12	16	5	3	29	\$18,000	\$28,354

4 SYSTEMS (Labor costs are estimated Contractor plus SUPSALV.)

Equipment	Page	Qty	Transportation			12-Hour Shift		Rental	
	Number		Truck		Aircraft		Crew	Labor	Per Day
				C130	C141	C-5			
Vessel Skimmer 36' w/Rack	7-149	4	8				12		\$23,960
Boom Handling Boat	7-69	8	4				16		9856
Boom Tend. Boat 19' Inf	7-105	1	1				2		744
Command Van 20'	7-345	1					4		469
Shop Van	7-385	1	1				2		480
Rigging Van	7-365	1							520
Cleaning Van	7-461	1	1						779
Total System Requirement:			15	20	7	3	36	\$22,000	\$36,808

5 SYSTEMS (Labor costs are estimated Contractor plus SUPSALV)

Equipment	Page	Qty	Transportation			12-Hour Shift		Rental	
	Number		Truck		Aircraft		Crew	Labor	Per Day
				C130	C141	C-5			
Vessel Skimmer 36' w/Rack	7-149	5	10				15		\$29,950
Boom Handling Boat	7-69	10	5				20		12,320
Boom Tend. Boat 19' Inf	7-105	2	1				4		1488
Command Trailer 40'	7-339	1	1	N/A	N/A		4		730
Command Van 20'	7-345	1					2		469
Shop Van	7-385	1	1				4		480
Rigging Van	7-365	1							520
Cleaning Van	7-461	1	1						779
Total System Requirement:			19	24	8	3	49	\$29,000	\$46,736

6 SYSTEMS (Labor costs are estimated Contractor plus SUPSALV)

Equipment	Page	Qty	Transportation			12-Hour Shift		Rental	
	Number		Truck		Aircraft		Crew	Labor	Per Day
				C130	C141	C-5			
Vessel Skimmer 36' w/Rack	7-149	6	12				18		\$35,940
Boom Handling Boat	7-69	12	6				24		14,784
Boom Tend. Boat 19' Inf	7-105	2	1				4		1488
Command Trailer 40'	7-339	1	1	N/A	N/A		4		730
Command Van 20'	7-345	1					2		469
Shop Van	7-385	1	1				4		480
Rigging Van	7-365	1							520
Cleaning Van	7-461	1	1						779
Total System Requirement:			22	28	10	4	56	\$33,000	\$55,190

- NOTE 1: Personnel numbers are based on one 12-hour shift per day.
- NOTE 2: For more than 12 systems, contact SUPSALV for cost/manpower/transportation requirements.
- NOTE 3: The preceding estimates assume both towboats are supplied by SUPSALV. In some cases, one commercial boat/system can be leased on scene.
- NOTE 4: Rental rates are used in non-DOD responses only. Rates used are published in the Federal Register, Volume 7, No. 145 and may change without notice when the Federal Register is updated.

SECTION 5.2

SUPSALV OIL SPILL RESPONSE EQUIPMENT RENTAL RATES

5.2.1 Listed below are the rental rates charged private or commercial spillers when SUPSALV assets are employed during a federal oil spill response, or when called upon by the State Department. These rates apply to a day, or any fraction of a day, in which the equipment is in transit, operated, or is in standby status.

EQUIPMENT (NOTE 1)	DAILY RATES
Vans	
Command Van	\$ 469
Command Trailer	\$ 730
Shop Van	\$ 480
Berthing Van	\$ 142
Rigging Van	\$ 520
Hot Tap Van	\$1596
Cleaning Van	\$ 779
Steam Generator System	\$ 357
Skimmers	
Vessel Skimmer	\$3491
Vessel Skimmer w/Mod Pack (NOTE 2)	\$5990
Sorbent Belt VOSS Skimmer (NOTE 3)	\$4471
Auger Pump VOSS Skimmer	\$1366
Sorbent Rope Skimmer	\$ 489
Boats	
Boom Handling Boat, 24'	\$1232
Workboat 18' w/outboard motor on trailer	\$ 776
Inflatable Boat 23' with outboard motors	\$ 950
Inflatable Boat 19' with outboard motors	\$ 744
Inflatable Boat 17'	\$ 200
Inflatable Boat 15'	\$ 74
Pumps	
Hydraulic Submersible Pump System (6")	\$ 622
Hydraulic Submersible Pump (4")	\$ 60
Jetting Pump	\$ 71
Auger Pump (DESMI) DOP 250	\$ 185
Auger Pump (DESMI) 150	\$ 185
Hydraulic Power Units	
Power Unit, Mod 2, Hydraulic Diesel	\$ 118
Power Unit, Mod 6, Hydraulic Diesel	\$ 900
Power Unit, Mod 7, Hydraulic Diesel	\$ 24
Containment Boom, 55' Section (NOTE 4)	\$ 129
Communications System Shipboard (SATCOM)	\$1303
Communications System Landbased (SATCOM)	\$ 489

EQUIPMENT (Continued)	DAILY RATES
Miscellaneous	
Boom Mooring System	\$ 47
Boom Roller	\$ 60
Portable Crane, 8-ton	\$ 617
Bladder, 136k-gallon	\$1589
Bladder, 26k-gallon	\$ 910
Lighting Kit	\$ 93
Light Tower	\$ 61
Generator, 30-kW	\$ 159
Hot Tap Kit	\$ 290
Portable A-frame	\$ 91
Air Compressor	\$ 96
Firefighting Kit	\$ 88
Ship Fender (8' x 12')	\$ 91
Ship Fender, Inflatable (14' x 60')	\$1090
Ship Fender, Inflatable (10' x 50')	\$ 847
Ship Fender, Inflatable (10' X 40')	\$ 632
Boarding Kit (for use with POL Pump System)	\$ 265
Portable Capatan	\$ 295
Cleaning Pool	\$ 481
Outboard Motor, 50-hp	\$ 46
Outboard Motor, 35-hp	\$ 30
Outboard Motor, 15-hp	\$ 25

- NOTE 1: See chapter 7 of catalog for equipment descriptions
- NOTE 2: Package includes sponson rack containing 660' of collection boom, a 26k-gallon oil storage bladder, tools, spare parts, rigging supplies, etc.
- NOTE 3: VOSS, Vessel of Opportunity Skimmer System
- NOTE 4: Boom is shipped in a Boom Van that contains thirty-six 55' sections of boom

SECTION 5.3

EQUIPMENT TRANSPORTATION TIMES AND COSTS

5.3.1 Transportation

The SUPSALV ESSM equipment will be deployed to the spill area from the ESSM base by the most expeditious transportation method. These methods include truck, air cargo, and ship/barge transportation. The most expeditious transportation mode will be determined by SUPSALV on the basis of distance, the time available, and the equipment needed.

The requesting activity must provide a contact for all transportation coordination with a 24-hour phone number. A complete shipping address for the delivery site/staging area must be provided to SUPSALV before shipment of the equipment from the ESSM warehouses.

5.3.2 Response Time Zones and Estimated Rates

The maps on the following pages give approximate response times from the Naval Supply Center, Cheatham Annex, Williamsburg, Virginia, on the East Coast and the Naval Station, Port Hueneme, California, on the West Coast of the United States. Accompanying these maps are charts estimating the approximate travel time and cost from their respective coast. All costs are subject to change without notice.

5.3.3 Aircraft Response Times

To determine response times for an aircraft-based response, use the following formula:

RESPONSE TIME = 6 Hours + Flight Time + Transit Time to Spill Site from an Airstrip

Naval Ordnance Station, Indian Head Naval Surface Weapons Center, Naval Complex, Norfolk Naval Amphibious Base, Little Creek Naval Hospital Norfolk, Portsmouth Naval Shipyard, Norfolk Annex Naval Weapons Station, Yorktown Naval Supply Center, Cheatham Vaval Command Center, Cutler Naval Hospital, Camp Lejeune /Naval Weapons Station, Earle Naval Security Group Activity, Winter Harbor Lakehurst Naval Engineering Center Naval Communications Unit, Naval Shipyard, Portsmouth Naval Complex, Charleston Naval Complex, Newport Naval Complex Annapolis Naval Air Rework Facility Cherry Point Naval Hospital, Beaufort Naval Complex, Groton Washington Dahlgren ž Medical Command, Northeast Region Naval Air Station, Glenview Detroit Naval Air Facility Reserve Support Activity Chief of Naval KS SD α 23 5 AZ ≩ OR NAS Whidby Island ö Center Naval Undersea Warfare Engineering-Station, Keyport Naval Supply Center, Oakland Naval Station, Treasure Island NAS Alameda Naval Construction Battalion Center, Port Hueneme Pacific Missile Test Center, Point Mugu Anti-Submarine Warfare Training Center, Pacific Fleet Naval Station, San Diego Naval Hospital, San Diego, Naval Shipyard, Puget Sound Supply Naval Complex, Bangor Naval Shipyard, Mare Island Naval Weapons Station, Concord Naval Hospital, Oakland Naval Facilities Engineering Command~ Naval Postgraduate School, Monterey Naval Station, Long Beach-Naval Training Center, Recruit Training Command, Service School Command, Naval Communications Station, Stockton Naval Weapons Station, Seal Beach Camp Pendleton Naval Complex, Point Loma Naval Amphibious Base, Coronado, Naval Air Station North Island Rework Facility

RESPONSE TIME ZONES FROM CHEATHAM ANNEX

TRUCK

Numbered zones are in 100-mile increments.

Response time is within 60+ hours.

Naval Submarine Base, Kings Bay

Naval Station, Mayport

Naval Coastal Systems Center, Panama City

New Orleans NAS ANG Naval Construction Battalion Center, Gulfport

NAS Corpus Christi Hospital

Naval Oceanography Command, NSTL Station

Response time is within 12 hours. Response time is within 36 hours. Response time is within 60 hours.

Legend

	APPROXIMATE TRAVEL TIMES AND TRUCKING COSTS FROM CHEATHAM ANNEX, VA								
Destination	Miles (Note 1)	Hours (Note 2)	Average Cost Per Mile	Cost (Note 3)					
Zone 1	1 – 100	3	(See Note 4)						
Zone 2	101 – 200	6	\$2.49	\$498.00 (See Note 5)					
Zone 3	201 – 300	8.6	\$2.49	\$747.00 (See Note 5)					
Zone 4	301 – 400	11.5	\$2.49	\$996.00					
Zone 5	401 – 500	14.5	\$2.49	\$1,245.00					
Zone 6	501 – 600	17	\$2.49	\$1,494.00					
Zone 7	601 – 700	20	\$2.49	\$1,743.00					
Zone 8	701 – 800	23	\$2.49	\$1,992.00					
Zone 9	801 – 900	26	\$2.06	(See Note 6)					
Zone10	901 – 1,000	28.5	\$2.06	\$1,957.00 to middle of zone					
Zone 11	1,001 – 1,100	31.5	\$2.06	\$2,266.00					
Zone 12	1,101 – 1,200	34.5	\$2.06	\$2,369.00 to middle of zone					
Zone 13	1,201 – 1,300	37	\$2.06	\$2,575.00 to middle of zone					
Zone 14	1,301 – 1,400	40	\$2.06	\$2,781.00 to middle of zone					
Zone 15	1,401 – 1,500	43	\$2.06	\$2,987.00 to middle of zone					
Zone 16	1,501 – 1,600	46	\$2.06	\$3,193.00 to middle of zone					
Zone 17	1,601 – 1,700	48.5	\$2.06	\$3,502.00					
Zone 18	1,701 – 1,800	51.5	\$1.85	\$3,237.50 to middle of zone					
Zone 19	1,801 – 1,900	54.5	\$1.85	\$3,422.50 to middle of zone					
Zone 20	1,901 – 2,000	57	\$1.85	\$3,607.50 to middle of zone					
Zone 21	2,001 – 2,100	60	\$1.85	\$3,792.50 to middle of zone					
Zone 22	2,101 – 2,200	63	\$1.85	\$3,977.50 to middle of zone					

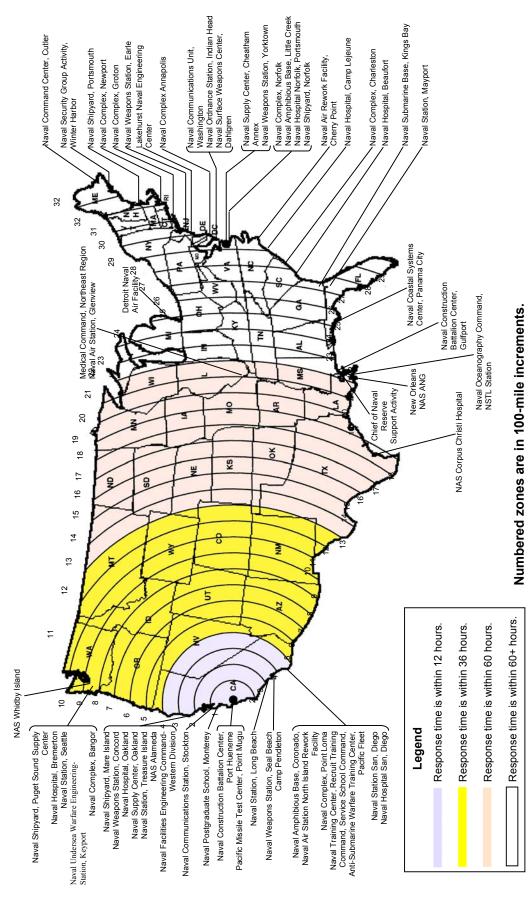
APPROXIMATE TRAVEL TIMES AND TRUCKING COSTS FROM CHEATHAM ANNEX, VA									
Destination	Destination Miles (Note 1) Hours Average Cost (Note 2) Per Mile (Note 3)								
Zone 23	2,201 – 2,300	66	\$1.85	\$4,162.50 to middle of zone					
Zone 24	2,301 – 2,400	69	\$1.85	\$4,347.50 to middle of zone					
Zone 25 2,401 – 2,500 71.5 \$1.85 \$4,532.50 to middle of zone									
Zone 26	2,501 – 2,600	74.5	\$1.85	\$4,717.50 to middle of zone					

NOTES

- 1. All mileages, times, and costs are from Cheatham Annex, zone 1.
- 2. Average rate of travel is 35 miles per hour per USCG guidance.
- 3. Cost within each zone will vary depending on actual mileage.
- 4. Minimum cost to Yorktown, Norfolk, Little Creek, or Portsmouth is \$375.00. Minimum cost to Annapolis, Washington, Indian Head, or Dahlgren is \$625.00.
- 5. Minimum cost to Cherry Point and Camp Lejeune is \$550.00.
- 6. Cost to Cutler is \$2,241.00. Cost to Panama City is \$1,854.00.

TRUCK

RESPONSE TIME ZONES FROM PORT HUENEME, CA



APPROXIMATE TRAVEL TIMES AND TRUCKING COSTS FROM PORT HUENEME, CA				
Destination	Miles (Note 1)	Hours (Note 2)	Average Cost Per Mile	Cost (Note 3)
Zone 1	1 – 100	3	\$4.50	\$450.00
Zone 2	101 – 200	10	\$2.49	\$498.00
Zone 3	201 – 300	7-8	\$2.49	\$747.00
Zone 4	301 – 400	8	\$2.49	(See Note 4)
Zone 5	401 – 500	10	\$2.49	(See Note 5)
Zone 6	501 – 600	20	\$2.49	\$1,494.00
Zone 7	601 – 700	20	\$2.49	\$1,743.00
Zone 8	701 – 800	20	\$2.49	\$1,992.00
Zone 9	801 – 900	20	\$1.80	(See Note 6)
Zone10	901 – 1,000	30	\$1.80	\$1,800.00
Zone 11	1,001 – 1,100	30	\$1.80	\$1,980.00
Zone 12	1,101 – 1,200	30	\$1.80	\$2,160.00
Zone 13	1,201 – 1,300	30	\$1.80	\$2,340.00
Zone 14	1,301 – 1,400	30	\$1.80	\$2,520.00
Zone 15	1,401 – 1,500	30	\$1.80	\$2,700.00
Zone 16	1,501 – 1,600	40	\$1.80	\$2,880.00
Zone 17	1,601 – 1,700	50	\$1.80	\$3,060.00
Zone 18	1,701 – 1,800	50	\$1.60	\$2,880.00
Zone 19	1,801 – 1,900	40	\$1.60	\$3,040.00
Zone 20	1,901 – 2,000	50	\$1.60	\$3,200.00
Zone 21	2,001 – 2,100	50	\$1.60	\$3,360.00

APPROXIMATE TRAVEL TIMES AND TRUCKING COSTS FROM PORT HUENEME, CA					
Destination	Miles (Note 1)	Hours (Note 2)	Average Cost Per Mile	Cost (Note 3)	
Zone 22	2,101 – 2,200	40	\$1.60	\$3,520.00	
Zone 23	2,201 – 2,300	50	\$1.60	\$3,680.00	
Zone 24	2,301 – 2,400	50	\$1.60	\$3,840.00	
Zone 25	2,401 – 2,500	50	\$1.18	\$2,950.00	
Zone 26	2,501 – 2,600	60	\$1.18	\$3,068.00	
Zone 27	2,601 – 2,700	60	\$1.14	\$3,078.00	
Zone 28	2,701 – 2,800	60	\$1.14	(See Note 7)	
Zone 29	2,801 – 2,900	60	\$1.14	(See Note 8)	

NOTES

- 1. All mileages, times, and costs are from Port Hueneme, CA, zone 1.
- 2. Average rate of travel is 35 miles per hour per USCG guidance.
- 3. Cost within each zone will vary depending on actual mileage.
- 4. Cost to Seal Beach, CA is \$920.00. Cost to Long Beach, CA is \$900.00.
- 5. Cost to San Diego, CA is \$1,020.00. Cost to Camp Pendleton, CA is \$1,020.00. Cost to Coronado, CA is \$1,150.00.
- 6. Cost to Seattle, WA is \$978.44. Cost to Keyport, WA is \$979.66. Cost to Bremerton, WA is \$978.44.
- 7. Cost to Yorktown, VA is \$3,317.75. Cost to Indian Head, MD is \$3,315.45. Cost to Annapolis, MD is \$3,184.50. Cost to Washington, D.C. is \$3,162.50.
- 8. Cost to Camp Lejeune, NC is \$3,290.15. Cost to Norfolk, VA is \$3,315.45. Cost to Cherry Point, NC is \$3,332.70. Cost to Little Creek, VA is \$3,329.25.

CHAPTER 6

POLLUTION RESPONSE EQUIPMENT

SECTION 6.1

EQUIPMENT INVENTORY

- 6.1.1 SUPSALV inventories and maintains six types of pollution response equipment. All equipment is ready for immediate deployment with operating personnel. The following types of equipment are available:
 - Containment Systems
 - Primary Skimmer Systems
 - POL Offloading Systems
 - Field Support Equipment
 - Logistic Support System
 - Forward Response Systems

An inventory of SUPSALV pollution control equipment follows. Any logistics support requirements such as large support vessels, aircraft, staging areas, and related items must be locally provided and should be addressed in local contingency plans.

POLLUTION RESPONSE SYSTEMS INVENTORY

FOLLUTION	Williamsburg, P	t Hueneme	Anchorage P	earl Harbo	r.			
EQUIPMENT DESCRIPTION	VA VA	CA	AK	HI	''Singapore	Japan	Italy	Bahrain
CONTAINMENT SYSTEMS	*	-						
Boom Van (42" x 1980' Boom)	20	8	2	5	0	0	0	0
Boom, Oil Containment, 60" X 600' Foam Flotation	1	1	1	0	0	0	0	1
Boom Mooring System	29	30	12	12	0	0	0	0
Boom Mooring Sys (Deep Water Extension)	10	21	10	10	0	0	0	0
Boom Handling Boat 24'	10	8	2	4	0	0	0	0
Boom Tending Boats (18' rigid hull)	4	5	3	1	ŏ	0	0	0
Boom Tending Boats (Inflatable)	6	2	2	2	0	0	0	0
Fire Boom System	1	0	0	0	0	0	0	0
PRIMARY SKIMMER SYSTEMS	-	0			- V	0	Ů	
Vessel Skimmer System	6	4	1	1	0	0	0	0
Rapid Deployment Skimmer System	4	4	2	2	0	0	0	0
Vessel of Opportunity Skimmer System	2	0	1	0	0	0	0	0
	0	•	_	0	0		0	0
Arctic Oil Recovery Stsyem	1	0	$0 \\ 2$	0	0	$0 \\ 0$	0	0
Rope Mop Skimmer System	1	U		U	U	U	U	0
POL OFFLOADING SYSTEMS	4		2	4			_	
Pump System, POL 6" Submersible	4	3	2	4	2	2	2	2
Viscous Oil Transfer System	5	3	2	1	0	0	0	0
Boarding Kit	3	1	0	1	0	0	0	0
Firefighting System, Off-Ship (OSFS)	6	1	1	1	0	0	0	0
Hot Tap System	3	2	0	1	0	0	0	0
Fender System (10' x 50' LP Air)	1	2	1	0	0	0	0	0
Fender System (14' x 60' LP Air)	1	1	0	0	0	0	0	0
Modular Barge System	1	0	0	0	0	0	0	0
ROV Lightering System	0	0	0	0	0	0	0	0
Submersible, 2" to 6" Hydraulic Pump System	2	0	0	0	0	0	0	0
FIELD SUPPORT EQUIPMENT								
Command Trailer (40')	3	2	0	0	0	0	0	0
Command Van (20')	2	3	1	1	0	0	0	0
Rigging Vans	5	2	1	1	0	0	0	0
Shop Vans	3	3	1	1	0	0	0	0
Personnel Bunk Vans	3	1	0	0	0	0	0	1
Communications Sys (Satellite Phone, Land)	6	0	0	0	0	0	0	0
Communications Sys (Satellite Phone, Ship)	4	0	0	0	0	0	0	0
Communications System (Range Enhancing)	1	0	0	0	0	0	0	0
Beach Transfer System	3	1	1	1	0	0	0	0
Cleaning System	4	1	1	1	0	0	0	0
Supply Van	1	0	0	0	0	0	0	0
Personnel Transfer Boats	6	Õ	Ö	2	Õ	0	0	Ö
GPS Response Asset Tracking System	2	0	0	0	Õ	0	0	0
Hose Van Supply & Support	1	0	ő	ő	ő	0	0	0
Rapid Personnel / Equipment Transfer System	1	0	0	Õ	0	0	0	0
LOGISTIC SUPPORT SYSTEMS	1	-	0		0	0	-	
Floating Hose System (6" x 5800')	1	1	0	0	0	0	Λ	
136K Oil Storage Bladder	4	1 5	0 1	0 1	0	$0 \\ 0$	$0 \\ 0$	0
	0	0	1 1	1 1		0	0	
290K Oil Storage Bladders Material Transfer System	U 1	U 1	0	0	0	0	0	0
	1 1	1		-				
Oil Bladder Transfer System	1	0	0	0	0	0	0	0
Debris Handling System	3	U	0	0	0	0	0	0
Vacuum Pump/Skimmer System	2	U 1	0	0	0	0	0	0
Oil/Water Separator (Parallel Plate 100 gpm)	l 1	1	1	0	0	0	0	0
Steam Generator System	l	3	0	0	0	0	0	0
Spill Recovery Bladder (26-50K)	6	6	2	2	0	0	0	0
FORWARD RESPONSE SYSTEMS								
Salvage Support Skimmer System	4	0	0	1	0	0	0	0
Tier 1 Tanker Skimmer System	0	0	0	0	0	0	0	0
Inland Support Skimmer System	0	0	2	0	0	0	0	0
						、 	1 7 1	10, 2003

Revised July 10, 2003

SECTION 6.2

DAILY EQUIPMENT RECOVERY RATES

SUPSALV Oil Spill Equipment Recovery Rates

	SKIMMER	EFFECTIVE DAILY RECOVERY RATE (24-Hr Period)
1.	Class V Skimmer with Moyno Progressive Cavity Pump	1234 bbls
2.	Class V Skimmer with DS 210	1371 bbls
3.	Class XI with DS 210 pump	1371 bbls
4.	Destroil with DS 150 pump	Est 603 bbls
5.	Destroil Skimmer w/DS 210 pump	1371 bbls
6.	Desmi Mini-Max 24" Diameter Weir	1509 bbls
7.	Desmi Termite 28" Diameter Weir	1509 bbls
8.	Desmi Terminator	3017 bbs
9.	Lamor LWS-50 Weir	1509 bbls
10.	Douglas Weir Skim Pacs w/peristaltic pump	754 bbls
11.	Lamor Minimax 12 Skimmer	362 bbls

EDRR Method = OEM Nameplate Rating bbls/hr x (0.2) x 24*

^{*} Effective daily recovery rates are supplied by equipment manufacturer taken under controlled conditions. Actual daily recovery rates may be substantially lower in an uncontrolled condition.

Downloaded from http://www.everyspec.com

CHAPTER 7

POLLUTION CONTROL EQUIPMENT

SECTION 7.1

INTRODUCTION

7.1.1 This section provides specifications, characteristics, ancillary equipment, and reference data for pertinent pollution items usually activated in quick response to assistance request. Material in the ESSM system are contingent for use in emergency ship salvage pollution operations only.

SECTION 7.2

INVENTORY OBJECTIVE LIST OF POLLUTION EQUIPMENT

In	ventory Objective List	System Number	Page Number
1.	Containment Systems		
	1.1 Oil Containment Boom System	P04100	7-35 7-45 7-53 7-71 7-85
2.	Primary Skimmer Systems		
	 2.1 Vessel Skimmer System	P16100 P16300 P16500	7-147 7-173 7-205
3.	Pollution Offloading Systems		
	 3.1 Submersible 6" Hyd Pump	P17200	7-244G 7-2457-2517-259

SECTION7.2 INVENTORY OBJECTIVE LIST OF POLLUTION EQUIPMENT, Cont.

Inventory Objective List		ry Objective List	System Number	Page Number
			Number	Number
	3.6	Fenders, LP Pneumatic, 4 Sys		
		10' x 50'	P06100	7-303
		14' x 60'	P06200	7-311
	3.7	Modular Barge System	P06400	7-317
	3.8	ROV Lightering System	P10200	7-319
4.	Field	Support Equipment		
	4.1	Command Trailer	P19400	7-321
	4.2		P19300	
	4.3	Rigging Van	P19600	7-357
	4.4	Shop Van	P19700	7-369
	4.5		P19500	
	4.6	Communications System		
			P05100	
		Shipboard	P05200	7-411
			P05300	
	4.7		P01100	
	4.8	Cleaning System Van		
	4.9		P19800	
		Personnel Transfer Boats		
		GPS Response Asset Tracking System		
		Hose Van		
	4.13	Rapid Personnel/Equip Trans Sys	P20000	7-519
5.	Logi	stic Support System		
	5.1	Floating Hose System	P08100	7-525
	5.2	Oil Storage Bldr 136K	P14100	7-549
	5.3	Oil Storage Bldr 290K	P14200	7-555
	5.4	Material Transfer System	P11100	7-561
	5.5	Oil Bldr Transfer System	P20300	7-563
	5.6		P20400	
	5.7		P18100	
	5.8		P20500	
	5.9		P12100	
	5.10		P12200	
	5.11	Spill Recovery Bladders 26-50K	P14300	7-611

SECTION 7.2 INVENTORY OBJECTIVE LIST OF POLLUTION EQUIPMENT, Cont.

Inventory Objective List		System	Page
		Number	Number
6.	Forward Response Systems		
	6.1 Salvage Supt Skim Sys	P16200	7-619
	6.2 Tier 1 Tanker Skim Sys		
	6.3 Inland Support Skimmer System	P16700	7-675

SECTION 7.3

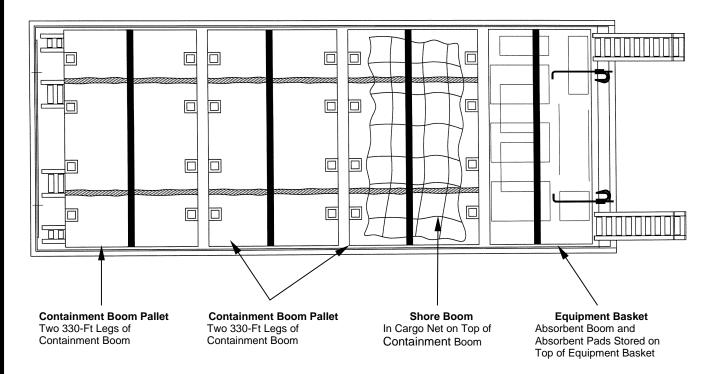
POLLUTION SYSTEMS

Downloaded from http://www.everyspec.com

OIL CONTAINMENT BOOM SYSTEM P19100







BOOM VAN PACKING

Oil Containment Boom System Overview

OIL CONTAINMENT BOOM SYSTEM

SYSTEM NUMBER P19100

SYSTEM DESCRIPTION

The Oil Containment Boom System P19100 is the primary containment equipment at an oil spill site, and consists of vans, boom, air compressors, and necessary ancillary equipment to support the various types of containment boom. The Oil Containment Boom System is portable and maintained in a state of readiness for rapid deployment to a spill site.

SYSTEM COMPONENTS

<u>Item</u>		ESSM NUMBER	<u>Qty</u>
1.	Van, Oil Containment Boom		1
	a. USS-42HB Boom Van:	VA0737	
	Oil Containment Boom		
	Model USS-42HB, 42" x 55'	BM0737	36
	Model USS-42SB, 42" x 25'	BM0736	4
	Pallet, Storage, USS-42/USS-42HB Boom	BM0876	3
	Equipment Basket, USS-42/USS-42HB Boom:	BM0881	1
	Air Compressor		1
	19 Cfm @ 125 Psi, Diesel	AC0501	
	14 Cfm @ 100 Psi, Diesel	AC0500 (Altn)	
	Containment Pool, Machinery, 5'x 5' x 12"	CP3000	1
	Pump, Diaphragm, 1" Pneumatic	PU2103	1
	Carpenter Stopper, 5/8"	ST0010	2
	Bridle, Wire Rope, 5/8" Carpenter Stopper	ST0012	2
	Roundsling, Polyester, 14' 6"	SL0011(Altn not shown)	4
	Roundsling, Polyester, 16'	SL0012	4
	b. USS-42 Boom Van:	VA0738 (1st Altn)	
	Oil Containment Boom:		
	Model USS-42, 42" x 55'	BM0738	36
	Model USS-42SB, 42" x 25'	BM0736	4
	Pallet, Storage, USS-42/USS-42HB Boom	BM0876	3
	Equipment Basket, USS-42/USS-42HB Boom:	BM0881	1
	Air Compressor		1
	22 Cfm @ 125 Psi, Diesel	AC0501	
	14 Cfm @ 100 Psi, Diesel	AC0500 (Altn)	
	Containment Pool, Machinery, 5' x 5' x 12"	CP3000	1
	Pump, Diaphragm, 1" Pneumatic	PU2103	1
	Carpenter Stopper, 5/8"	ST0010	2
	Bridle, Wire Rope, 5/8" Carpenter Stopper	ST0012	2
	Roundsling, Polyester, 16'	SL0012	4

OIL CONTAINMENT BOOM SYSTEM

SYSTEM NUMBER P19100

c.	FUG Boom Van:	VA0720 (2nd Altn)	
	Oil Containment Boom Model FUG, 42" x 55'	BM0735	36
	Pallet, Storage, FUG Boom	BM0877	3
	Equipment Basket, FUG Boom:	BM0880	1
	Air Compressor		1
	19 Cfm @ 125 Psi, Diesel	AC0501	
	14 Cfm @ 100 Psi, Diesel	AC0500 (Altn)	
	Containment Pool, Machinery, 5' x 5' x 12"	CP3000	1
	Roundsling, Polyester, 16'	SL0012	4

Downloaded from http://www.everyspec.com



Oil Containment Boom Van (USS-42HB Boom) VA0737

VAN, OIL CONTAINMENT BOOM (USS-42HB BOOM)

ESSM NUMBER VA0737

DESCRIPTION

The Oil Containment Boom Van VA0737 is a storage and shipping container for 2000 feet of Oil Containment Boom, a diesel driven air compressor, tools, a repair kit, tow lines, related rigging materials, and other support equipment.

SPECIFICATIONS

Manufacturer Commercial

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length	20 ft, 0 in.
Width	8 ft, 0 in.
Height	8 ft, 0 in.
Cube	1280 cu ft
Weight	27,500 lb

REFERENCES

None



Oil Containment Boom Van (USS-42 Boom) VA0738

VAN, OIL CONTAINMENT BOOM (USS-42 BOOM)

ESSM NUMBER VA0738

DESCRIPTION

The Oil Containment Boom Van VA0738 is a storage and shipping container for 2000 feet of Oil Containment Boom, a diesel driven air compressor, tools, a repair kit, tow lines, related rigging materials, and other support equipment.

SPECIFICATIONS

Manufacturer Commercial

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length	20 ft, 0 in.
Width	8 ft, 0 in.
Height	8 ft, 0 in.
Cube	1280 cu ft
Weight	27,500 lb

REFERENCES

None



Oil Containment Boom Van (FUG Boom) VA0720

VAN, OIL CONTAINMENT BOOM (FUG BOOM)

ESSM NUMBER VA0720

DESCRIPTION

The Oil Containment Boom Van VA0720 is a storage and shipping container for 2000 feet of Oil Containment Boom, a diesel driven air compressor, tools, a repair kit, tow lines, related rigging materials, and other support equipment.

SPECIFICATIONS

Manufacturer Commercial

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length	20 ft, 0 in.
Width	8 ft, 0 in.
Height	8 ft, 0 in.
Cube	1280 cu ft
Weight	26,300 lb

REFERENCES

None



42" x 55' Oil Containment Boom, Model USS-42HB BM0737

BOOM, OIL CONTAINMENT, MODEL USS-42HB, 42" X 55'

ESSM NUMBER BM0737

DESCRIPTION

The Oil Containment Boom, Model USS-42HB, BM0737 is constructed of nitrile/vinyl rubber-impregnated, high strength nylon cloth that resists abrasions, gouging, oil, and salt water. The standard 55-ft section has five 10-ft long, 18-inch diameter inflation chambers with inflation/deflation valves. There is a 10-inch piece of rubberized fabric that separates adjoining chambers and provides flexibility for the boom. Each inflation section is completely vulcanized, with no stitched seams that can pull apart.

The boom has a skirt that extends 24 inches below the inflation chambers for containing the oil. A 1/2-inch galvanized chain runs through a reinforced pocket on the bottom of the skirt. This chain acts as a ballast/tension member to keep the skirt in a vertical position. There are six metal lifting handles vulcanized to each inflation section for deployment and recovery of the boom. In addition, there are two large lifting eyes vulcanized to the end chamber sections for lifting the boom sections into and out of the water. Highly visible orange strips are located at the first and third handle positions of each inflation chamber for improved visibility of the boom when it is waterborne. The boom is high in buoyancy and will float higher in the water than standard boom.

SPECIFICATIONS

Chamber buoyancy

Handle spacing

Manufacturer	Engineered Fabrics
Model	USS-42HB
Inflation pressure	2 - 3 psig
Test pressure	6 psig
Draft	30 in.
Freeboard	20 in.
Overall height inflated	50 in.
Overall height deflated	55 1/2 in.
Section length	55 ft
Weight per foot	7.5 lb
Flotation chamber	
Diameter	18 in.
Length	10 ft
Air valves per chamber	2

1600 lb

4 ft

BOOM, OIL CONTAINMENT, MODEL USS-42HB, 42" X 55'

ESSM NUMBER BM0737

SPECIFICATIONS (Cont'd)

Materials

Coated fabric Nitrile/vinyl rubber impregnated high strength nylon cloth

Color Black with high visibility orange strips

Ballast 1/2-in. galvanized steel chain, 45,000-lb tensile strength

End connections Anodized 6061-T6 aluminum alloy extrusion

Connector plate Stainless steel
Clevis, shackles, & oblong clevis pins Galvanized steel

Inflation/deflation valves Plastic with stainless steel hardware

Tow bar Stainless steel

PHYSICAL CHARACTERISTICS

	Operating*
Length	55 ft, 0 in.
Height (overall)	3 ft, 6 in.
Diameter (bladder inflated)	1 ft, 8 in.
Cube	324 cu ft
Weight	396 lb

^{*}Operating characteristics are for one 55' section of boom.

REFERENCES

- 1. Engineered Fabrics Operations and Maintenance Instructions with Illustrated Parts Breakdown.
- 2. Technical Manual for Oil Containment Boom and Boom Mooring Systems, S9597-AC-MMO-010.

Downloaded from http://www.everyspec.com



42" x 55' Oil Containment Boom, Model USS-42 BM0738

BOOM, OIL CONTAINMENT, MODEL USS-42, 42" X 55'

ESSM NUMBER BM0738

DESCRIPTION

The Oil Containment Boom, Model USS-42 BM0738 is constructed of nitrile/vinyl rubberimpregnated, high strength nylon cloth that resists abrasions, gouging, oil, and salt water. The standard 55-ft section has five 10-ft long, 14-inch diameter inflation chambers with inflation/deflation valves. There is a 10-inch piece of rubberized fabric that separates adjoining chambers and provides flexibility for the boom. Each inflation section is completely vulcanized, with no stitched seams that can pull apart.

The boom has a skirt that extends 24 inches below the inflation chambers for containing the oil. A 1/2inch galvanized chain runs through a reinforced pocket on the bottom of the skirt. This chain acts as a ballast/tension member to keep the skirt in a vertical position. There are six metal lifting handles vulcanized to each inflation section for deployment and recovery of the boom. In addition, there are two large lifting eyes vulcanized to the end chamber sections for lifting the boom sections into and out of the water. Highly visible orange strips are located at the first and third handle positions of each inflation chamber for improved visibility of the boom when it is waterborne.

SPECIFICATIONS

Manufacturer	Engineered Fabrics
Model	USS-42
Inflation pressure	2 - 3 psig
Test pressure	6 psig
Draft	22 in.
Freeboard	16 in.
Overall height inflated	42 in.
Overall height deflated	52 1/2 in.
Section length	55 ft
Weight per foot	6.7 lb
Flotation chamber	
Diameter	14 in.
Length	10 ft
Air valves per chamber	2
Chamber buoyancy	950 lb

Materials

Handle spacing

Coated fabric Nitrile/vinyl rubber-impregnated high strength nylon cloth

Color Black with high visibility orange strips

4 ft

1/2-in. galvanized steel chain, 45,000-lb tensile strength Ballast

BOOM, OIL CONTAINMENT, MODEL USS-42, 42" X 55'

ESSM NUMBER BM0738

SPECIFICATIONS (Cont'd)

End connections Anodized 6061-T6 aluminum alloy extrusion

Connector plate Stainless steel
Clevis, shackles, & oblong clevis pins Galvanized steel

Inflation/deflation valves Plastic with stainless steel hardware

Tow bar Stainless steel

PHYSICAL CHARACTERISTICS

	<u>Operating</u> *
Length	55 ft, 0 in.
Height (overall)	3 ft, 6 in.
Diameter (bladder inflated)	1 ft, 3in.
Cube	240 cu ft
Weight	420 lb

^{*}Operating characteristics are for one 55' section of boom.

REFERENCES

- 1. Engineered Fabrics Operations and Maintenance Instructions with Illustrated Parts Breakdown.
- 2. Technical Manual for Oil Containment Boom and Boom Mooring Systems, S9597-AC-MMO-010.

Downloaded from http://www.everyspec.com



42" x 55' Oil Containment Boom, Model FUG BM0735

BOOM, OIL CONTAINMENT, MODEL FUG 42" X 55'

ESSM NUMBER BM0735

DESCRIPTION

The Oil Containment Boom, Model FUG, BM0735 is an inflatable, rubberized, all-nylon boom that resists abrasions, gouging, oil, and salt water. The standard 55-foot section has five 10-ft long, 14-inch diameter inflation chambers with inflation/deflation valves. There is a 12-inch piece of rubberized fabric that separates adjoining chambers and provides flexibility for the boom. Each inflation section is completely vulcanized, with no stitched seams that can pull apart.

The boom has a skirt that extends 24 inches below the inflation chambers for containing the oil. A 1/2-inch galvanized chain runs through a reinforced pocket on the bottom of the skirt. This chain acts as a ballast/tension member to keep the skirt in a vertical position. The boom also has two rubber-coated, 5/8-inch Kevlar lines through reinforced loops on each side of the skirt below the inflation chamber. The chain and Kevlar line serve as tension carrying members of the boom.

There are six metal lifting handles vulcanized to each inflation section for deployment and recovery of the boom. In addition, there are two large lifting eyes vulcanized to the end chamber sections for lifting the boom sections into and out of the water. Highly visible orange strips are located at the first and third handle positions of each inflation chamber for improved visibility of the boom when it is waterborne.

SPECIFICATIONS

ManufacturerGoodyearModelFUGInflation pressure2 - 3 psigTest pressure6 psigWeight per ft 11.6 ± 0.5 lbFreeboard $12 \frac{1}{2}$ in.

Boom tensile strength:

Working 23,000 lb
Proof 45,000 lb
Ultimate 65,000 lb
Chamber buoyancy 630 lb

Lifting points 4 per boom section

BOOM, OIL CONTAINMENT, MODEL FUG, 42" X 55'

ESSM NUMBER BM0735

PHYSICAL CHARACTERISTICS

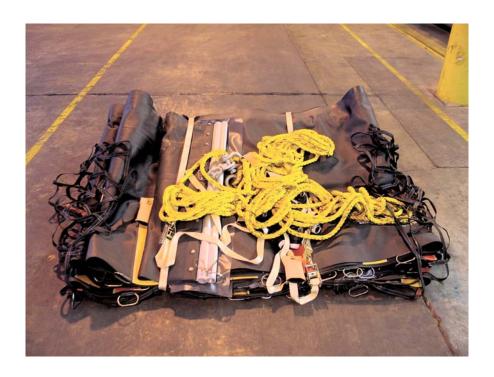
	Operating*
Length	55 ft, 0 in.
Height (overall)	3 ft 6 in.
Diameter (bladder inflated)	1 ft, 2 in.
Cube	224 cu ft
Weight	644 lb

^{*}Operating characteristics are for one 55' section of boom.

REFERENCES

- 1. NAVSEA Operations and Maintenance Manual, S-5400-AA-OHB-00-0.
- 2. Technical Manual for Oil Containment Boom and Boom Mooring Systems, S9597-AC-MMO-010.

Downloaded from http://www.everyspec.com



Shore Boom, Model USS-42SB, BM0736

BOOM, OIL CONTAINMENT, MODEL USS-42SB, 42" X 25'

ESSM NUMBER BM0736

DESCRIPTION

The USS-42SB Oil Containment Boom BM0736 is used to contain and control spilled oil in support of U. S. Navy oil pollution operations. Each boom segment is fitted with an air buoyancy chamber for flotation and two water chambers at the bottom to secure the boom to the shoreline and prevent oil from passing under it.

SPECIFICATIONS

Manufacturer Engineered Fabrics

Model USS-42SB
Inflation pressure 2 - 3 psi
Test pressure 6 psi
Overall height deflated 36 in.
Section length 25 ft

P08100-0003

PHYSICAL CHARACTERISTICS

P08100-0003

Operating*

Length 25 ft, 0 in.
Height (overall) 3 ft, 6 in.
Diameter 1 ft, 11 in.
Cube 168 cu ft
Weight 322 lb

REFERENCES

1. Technical Manual for Oil Containment Boom and Boom Mooring Systems, \$9597-AC-MMO-010.

^{*}Operating characteristics are for one 25' section of boom.



USS-42/USS-42HB Boom Storage Pallet BM0876 (Without Boom and Stanchions)



USS-42/USS-42HB Boom Storage Pallet BM0876 (With Eight 65 1/2" Stanchions and Boom)

PALLET, STORAGE, BOOM, USS-42/USS-42HB

ESSM NUMBER BM0876

DESCRIPTION

The 84-inch x 60-inch x 7-inch USS-42/USS-42HB Boom Storage Pallet BM0876 is a storage/shipping container for either the USS-42 or the USS-42HB boom. The pallet has two configurations. One configuration is with stanchions that are 65 1/2 inches in height. This configuration is used in the Oil Containment Boom Vans and is designed to hold 12 sections of USS-42 or USS-42HB. The second configuration is with stanchions that are 31 3/4 inches in height, due to storage restriction in the Sponson Rack SK0712 used in the Modular Skimmer System. This configuration is used with the Modular Skimmer System only and is designed to hold 6 sections of USS-42 or USS-42HB as applicable. The pallet is constructed of 2 and 2 1/2-inch square tubing with a 3/4-inch x #9 expanded metal deck to support the boom.

SPECIFICATIONS

Manufacturer ESSM Facility

Drawing number 6777293

PHYSICAL CHARACTERISTICS

	Shipping (with boom)	Shipping (w/o boom)
Pallet with 65 1/2" stanchions		
Length	7 ft, 0 in.	7 ft, 0 in.
Width	5 ft, 0 in.	5 ft, 0 in.
Height	5 ft, 5 1/2 in.	7 in.
Weight (with USS-42HB)	5626 lb	700 lb
Weight (with USS-42)	5962 lb	
Cube	191 cu ft	20 cu ft
Pallet with 31 3/4" stanchions		
Length	7 ft, 0 in.	7 ft, 0 in.
Width	5 ft, 0 in.	5 ft, 0 in.
Height	2 ft, 7 3/4 in.	7 in.
Weight (with USS-42HB)	3250 lb	636 lb
Weight (USS-42)	3442 lb	
Cube	93 cu ft	20 cu ft

REFERENCES

1. USS-42 & USS-42HB Equipment Container & Pallets, NAVSEA Dwg. 6777293.



 $85\ensuremath{^{\circ}}$ x 54" x 7" FUG Boom Storage Pallet BM0877

PALLET, STORAGE, BOOM, FUG

ESSM NUMBER BM0877

DESCRIPTION

The 84-inch x 54-inch x 7-inch FUG Boom Storage Pallet BM0877 is a storage/shipping container designed to hold 12 sections of FUG Boom. The pallet is constructed of 2 and 2 1/2-inch square tubing with a 3/4-inch x #9 expanded metal deck to support the boom.

SPECIFICATIONS

Manufacturer ESSM Facility
Drawing number 6777292

PHYSICAL CHARACTERISTICS

	Shipping (with boom)	Shipping (w/o boom)
Length	7 ft, 0 in.	7 ft, 0 in
Width	4 ft, 6 in.	4 ft, 6 in.
Height	5 ft, 5 1/2 in.	7 in.
Weight	7773 lb	435 lb
Cube	171 cu ft	18 cu ft

REFERENCES

1. FUG Boom Equipment Container & Pallets, NAVSEA Dwg. 6777292.



USS-42 & USS-42HB Boom Equipment Basket BM0881

EQUIPMENT BASKET, USS-42 & USS-42HB BOOM

ESSM NUMBER BM0881

DESCRIPTION

The USS-42 and USS-42HB Boom Equipment Basket BM0881 is a metal, wire mesh container used to store and transport the ancillary equipment for the USS-42 and USS-42HB Boom. The equipment basket measures 84 inches x 48 inches x 46.5 inches and contains a 14- or 19-cfm air compressor, a machinery containment pool, a 1-inch diaphragm pump, and two 5/8-inch carpenter stoppers and bridles.

The rigging basket also contains a boom patching kit, basic hand tools, two helix anchors, two bridle assemblies for anchoring boom, a turning bar for screwing anchors into the ground, an adapter plate (FUG boom to USS-42HB), air and suction hoses, shackles, boom connector plates, light assemblies, various adaptors and connectors, a tow plate, sorbent pads, and other ancillary equipment.

SPECIFICATIONS

Manufacturer ESSM Facility
Drawing number 6777293

PHYSICAL CHARACTERISTICS

Operating/Shipping

 Length
 7 ft, 0 in.

 Width
 4 ft, 0 in.

 Height
 3 ft, 10 1/2 in.

 Cube
 113 cu ft

 Weight
 2016 lb

REFERENCES

1. USS-42 & USS-42HB Equipment Container & Pallets, NAVSEA Dwg. 6777293.



FUG Boom Equipment Basket BM0880

EQUIPMENT BASKET, FUG BOOM

ESSM NUMBER BM0880

DESCRIPTION

The FUG Boom Equipment Basket BM0880 is a metal, wire mesh container used to store and transport the ancillary equipment for the FUG Boom.

The equipment basket contains a 14- or 19-cfm air compressor, and a machinery containment pool. It also contains a patching kit, basic hand tools, boom end plates, four 3/8-inch x 50-foot air hoses, two towlines, shackles, a tow plate assembly, two red and eighteen amber light assemblies, a tow plate, sorbent pads, and various other ancillary items.

SPECIFICATIONS

Manufacturer ESSM Facility

Drawing number 6777292

PHYSICAL CHARACTERISTICS

Operating/Shipping

 Length
 7 ft, 0 in.

 Width
 4 ft, 0 in.

 Height
 3 ft, 10 1/2 in.

 Cube
 113 cu ft

 Weight
 2146 lb

REFERENCES

1. FUG Oil Boom Equipment Container & Pallets, NAVSEA Dwg. 6777292.



19-Cfm Air Compressor AC0501

AIR COMPRESSOR, 19 CFM @ 125 PSI, DIESEL

ESSM NUMBER AC0501

DESCRIPTION

The Air Compressor AC0501 is a two-stage, high volume air compressor that provides 19 cfm at 125 psig. The air compressor is powered by a 1-cylinder, 6.2-hp diesel engine, which has its own fuel supply tank. The engine is designed to operate at a continuous speed of 3600 rpm for long periods of time. The engine and compressor are enclosed in a protective frame that is mounted on top of a 30-gallon air storage tank with wheels, which allows for easy maneuverability.

SPECIFICATIONS

Air Compressor

Air Compressor Assembly

Manufacturer	Emglo Products
Model	GC8YDA-17F

Manufacturer	Emglo Products	Manufacturer	Yanmar
Model	JU	Model	L60
Capacity	19 cfm	Cylinders	1
Rated operating pressure	125 psi	Bore	2.95 in.
Operating pressure range	100 to 120 psig	Stroke	2.44 in.
Stages	2	Displacement	16.7 cu in.
Rpm	875	Rpm (continuous)	3600
Storage tank	30 gallons	Compression ratio	20:1
Cylinders	2	Starting	Elec./recoil
		Battery	12 V dc
		Fuel	Diesel
		Fuel consumption	0.5 gph

Engine

PHYSICAL CHARACTERISTICS

	Operating/Shipping
Length	3 ft, 6 in.
Width	2 ft, 1 in.
Height	3 ft, 0 in.
Cube	22 cu ft
Weight	398 lb

AIR COMPRESSOR, 19 CFM @ 125 PSI, DIESEL

ESSM NUMBER AC0501

REFERENCES

- Yanmar Diesel Engine Operation Manual for L-Series Engine.
 Emglo Parts Price List J, 288.

Downloaded from http://www.everyspec.com



14-Cfm Air Compressor AC0500

AIR COMPRESSOR, 14 CFM @ 100 PSI, DIESEL

ESSM NUMBER AC0500

DESCRIPTION

The Air Compressor AC0500 is a diesel-powered, 14-cfm, air-cooled, single-stage, 4-cycle air compressor. The air compressor is used for boom inflation, operation of pneumatic-powered tools, and other needs that require low pressure, low volume air.

SPECIFICATIONS

Air Compressor Assembly

Manufacturer	Emglo Products
Model	22C125P17E

Air Compressor	En	gine
THE COMPTESSOR	<u> </u>	51110

Manufacturer	Emglo Products	Manufacturer	Teledyne Wisconsin Motor
Model	LCU	Model	WD1-436
Cylinders	4	Cylinders	1
Stage	Single	Cooled	Air
Bore/stroke	2 1/2 in./2 in.	Cycle	4
Displacement	13.6 cu in.	Starter	Electric generator/hand crank
Pressure	100 psig	Battery	12 V dc
Rpm	1725	Fuel	Diesel
Cooling	Air	Fuel consumption	0.5 gph

PHYSICAL CHARACTERISTICS

	Operating/Shipping
Length	3 ft, 6 in.
Width	2 ft, 1 in.
Height	3 ft, 0 in.
Cube	20 cu ft
Weight	530 lb

REFERENCES

- 1. Wisconsin Diesel Engine Parts Catalog, MM-367.
- 2. Emglo Products Corp. Parts List, L-983.



5' x 5' x 12" Machinery Containment Pool CP3000

CONTAINMENT POOL, MACHINERY, 5' x 5' x 12"

ESSM NUMBER CP3000

DESCRIPTION

The Machinery Containment Pool CP3000 is a 5' x 5' x 12" urethane berm. It is used to catch and contain any oil, fuel, or contaminants leaking or spilled from the component placed in the berm.

SPECIFICATIONS

Manufacturer Basic Concepts
Fabric material Cooley Urethane

PHYSICAL CHARACTERISTICS

	Shipping	<u>Operating</u>
Length	1 ft, 8 in.	5 ft, 0 in.
Width	1 ft, 8 in.	5 ft, 0 in.
Height	6 in.	1 ft, 0 in.
Cube	1.5 cu ft	25 cu ft
Weight	34 lb	34 lb

REFERENCES

None



Pneumatic 1-Inch Diaphragm Pump PU2103

PUMP, DIAPHRAGM, 1-INCH, PNEUMATIC

ESSM NUMBER PU2103

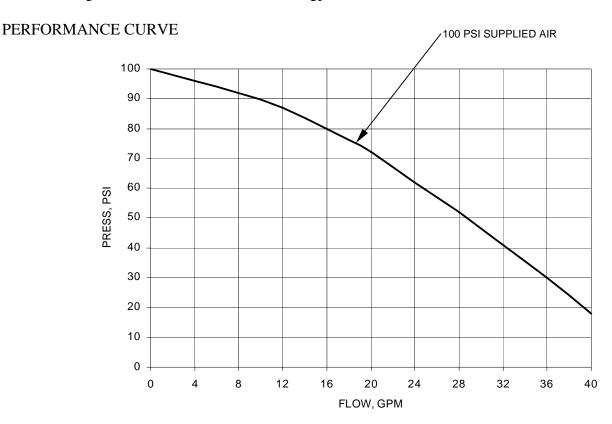
DESCRIPTION

The Pneumatic 1-Inch Diaphragm Pump PU2103 is made of aluminum and is typically used to move abrasive, heavy, viscous, corrosive and aggressive materials. The pump is used in applications where electricity is not available or cannot be used due to safety conditions. The diaphragm pump provides pollution-free and energy-efficient operation, with fewer moving parts than conventional motor-driven pumps.

SPECIFICATIONS

Pump Assembly

ManufacturerWarren RuppModelSA1-DB4ASuction1 in.Discharge1 in.Max. air supply pressure125 psiMax. discharge rate42 gpm



PUMP, DIAPHRAGM, 1-INCH, PNEUMATIC

ESSM NUMBER PU2103

PHYSICAL CHARACTERISTICS

\sim	. •	/01	•	•
Inoro	tina	/ \Ch	n	nina
	11119	/ . או		יעוווו
Opera			ישי	PIIIS

Length	2 ft, 2 in.
Width	1 ft, 0 in.
Height	1 ft, 0 in.
Cube	1.5 cu ft
Weight	36 lb

REFERENCES

1. Manufacturer's Pamphlet for Models SA1-a and SA25A.

Downloaded from http://www.everyspec.com



16' Polyester Roundslings SL0012 (4 per van)

ROUNDSLING, POLYESTER, 16'

ESSM NUMBER SL0012

DESCRIPTION

The 16' Polyester Roundsling SL0012 is an endless synthetic sling made from a skein (continuous loop or hank) of polyester yarn covered by a double-wall tubular jacket. Each sling is supplied with a 1" screw pin shackle. Four 16' Polyester Roundslings are used for lifting the van to which they are assigned.

SPECIFICATIONS

Sling		<u>Shackle</u>	
Manufacturer	Lift-All	Manufacturer	Crosby
Model	EN240	Part number	G-209-A
Vertical SWL	21,200 lb	Size	1 in.
Choker SWL	17,000 lb	Working load limit	25,000 lb
Basket SWL	42,400 lb	_	
Overall length	16 ft, 0 in.		

PHYSICAL CHARACTERISTICS

Operating/Shipping

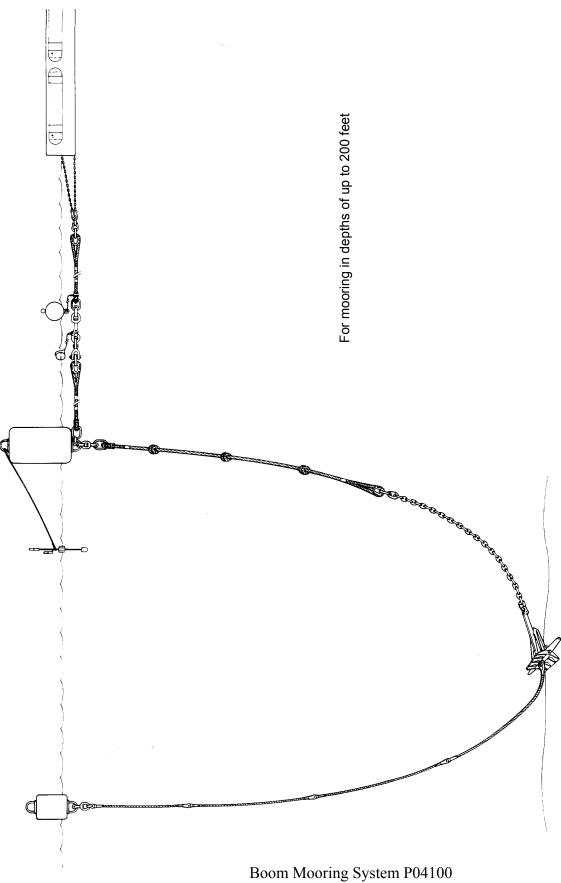
Length (operating)	16 ft, 0 in.
Cube (coiled for shipping)	4 cu ft
Weight	18 lb

REFERENCES

1. Lift-All 1998 Catalog.

Downloaded from http://www.everyspec.com

BOOM MOORING SYSTEM P04100



BOOM MOORING SYSTEM

SYSTEM NUMBER P04100

SYSTEM DESCRIPTION

The Boom Mooring System P04100 is comprised of a 500- or 1000-pound anchor, a mooring buoy, a crown buoy, chain, wire rope, and polypropylene line. The system is designed to hold the SUPSALV Oil Containment Boom in position around a casualty vessel or elsewhere in water depths up to 200 feet, against a 3-knot current.

SYSTEM COMPONENTS

<u>Item</u>	ESSM Number	<u>Qty</u>
1. Mooring System		1
a. Mooring System, Boom, w/500-Lb Anchor	MS0009	
Anchor, Stato, 500-Lb, Folding Stabilizer, Short Mud Palm	AN0152	1
Buoy, Mooring, 5000-Lb Buoyancy	BU0140	1
Buoy, Crown, 24" x 36", 350-Lb Buoyancy	BU0320	1
Chain, Stud Link, 21/4" x 90'	CH1093	1
b. Mooring System, Boom, w/1000-Lb Anchor	MS0011	
Anchor, Stato, 1000-Lb, Folding Lightweight Stabilizer	AN0153	1
Buoy, Mooring, 5000-LbBuoyancy	BU0140	1
Buoy, Crown, 24" x 36", 350-Lb buoyancy	BU0320	1
Chain, Stud Link, 2 1/4" x 90'	CH1093	1



Boom Mooring System MS0009

MOORING SYSTEM, BOOM W/500-LB ANCHOR

ESSM NUMBER MS0009

DESCRIPTION

The Boom Mooring System MS0009 consists of various components that include a mooring buoy, a crown buoy, a 500-lb anchor, chain, wire rope, and polypropylene line. The Boom Mooring System is designed to hold boom in position around a casualty vessel or in any area where water depths do not exceed 200 feet and currents do not exceed three knots. Three Boom Mooring Systems are required to hold 1000 feet of boom in position.

SPECIFICATIONS

Operating depth	Up to 200 ft
Mooring buoy	
Weight	700 lb
Buoyancy	5000 lb
Rated pull-through	10,000 lb
Dimensions	4 ft diameter x 7 ft, 4 in. long
Crown buoy	,
Weight	110 lb
Buoyancy	350 lb
Rated pull-through	10,000 lb
Dimensions	2 ft diameter x 3 ft long
Mooring cube	<u> </u>
Weight	3 1/2 lb
Buoyancy	49 lb
Dimensions	9 ft x 9 ft x 1 ft, 6 in.
Anchor (500-lb)	
Type	Stato w/folding stabilizers
Shaft length	4 ft, 2 1/2 in.
Fluke length	2 ft, 4 in.
Stabilizer length	1 ft, 6 in.
Fluke angle	34° w/ wedges; 50° w/out wedges
Holding power (calculated)	8800 lb in mud; 12,500 lb in sand;
	questionable in rocks or coral
Chain	•
Type	Stud link, anchor, low alloy steel,
	flash butt-welded (MIL-C-24633)
Size	2 1/4 in. or 2 5/16 in. diameter links, 90 ft long
Weight	4250 lb

MOORING SYSTEM, BOOM W/500-LB ANCHOR (CONTD)

ESSM NUMBER MS0009

SPECIFICATIONS (Cont'd)

Wire rope

Size 5/8 in. diameter

Working load 5680 lb

Polypropylene rope

Size 6 in. crcmf Working load 7333 lb

Polypropylene rope

Size 1 1/2 in. crcmf

Working load 633 lb

PHYSICAL CHARACTERISTICS

	Shipping
Length	8 ft, 4 in.
Width	4 ft, 0 in.
Height	8 ft, 4 in.
Cube	278 cu ft
Weight	8100 lb

REFERENCES

1. Operations and Maintenance Manual, Oil Containment Boom and Boom Mooring System, S9597-AC-MMO-010.

Downloaded from http://www.everyspec.com



Boom Mooring System MS0011

MOORING SYSTEM, BOOM W/1000-LB ANCHOR

ESSM NUMBER MS0011

DESCRIPTION

The Boom Mooring System MS0011 consists of various components that include a mooring buoy, a crown buoy, a 1000-lb anchor, chain, wire rope, and polypropylene line. The Boom Mooring System is designed to hold boom in position around a casualty vessel or in any area where water depths range from 200 to 600 feet and currents do not exceed three knots. The Boom Mooring System with the 1000-lb anchor is designed to be used with the Boom Mooring System Deep Water Extension. Three Boom Mooring Systems are required to hold 1000 feet of boom in position.

SPECIFICATIONS

Operating depth	200 ft to 600 ft
Mooring buoy	
Weight	700 lb
Buoyancy	5000 lb
Rated pull-through	10,000 lb
Dimensions	4 ft diameter by 7 ft, 4 in. long
Crown buoy	
Weight	110 lb
Buoyancy	350 lb
Rated pull-through	10,000 lb
Dimensions	2 ft diameter x 3 ft long
Mooring cube	-
Weight	3 1/2 lb
Buoyancy	49 lb
Dimensions	9 ft x 9 ft x 1 ft, 6 in.
Anchor (1000-lb)	
Type	Stato w/folding stabilizers
Shank length	7 ft, 4 in.
Fluke length	4 ft, 3 in.
Stabilizer length	1 ft, 11 1/2 in.
Fluke angle	34° w/ wedges; 50° w/out wedges
Holding power	17,600 lb in mud; 25,500 lb in sand;
	questionable in rocks or coral
Chain	
Type	Stud link, anchor, low alloy steel,
	flash butt-welded (MIL-C-24633)
Size	2 1/4 in. or 2 5/16 in. diameter links, 90 ft long
Weight	4250 lb

MOORING SYSTEM, BOOM W/1000-LB ANCHOR (CONTD)

ESSM NUMBER MS0011

SPECIFICATIONS (Cont'd)

Wire rope

Size 5/8 in. diameter

Working load 5680 lb

Polypropylene rope

Size 6 in. cremf Working load 7333 lb

Polypropylene rope

Size 1 1/2 in. crcmf

Working load 633 lb

PHYSICAL CHARACTERISTICS

	Shipping
Length	8 ft, 4 in.
Width	4 ft, 0 in.
Height	8 ft, 4 in.
Cube	278 cu ft
Weight	8600 lb

REFERENCES

1. Operations and Maintenance Manual, Oil Containment Boom and Boom Mooring System, S9597 AC-MMO-010.

Downloaded from http://www.everyspec.com



500-Lb Stato Anchor with Short Mud Palm and Folding Stablizers AN0152

ANCHOR, STATO, 500-LB, FOLDING STABLIZER, SHORT MUD PALM

ESSM NUMBER AN0152

DESCRIPTION

The 500-Lb Stato Anchor with Short Mud Palm and Folding Stabilizers AN0152 was developed for use in both sand and mud bottoms. The anchor incorporates design characteristics that enhance burial and increase holding power.

SPECIFICATIONS

Manufacturer Various, U.S. Navy Design

Type 500 lb Stato

PHYSICAL CHARACTERISTICS

Operating	
4 ft, 8 in.	
2 ft, 8 in.	
1 ft, 9 in.	
24 cu ft	
500 lb	

REFERENCES

None



1000-Lb Stato Anchor with Folding Lightweight Stablizers AN0153

ANCHOR, STATO, 1000-LB, FOLDING LIGHTWEIGHT STABLIZER

ESSM NUMBER AN0153

DESCRIPTION

The 1000-lb Stato Anchor with Folding Lightweight Stabilizers AN0153 was developed for use in both sand and mud bottoms. The anchor incorporates design characteristics that enhance burial and increase holding power.

SPECIFICATIONS

Manufacturer Various, U.S. Navy Design

Type 1000 lb Stato

PHYSICAL CHARACTERISTICS

Operating	
8 ft, 4 in.	
6 ft, 5 in.	
2 ft, 3 in.	
120 cu ft	
1000 lb	

REFERENCES

None



Mooring Buoy BU0140

BUOY, MOORING, 5000-LB BUOYANCY

ESSM NUMBER BU0140

DESCRIPTION

The Mooring Buoy BU0140 is designed to provide buoyancy to the anchor line so that boom or boats can be fastened to the Boom Mooring System.

SPECIFICATIONS

Manufacturer Seaward International

Material Polyethylene foam/urethane cover

Buoyancy 5000 lb Rated pull-through 10,000 lb Operating depth 200 feet

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length 9 ft, 1 in
Diameter 3 ft, 10 in.
Cube 134 cu ft
Weight 748 lb

REFERENCES

None



Crown Buoy BU0320

BUOY, CROWN, 350-LB BUOYANCY, 24" X 36"

ESSM NUMBER BU0320

DESCRIPTION

The Crown Buoy BU0320 marks the location of the anchor and supports the wire rope attached to the crown of the anchor. The anchor crown wire rope is used to break out the anchor for retrieval.

SPECIFICATIONS

Manufacturer Seaward International

Material Polyethylene foam/urethane cover

Buoyancy 350 lb Rated pull-through 10,000 lb Operating depth 200 feet

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length 4 ft, 0 in.
Diameter 2 ft, 0 in.
Cube 16 cu ft
Weight 228 lb

REFERENCES

None



2 1/4" x 90' Stud Link Chain CH1093

CHAIN, STUD LINK, 2 1/4" x 90'

ESSM NUMBER CH1093

The 2 1/4" x 90' Stud Link Chain CH1093 is connected to the anchor shank with a safety shackle and a pear-shaped detachable link. The other end of the anchor chain is attached to a polypropylene anchor line (6" circumference) by another pear-shaped detachable link. The anchor line is then attached to the mooring buoy.

SPECIFICATIONS

Link size	2 1/4 in.
Length	90 ft
Proof test load	396,000 lb
Break test load	570,000 lb

PHYSICAL CHARACTERISTICS

	Shipping
Length	5 ft, 2 in.
Width	3 ft, 0 in.
Height	3 ft, 6 in.
Cube	54.25 cu ft
Weight	4940 lb

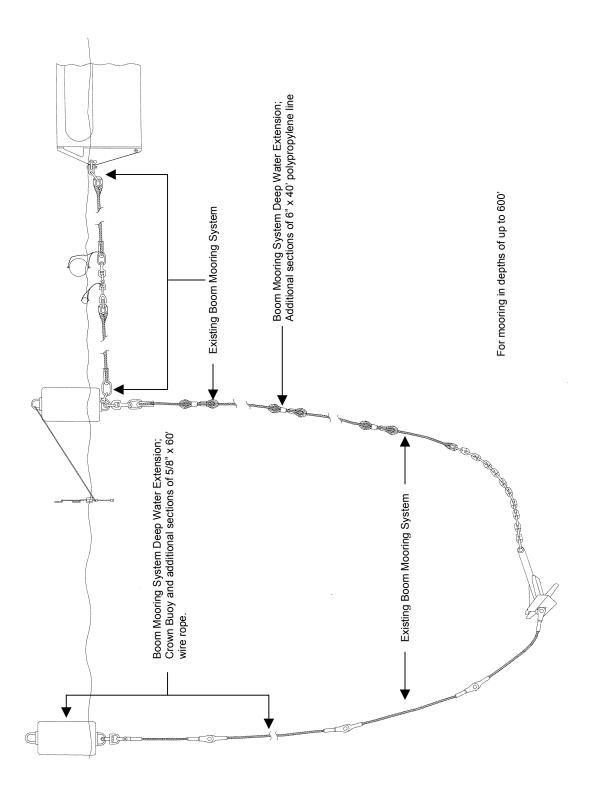
REFERENCES

1. Baldt Catalog #30 for Anchors and Chains.

Shinning

Downloaded from http://www.everyspec.com

BOOM MOORING SYSTEM DEEP WATER EXTENSION P04200



Boom Mooring System Deep Water Extension P04200

BOOM MOORING SYSTEM DEEP WATER EXTENSION

SYSTEM NUMBER P04200

SYSTEM DESCRIPTION

The Boom Mooring System Deep Water Extension P04200 consists of a Mooring Buoy BU0140 used as a crown buoy, eight 5/8" x 50' sections of wire rope, fifteen 6" x 40' sections of polypropylene line, and the necessary hardware needed to extend the working depths of a mooring system from the depth of 200 feet up to a depth of 600 feet.

SYSTEM COMPONENTS

<u>Item</u>	ESSM Number	<u>Qty</u>
1. Buoy, Mooring, 5000-Lb Buoyancy	BU0140	1
2. Deep Water Extension, Boom Mooring System	MS0020	1



Mooring Buoy BU0140

BUOY, MOORING, 5000# BUOYANCY

ESSM NUMBER BU0140

DESCRIPTION

The Mooring Buoy BU0140 is designed to moor boom, boats, or other objects that are to be held in a designated area where the water depth is 200 feet or less. Its use in the Boom Mooring System Deep Water Extension is as a crown buoy to support the additional weight of the eight 5/8" x 50' sections of wire rope needed to extend the working depth of the mooring system to 600'.

SPECIFICATIONS

Manufacturer Seaward International, Inc.

Material Polyethylene foam/urethane cover

Buoyancy 5000 lb Rated pull-through 10,000 lb Operating depth 200 feet

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length 9 ft, 1 in.
Diameter 3 ft, 10 in.
Cube 134 cu ft
Weight 748 lb

REFERENCES

None



Boom Mooring System Deep Water Extension MS0020

DEEP WATER EXTENSION, MOORING SYSTEM, BOOM

ESSM NUMBER MS0020

DESCRIPTION

The Boom Mooring System Deep Water Extension MS0020 is used to extend the working depth of the boom mooring leg to a depth of 600 feet. The system is designed to be used in conjunction with a Boom Mooring System when the depth of water exceeds 200 feet but is not greater than 600 feet.

SPECIFICATIONS

Operating depth Up to 600 ft

Mooring buoy

Weight 834 lb
Buoyancy 5000 lb
Rated pull-through 10,000 lb

Dimensions 3 ft, 10 in. diameter x 9 feet, 1 in.

PHYSICAL CHARACTERISTICS

	Shipping
Length	9 ft, 1 in.
Width	4 ft, 0 in.
Height	7 ft, 1 in.
Cube	258 cu ft
Weight	2260 lb

REFERENCES

1. Operations and Maintenance Manual, Oil Containment Boom and Boom Mooring System, 9507-AC-MM0-010.

Downloaded from http://www.everyspec.com

BOOM HANDLING BOAT P03100





Boom Handling Boat WB0722

BOOM HANDLING BOAT

SYSTEM NUMBER P03100

SYSTEM DESCRIPTION

The Boom Handling Boat (BHB) System P03100 consists of a 24-foot boom handling boat, a VHF marine mobile radio, a CB marine radio, a radar unit, a 4-leg roundsling bridle for lifting the boat, and a tool box with appropriate tools for maintaining the boom handling boat system. The system also provides a boat cradle or a trailer for storage and shipping of the 24' Boom Handling Boat WB0722.

The 24' Boom Handling Boat is an all welded aluminum, single-screw craft that has been designed with removable bow sections. The boat can be shipped with the two bow sections removed and stowed on the after deck and the boat placed in the shipping cradle. Or it can be shipped with the bow sections in place and the boat placed on the boat trailer. There are presently only two boat trailers in the system and they are located at the ESSM facility in Hawaii.

The BHB is equipped with a four-point lift system. It has a 3000-pound bollard pull capacity, and can run at speeds up to 16.5 knots. The Boom Handling Boat System P03100 provides a powerful all-weather towboat for handling the containment boom and skimmer systems.

SYSTEM COMPONENTS

<u>Ite</u>	<u>m</u>	ESSM Number	<u>Qty</u>
1.	Cradle, 24' Boom Handling Boat	BC0722	1
2.	Trailer, 24' BHB WB0722	TR0944 (Optional)	1
3.	Boat		
	a. 24' Boom Handling	WB0722A	1
	b. 24' Boom Handling	WB0722B (Altn)	1*
	c. 24' Boom Handling	WB0722C (Altn)	1*
	d. 24' Boom Handling	WB0722D (Altn)	1*
	e. 24' Boom Handling	WB0722E (Altn)	1*
	Radio, CB, Marine Mobile	RA1709	1
	Radio:		1
	VHF, Marine Mobile, Voyager (78-Channel)	RA1830 (Altn)	
	VHF, Marine Mobile, Icom (58-Channel)	RA1831	
	Radar, Model 1730/1731	RD0001	1
	Roundsling Bridle, Polyester, 4-Leg, 11' 6"	SL0350	1
	Tool Box, 24' BHB	TL0030	1

^{*}Alternate ESSM configurations for the 24' Boom Handling Boats are functionally equivalent to WB0722A and are not shown in the catalog.



24' Boom Handling Boat Cradle BC0722 With 24' Boom Handling Boat

CRADLE, 24' BOOM HANDLING BOAT

ESSM NUMBER BC0722

DESCRIPTION

The 24' Boom Handling Boat Cradle (BC0722) is constructed from 3 1/2" steel channel and is made to fit the contour of the hull of the Boom Handling Boat. To prevent damage to the bottom of the boat the cradle supports are fitted with 4" x 4" oak timbers covered with indoor-outdoor carpet and are bolted to the three sets of cradle supports.

The 24' Boom Handling Boat Cradle (BC0722) is used as a storage and shipping cradle for transportation on military air cargo planes or on over-the-road flatbed trailers.

SPECIFICATIONS

Manufacturer Monark

PHYSICAL CHARACTERISTICS

	Shipping
Length	18 ft, 0 in
Width	7 ft, 1 in.
Height	2 ft, 4 in.
Cube	298 cu ft
Weight	1500 lb

REFERENCES

1. 24' Boom Handling Boat Cradle, NAVSEA Dwg. 6147160.



Boom Handling Boat Trailer TR0944

TRAILER FOR WB0722, 24' BHB

ESSM NUMBER TR0944

DESCRIPTION

The Boom Handling Boat (BHB) Trailer TR0944 is a 10,000-pound capacity trailer used to transport, launch, and recover the 24-foot BHB. It is also used as a storage platform when the boat is not in use. The trailer is equipped with an electrically operated winch, surge-type brakes, and an adjustable suspension.

SPECIFICATIONS

Manufacturer Monark
Part number 009102
Capacity 10,000 lb

Construction Welded steel (galvanized)

Hitch type Dico Model 20 Surge Brake w/ball hitch 2 5/16"

Wheel bearing Roller with greaseable hubs

Tire size 7.50 x 16 ST

Air pressure 95 psi

Quantity 5 (includes spare)
Brakes Bendix (2" x 12") shoes

Winch manufacturer Powerwinch Co.

Model 912-C

Capacity 6000 lb; double line

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length (trailer only)30 ft, 0 in.Width8 ft, 0 in.Height (trailer only)5 ft, 0 in.Cube (trailer only)1200 cu ftWeight (trailer only)4000 lb

REFERENCES

None



Boom Handling Boat WB0722A, Cradle Shipping Configuration (Bow Removed)



Boom Handling Boat WB0722A, Trailer Shipping Configuration

BOAT, 24', BOOM HANDLING

ESSM NUMBER WB0722A

DESCRIPTION

Boom Handling Boat (BHB) WB0722A is a powerful all-weather towboat used for handling containment boom, towing V-boom skimming systems, and transporting personnel and equipment to either inshore or offshore spill sites. There are 5 different series of boats made by various manufacturers.

SPECIFICATIONS

Boat		<u>Engine</u>	
Manufacturer		Manufacturer	Detroit Diesel
0 Series	Monark	Model	5062-7300
20 Series	Peterson	Type	6V-53TI
30 Series	Miller Marine	Cylinders	6
40 Series	Monark	Bore	3.875 in.
90 Series	SeaArk Marine	Stroke	4.5 in.
Model	24 foot	Displacement	318 cu in.
Sections	3	Compression ratio	17:1
Design draft	3 ft, 2 in.	Shaft horsepower	260 @ 2800 rpm
Freeboard fwd	2 ft, 8 in.	Main bearings	4
Freeboard aft	2 ft, 6 in.	Starter	Electric
Max load capacity	2050 lb	Battery	12 V dc
Passengers	4 plus operator	Alternator	60 A
Bollard pull	3000 lb	Fuel	Diesel
		Fuel source	Integral 16.5-gal. tank (2)
		Fuel consumption	12.5 gph

PHYSICAL CHARACTERISTICS

	<u>Operating</u>	Shipping
Length	24 ft, 9 in.	20 ft, 8 in.
Beam	8 ft, 0 in.	8 ft, 0 in.
Height	8 ft, 8 in.	8 ft, 3 in.
Cube	1716 cu ft	1364 cu ft
Weight	9700 lb	9700 lb
Weight (cradle)	NA	795 lb
Weight (boat & cradle)	NA	10,495 lb

BOAT, 24', BOOM HANDLING (CONTD)

ESSM NUMBER WB0722A

REFERENCES

- 1. Monark Aluminum Work Boat Owner's Manual.
- 2. Twin Disc Service Manual MG-506.
- 3. Twin Disc Service Manual MG-507.
- 4. Detroit Diesel Operator's Manual 53 Series.
- 5. Detroit Diesel Service Manual 53 Series.
- 6. Detroit Diesel Field Service Data.
- 7. Detroit Diesel Parts Manual 53 Series.
- 8. NAVSEA Boat Information Book for 24' Boom Handling Boat, S9077-BX-BIM-010.

Downloaded from http://www.everyspec.com



CB Marine Mobile Radio RA1709

RADIO, CB, MARINE MOBILE

ESSM NUMBER RA1709

DESCRIPTION

The Marine Mobile Citizens Band (CB) Radio RA1709 is designed for marine use. Features include the ability to receive four of the National Oceanic and Atmospheric Administration (NOAA) weather channels. The CB 40 + 4 radio has 44 channels; 40 CB and 4 weather channels. The 40 CB channels can be used for transmitting and receiving; whereas, the 4 weather channels are for receiving only.

SPECIFICATIONS

Manufacturer	Commercial
--------------	------------

Frequency range

Citizens band 26.965 to 27.405 MHz
Weather band (receive only) 161.665 to 162.550 MHz

Channels total: 44
Citizens band 40
Weather band 4

Input voltage 13.8 V dc $\pm 20\%$ Temperature range -20°C to +50°C

Transmitter (citizens band only)

RF output 4 W maximum

Receiver (CB)

Audio output at 10% distortion 5 W

Audio response 300 Hz to 3 kHz, 3 dB

Channel spacing 10 kHz Hum and noise at 100 kV 45 dB

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length	9 in.
Width	6 in.
Height	2 in.
Weight	3 lb
Cube	1 cu ft

REFERENCES

1. Owners Manual, CB 40 + 4 H-Watt Citizens Band Marine Transceiver.



VHF Marine Mobile Radio (Voyager, 76-Channel) RA1830

RADIO, VHF, MARINE MOBILE, VOYAGER (76-CHANNEL)

ESSM NUMBER RA1830

DESCRIPTION

The Horizon Voyager GX2200S Marine Mobile Radio RA1830 is a marine VHF/FM transceiver with public address system and intercom features in a single moisture-resistant console. The Horizon Voyager requires 13.8 V dc for operation, can develop a switchable RF output power of 1 watt or 25 watts, and operates in the frequency range of 156.050 to 163.275 MHz.

The Horizon Voyager has a capacity of 76 channels: 55 programmed marine transmit/receive channels, 6 weather channels, and 15 transmit/receive expansion channels. The 55 marine channels are switchable for use with USA, international, or Canadian regulations. Should the FCC increase the number of marine channels, the Voyager may be programmed by qualified dealers for 15 new transmit and receive frequencies. The one-touch Channel 16 access allows immediate selection of emergency Channel 16.

SPECIFICATIONS

Manufacturer Standard

Model Horizon Voyager GX2200S

Channels 76 total: 55 marine

6 weather 15 expansion

Input voltage $13.8 \text{ V dc} \pm 20\%$

Frequency range 156.050 to 163.275 MHz

Transmitter RF output 25 W high; 1 W low

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length8 in.Width7 in.Height2 in.Cube1 cu ftWeight3 lb

REFERENCES

1. Horizon Voyager GX2200S Owner's Manual.



VHF Marine Mobile Radio RA1831

RADIO, VHF, MARINE MOBILE, ICOM (58-CHANNEL)

ESSM NUMBER RA1831

DESCRIPTION

The Icom VHF Marine Mobile Radio RA1831 is a marine VHF/FM transceiver with intercom features and a public address system in a moisture-resistant console. The radio requires a supply voltage of 13.8-volt dc negative ground and operates in the frequency range of 156-163 MHz. The radio has 58 programmed marine transmit/receiver channels and 10 weather channels.

The radio has the following advanced features: voltage source deviation indicator; 25W of high transmission output power; dual watch and a variety of scans; 20 user-programmed memory channels; momentary high power on Channels 13 and 67; single-tone, double high-tone, and double low-tone beeps; high sensitivity and strong intermodulation rejection; and a built-in lithium battery to retain the information programmed into the memory channels. The life of the lithium battery is approximately 5 years. The Icom radio models IC-M56, IC-M58, and IC-M402S are currently in use in the ESSMIS system with appropriate instruction manuals. All models are functionally equivalent.

SPECIFICATIONS

Manufacturer Icom
Model(s) IC-M56
IC-M58

IC-M402S

Usable temperature range -20° to +60°C (-4 to +140°F) Power supply voltage 13.8 V dc negative ground

Channels:

Transmit 58
Weather 10

Receiver:

Frequency range 156 to 163 MHz

Sensitivity .3µV for 12 dB SINAD Audio output power 4W with a 4-ohm load

Intermediate frequency 1st: 21.8 MHz; 2nd: 455 kHz

Transmitter:

Frequency range 156 to 157.5 MHz Output power 25 W high; 1 W low

RADIO, VHF, MARINE MOBILE, ICOM (58-CHANNEL) (CONTD)

ESSM NUMBER RA1831

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length8 in.Width7 in.Height2 in.Cube1 cu ftWeight3 lb

REFERENCES

- 1. Instruction Manual, Icom IC-M56.
- 2. Instruction Manual, Icom IC-M58.
- 3. Instruction Manual, Icom IC-M402S.

Downloaded from http://www.everyspec.com



Radar Model 1730 RD0001



Shipping Container for Radar RD0001

RADAR, MODEL 1730/1731

ESSM NUMBER RD0001

DESCRIPTION

The Furuno Model 1730/1731 Radar RD0001 is a standard radar (radio detection and ranging) unit used to indicate a target object's range and bearing location. The radar unit determines the distance to a target by calculating the time difference between the transmission of a radar signal and reception of the reflected echo

The range and bearing of a target is displayed on a visual indicating screen. This display shows the transmitting ship's position at the center. Target image echoes are received and displayed as a sight signal on the visual display screen and show the distance and relative bearing from the transmitting vessel. The motion of the transmitting ship is also displayed along with the target images.

SPECIFICATIONS

Manufacturer	Furun	O						
Scanner unit								
Peak output power	3 kW	nomina	ıl					
Display unit								
Indication system	Raster	r scan, o	dayligh	t displa	ay			
Picture tube	7 in. d	liagona	l, green	phosp	hor CR	T		
Range (nm)	0.25	0.5	1	2	4	8	1	24
Range ring interval (nm)	0.125	0.25	0.5	1	2	4	4	4
Number of rings	2	4	4	4	4	4	4	4
Interference rejecter	Built-	in						
Display Unit								
Ambient temperature	Scanner unit: -25°C to +70°C							
	Display unit: -15°C to +55°C							
Humidity	Relative humidity 95% or less at +40°C							
Power supply & consumption	10.2 V dc - 40.0 V dc, 47 W approx. (25 W approx. in economy mode) 100/110/220/230 V ac, 50/60 Hz, 1 rectifier required							
	100/1	10/220/	230 V	ac, 50/	oo me,	1 1001111	.cr requi	ircu

RADAR, MODEL 1730/1731 (CONTD)

ESSM NUMBER RD0001

PHYSICAL CHARACTERISTICS

	Operating/Shipping
Length	2 ft, 9 in.
Width	2 ft, 9 in.
Height	2 ft, 9 in.
Weight	170 lb
Cube	21 cu ft

REFERENCES

- 1. Operator's Manual, Marine Radar Furuno Model 1730, OM-E3330-OA.
- 2. Service Manual, Marine Radar Furuno Model 1730, SM-E3330-OA.

Downloaded from http://www.everyspec.com



11' 6", 4-Leg, Roundsling Bridle SL0350

ROUNDSLING BRIDLE, POLYESTER, 4-LEG, 11-FOOT, 6-INCH

ESSM NUMBER SL0350

DESCRIPTION

The 11' 6" 4-Leg Polyester Roundsling Bridle SL0350 is designed specifically for handling the 24' Boom Handling Boat WB0722 in an under-the-hook configuration using a crane. It is equipped with four screw pin shackles and is shipped in the bow compartment of the boom handling boat.

SPECIFICATIONS

	Roundsling Bridle	Shackle (4 each)
Manufacturer	Lift-All	Crosby
Model	EN150	G-209
Safe working load	13,200 lb	6 1/2 ton
Size	11' 6"	7/8" screw pin

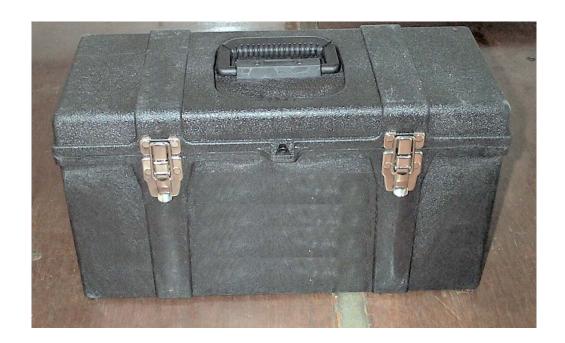
PHYSICAL CHARACTERISTICS

Operating/Shipping

Length	11 ft, 6 in. (Continuous loop)
Cube (coiled for shipping)	4 cu ft
Weight	14 lb

REFERENCES

1. Lift-All Catalog, 1998.



24' BHB Tool Box TL0030

TOOL BOX, 24' BHB

ESSM NUMBER TL0030

DESCRIPTION

The 24' BHB Tool Box TL0030 is a basic mechanic's tool set that contains 1/2" drive sockets and accessories, combination, open end and adjustable wrenches, pliers, hammers and other miscellaneous tools. It contains the necessary tools to set up and perform basic repairs on the 24' Boom Handling Boat WB0722.

SPECIFICATIONS

Manufacturer ESSM Facility

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length 2 ft, 2 in.
Width 10 in.
Height 11 in.
Cube 2 cu ft
Weight 48 lb

REFERENCES

None

Downloaded from http://www.everyspec.com

BOOM TENDING BOAT (RIGID) P03200





18' Boom Tending Boat WB0942

BOOM TENDING BOAT (RIGID)

SYSTEM NUMBER P03200

SYSTEM DESCRIPTION

The Boom Tending Boat System P03200 consists of an 18-foot rigid-hulled utility boat, an outboard motor, a tool box, and a boat trailer.

The 18' boat is equipped and shipped with the following ancillary equipment onboard: life preservers, anchor and anchor line, mooring lines, tow line, boat hook, boat plug, horn, compass, fire extinguisher, first aid kit, flare kit, boat paddle, radar reflector, and tool box.

The Boom Tending Boat System is used for inspecting, repairing, or reinflating moored containment boom systems, and other miscellaneous tasks in protected, shallow water areas.

SYSTEM COMPONENTS

<u>Item</u>	ESSM Number	<u>Qty</u>
1. Boat, 18' Boom Tending	WB0942	1
Motor, Outboard		1
115-Hp	MT0943	
120-Hp	MT0946 (Altn)	
90-Hp	MT0948 (Altn)	
90-Hp, 4-Stroke	MT0050 (Altn)	
Trailer, for WB0942 BTB	TR0936	1
Tool Box, 18' Boom Tending Boat	TL0050	1



18' Boom Tending Boat WB0942

BOAT, 18' BOOM TENDING

ESSM NUMBER WB0942

DESCRIPTION

The 18' Boom Tending Boat (BTB) WB0942 is a rigid-hulled, fiberglass boat used for tending, inspecting, and repairing containment boom systems and for transporting material and personnel in protected shallow water areas. The boat is powered by a 115-, 120-, or 90-horsepower outboard motor, and can be launched and retrieved from a trailer or by a crane with slings. The boat is operated by one crewman and has a total capacity for up to three additional passengers/crew. It has navigational lights for night operations and a center console with steering and throttle controls.

SPECIFICATIONS

Manufacturer	Uniflite
	Boston Whaler
Model	18UB
	18BT
Material	Fiberglass
Max. load capacity	5000 lb
Draft (full load)	10 3/4 in.
Displacement (full load)	2600 lb
Propulsion	Outboard motor
Fuel	Gasoline
Fuel capacity	36 gallons (2 tanks)
Crew/passengers	1/3
Electrical system	12 V dc
Turning radius (full power)	40 yards

PHYSICAL CHARACTERISTICS

	<u>Boat</u>	Trailer w/boat (shipping)
Length Width Height Cube Weight	17 ft, 6 in. 7 ft, 0 in. 4 ft, 3 in. 521 cu ft 2270 lb	21 ft, 0 in. 8 ft, 0 in. 6 ft, 1 in. 1022 cu ft 2820 lb

REFERENCES

1. NAVSEA Boat Information Book, 18' Utility, S9007-BW-BIM-010.



115-Hp Outboard Motor MT0943

MOTOR, OUTBOARD, 115-HP

ESSM NUMBER MT0943

DESCRIPTION

The 115-Hp Outboard Motor MT0943 is used to power the Boom Tending Boat WB0942. The 2-cycle gasoline motor has a V-4 cylinder arrangement with power trim and tilt positioning and a variable ratio oiling (VRO) system that mixes oil with the gasoline as it enters the carburetor. Some of the outboard motors are not equipped with a VRO system and require a 50-to-1 oil mixture added to the gasoline tank.

SPECIFICATIONS

Manufacturer Johnson

Number of cylinders 4

Full throttle operating range 5000 to 6000 rpm

RPM at idle, in gear, w/propeller
Bore/Stroke
Piston displacement
Starter

650 rpm
3.500"/2.860"
110 cu. in.
Electric, 12 V dc

Propeller 14 1/2" diameter x 19" pitch

Horsepower 115

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length	3 ft, 0 in.
Width	2 ft, 0 in.
Height	5 ft, 0 in.
Cube	30 cu ft
Weight	365 lb

REFERENCES

1. OMC Outboard Service Manual, Models 2 through V-6; 507508, 1 through 12.



120-Hp Outboard Motor MT0946

MOTOR, OUTBOARD, 120-HP

ESSM NUMBER MT0946

DESCRIPTION

The 120-Hp Outboard Motor MT0946 is used to power the Boom Tending Boat WB0942. The 2-cycle gasoline motor has a V-4 cylinder arrangement with power trim and tilt positioning and a variable ratio oiling (VRO) system that mixes oil with the gasoline as it enters the carburetor. Some of the outboard motors are not equipped with a VRO system and require a 50-to-1 oil mixture added to the gasoline tank.

SPECIFICATIONS

Manufacturer Johnson

Number of cylinders 4

Full throttle operating range 5000 to 6000 rpm

RPM at idle, in gear, w/propeller
Bore/stroke
Piston displacement
Starter

650 rpm
3.500"/2.860"
110 cu. in.
Electric, 12 V dc

Propeller 14 1/2" diameter x 19" pitch

Horsepower 120

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length	3 ft, 0 in.
Width	2 ft, 0 in.
Height	5 ft, 0 in.
Cube	30 cu ft
Weight	365 lb

REFERENCES

1. OMC Outboard Service Manual, Models 2 through V-6; 507508, 1 through 12.



90-Hp Outboard Motor MT0948

MOTOR, OUTBOARD, 90-HP

ESSM NUMBER MT0948

DESCRIPTION

The 90-Hp Outboard Motor MT0948 is a 2-cycle gasoline motor used to power the Boom Tending Boat WB0942.

SPECIFICATIONS

Manufacturer	Johnson
Model	J90SLEDR
Max. operating rpm	4500 - 5500 rpm
Idle (in gear)	600 - 700 rpm
Cylinders	4
Bore/stroke	3.600"/2.588"
Piston displacement	105.4 cu in.
Horsepower	90
Starting	Electric, 12 V dc

PHYSICAL CHARACTERISTICS

	<u>Operating</u>	Shipping
Length	2 ft, 10 in.	3 ft, 6 in.
Width	1 ft, 6 in.	2 ft, 2 in.
Height	4 ft, 8 in.	5 ft, 4 in.
Cube	20 cu ft	40 cu ft
Weight	319 lb	484 lb

REFERENCES

1. OMC Service Manual, P/N 507127.



90-Hp, 4-Stroke Outboard Motor MT0050

MOTOR, OUTBOARD, 90-HP, 4-STROKE

ESSM NUMBER MT0050

DESCRIPTION

The 90-Hp, 4-Stroke Outboard Motor MT0050 is used to power the Boom Tending Boat WB0942. It is a 3 cylinder, in-line motor with power trim and tilt positioning. It is lubricated by a single point variable ratio oil injection system that mixes oil with the gasoline as it enters the carburetor.

SPECIFICATIONS

Manufacturer Mercury

Number of cylinders 3

Full throttle operating range 5000 to 5500 rpm Bore/stroke 3.500"/2.930"
Piston displacement 84.6 cu. in.
Starter Electric, 12 V dc

Shaft length 20"

Propeller 14" diameter x 13 3/8" pitch

Horsepower 90

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length	2 ft, 7 in.
Width	1 ft, 6 in.
Height	5 ft, 6 in.
Cube	30 cu ft
Weight	348 lb

REFERENCES

1. Manual, Outboard Motor, 75/90-Hp, 4-Stroke, Mercury Marine, 90-10215010.



Trailer for 18' BTB TR0936

TRAILER FOR WB0942 18' BTB BOAT

ESSM NUMBER TR0936

DESCRIPTION

The 18' Boom Tending Boat (BTB) Trailer TR0936 is constructed of welded steel and is primarily used to transport one 18' BTB WB0942 over land, and for launching and recovering the boat into and out of water without the use of a crane. The trailer is equipped with a winch, lights for towing, a hydraulic surge brake system, and a utility box for storing the jack, lug wrench, and other equipment.

SPECIFICATIONS

EZ Loader Boat Trailer Inc.
EZL96 15-18'
3100 lb
2"
3
1
1

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length	19 ft, 7 in
Width	8 ft, 0 in.
Height	4 ft, 0 in.
Cube	627 cu ft
Weight	550 lb

REFERENCES

None



18' Boom Tending Boat Tool Box TL0050

TOOL BOX, 18' BOOM TENDING BOAT

ESSM NUMBER TL0050

DESCRIPTION

The 18' Boom Tending Boat Tool Box TL0050 is a basic tool set consisting of a flushing attachment, a fuel line, light bulbs, motor oil, a 3/8" ratchet and spark plug socket, adjustable wrenches, a 3/8" x 7/8" open end wrench, a #2 Phillips screwdriver and a 1/4" standard screwdriver.

SPECIFICATIONS

Manufacturer of tool box Contico
Manufacturer of tools Commercial

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length 1 ft, 7 in.
Width 11 in.
Height 11 in.
Cube 1 cu ft
Weight 20 lb

REFERENCES

None

Downloaded from http://www.everyspec.com

BOOM TENDING BOAT (INFLATABLE) P03300



Shipping Container VA2260



Shipping Container VA2264



Shipping Container VA2265



19' Inflatable Boat WB0730



23' Inflatable Boat WB0732



50-Hp, 4-Stroke Outboard MT0938



50-Hp, 2-Stroke Outboard MT0939



70-Hp, 4-Stroke Outboard MT0045



70-Hp, 2-Stroke Outboard MT0942



VHF Marine Mobile Radio RA1830



VHF Marine Mobile Radio RA1831



Tool Box TL0055/TL0060

P03300 System Equipment Overview

BOOM TENDING BOAT (INFLATABLE)

SYSTEM NUMBER P03300

SYSTEM DESCRIPTION

The Inflatable Boom Tending Boat System P03300 consists of a choice of either a 19- or 23-foot inflatable multipurpose boat with twin outboard motors. The system also contains a 58-channel VHF marine radio, aluminum floorboards, paddles, running lights, stern light, boat hook, windshield and console assembly, and all necessary ancillary equipment to operate and maintain the inflatable boats. The system is used to transport personnel, equipment, and supplies. The inflatable boats are particularly suitable for work in rough weather alongside large support vessels.

SYSTEM COMPONENTS

<u>Item</u>	ESSM Number	<u>Qty</u>
1. Van, Shipping Container:		1
a. 19' Inflatable Boat:	VA2260	
Boat, 19', Inflatable, MK V HD, w/Twin 50-Hp Motors	WB0730	1
Motor, Outboard, 50-Hp, 4-Stroke	MT0938	2
Motor, Outboard, 50-Hp, 2-Stroke	MT0939 (Altn)	2
Radio, VHF, Marine Mobile, Voyager (76-Channel)	RA1830 (Altn)	1
Radio, VHF, Marine Mobile, Icom (58-Channel)	RA1831	1
Tool Box, 19' Inflatable Boat	TL0055	1
b. 23' Inflatable Boat (10'):	VA2264	
23' Inflatable Boat (8'):	VA2265 (Altn)	
Boat, 23', Inflatable, MK VI HD, w/Twin 70-Hp Motors	WB0732	1
Motor, Outboard, 70-Hp, 4-Stroke	MT0045	2
Motor, Outboard, 70-Hp, 2-Stroke	MT0942 (Altn)	2
Radio, VHF, Marine Mobile, Voyager (76-Channel)	RA1830 (Altn)	1
Radio, VHF, Marine Mobile, Icom (58-Channel)	RA1831	1
Tool Box, 23' Inflatable Boat	TL0060	1



19' Inflatable Boat Shipping Container VA2260

VAN, SHIPPING CONTAINER, 19' INFLATABLE BOAT

ESSM NUMBER VA2260

DESCRIPTION

The Shipping Container VA2260 is used to store and ship the inflatable 19-foot Zodiac workboat. The van contains a 19-foot inflatable boat, two 50-hp outboard motors, fuel tanks, spare parts, toolbox, anchor, and necessary ancillary equipment to operate and maintain the 19-foot boat while in the field.

SPECIFICATIONS

Manufacturer ESSM Facility

Construction material Aluminum 6061/6063

PHYSICAL CHARACTERISTICS

Operating/Shipping

7 ft, 2 in.
7 ft, 8 in.
7 ft, 2 in.
430 cu ft
2810 lb

REFERENCES

None



19' Inflatable Boat WB0730

BOAT, 19' INFLATABLE, MK V HD, W/TWIN 50-HP MOTORS

ESSM NUMBER WB0730

DESCRIPTION

The 19' Inflatable Boat WB0730 is a lightweight, multipurpose craft. The boat is used primarily for transporting personnel, equipment, and supplies. The hull is a U-shaped chamber with conical airtight bulkheads that ensure complete safety and balance of pressure in the different compartments. The keel, when inflated, causes the bottom to assume a V-shape configuration.

The boat is equipped with aluminum floorboards, paddles, running lights, boat hook, windshield and console assembly, and all the necessary ancillary gear to operate, maintain, and repair the boat. The boat is also equipped with two 50-hp outboard motors and ancillary equipment for each motor. The boat, motors, and ancillary equipment are stored in a metal shipping container.

SPECIFICATIONS

Manufacturer	Zodiac
Model	MK V HD
Type	5653
Max. persons on board	15
Load capacity	4631 lb
Max. horsepower	115

PHYSICAL CHARACTERISTICS

Operating (boat only)

Length	19 ft, 6 in
Width	8 ft, 2 in.
Height	3 ft, 0 in.
Cube	450 cu ft
Weight	550 lb

REFERENCES

1. Maintenance and Assembly Manual for Zodiac Models Mark IV HD, V HD, and VI HD.



50-hp Outboard Motors MT0938

MOTOR, OUTBOARD, 50-HP, 4-STROKE

ESSM NUMBER MT0938

DESCRIPTION

The 50-hp Outboard Motor MT0938 is a 4-stroke gasoline outboard motor used to power boats that are used for transferring personnel, cargo and equipment, tending boom, and various other duties.

SPECIFICATIONS

Manufacturer Model Max. operating rpm Idle (rpm) Cylinders Bore	Mercury 50ELPT Bigfoot 5500 - 6000 750 ±25 4 2.48 in.
Stroke	2.953 in.
Displacement Gear ratio:	57 cu in.
3 1/4" diameter gear case	1.83:1
4 1/4 " diameter gear case	2.3:1
Horsepower	50
Engine oil capacity	3 qts.
Starting	Electric/manual
Battery	12 V dc

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length	1ft, 6 in.
Width	2 ft, 6 in.
Height	5 ft, 0 in.
Cube	19 cu ft
Weight	320 lb

REFERENCES

1. Operation and Maintenance Manual for Mercury 45/50-hp (4-stroke) Outboard Motors.



50-hp Outboard Motors MT0939

MOTOR, OUTBOARD, 50-HP, 2-STROKE

ESSM NUMBER MT0939

DESCRIPTION

The 50-hp Outboard Motor MT0939 is a 2-cycle gasoline outboard motor used to power boats that are used for transferring personnel, cargo and equipment, tending boom, and various other duties.

SPECIFICATIONS

Manufacturer	Outboard Marine Corporation (OMC), Johnson
Model	J50BELCIC
Max. operating rpm	5500
Idle (rpm)	750
Cylinders	2
Bore	3.1875 in.
Stroke	2.820 in.
Displacement	45 cu in.
Horsepower	50
Starting	Electric/manual
Battery	12 V dc

PHYSICAL CHARACTERISTICS

	<u>Operating</u>	Shipping
Length	4 ft, 2 in.	4 ft, 0 in.
Width	1 ft, 2 in.	3 ft, 4 in.
Height	2 ft, 4 in.	2 ft, 9 in.
Cube	12 cu ft	37 cu ft
Weight	202 lb	252 lb

REFERENCES

- 1. Outboard Marine Corporation Service Manual, Models 2 through V6, Part No. 507508 1 through 2.
- 2. Outboard Marine Corporation Special Tool Guide, Part No. 395402.
- 3. Outboard Marine Corporation Parts Catalog for 50-hp Models.



VHF Marine Mobile Radio, Voyager (76-Channel) RA1830

RADIO, VHF, MARINE MOBILE, VOYAGER (76-CHANNEL)

ESSM NUMBER RA1830

DESCRIPTION

The Horizon Voyager GX2200S Marine Mobile Radio RA1830 is a marine VHF/FM transceiver with public address system and intercom features in a moisture-resistant console. The Horizon Voyager requires 13.8 V dc for operation, can develop a switchable RF output power of 1 watt or 25 watts, and operates in the frequency range of 156.050 to 163.275 MHz.

The Horizon Voyager has a capacity of 76 channels: 55 programmed marine transmit/receive channels, 6 weather channels, and 15 transmit/receive expansion channels. The 55 marine channels are switchable for use with USA, international, or Canadian regulations. Should the FCC increase the number of marine channels, the Voyager may be programmed by qualified dealers for 15 new transmit and receive frequencies. The one-touch Channel 16 access allows immediate selection of emergency Channel 16.

SPECIFICATIONS

Manufacturer Standard

Model Horizon Voyager GX2200S

Channels 76 total: 55 marine

6 weather 15 expansion

Input voltage $13.8 \text{ V dc} \pm 20\%$

Frequency range 156.050 to 163.275 MHz Transmitter RF output 25 W high, 1 W low

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length	8 in.
Width	7 in.
Height	2 in.
Cube	1 cu ft
Weight	3 lb

REFERENCES

1. Horizon Voyager GX2200S Owner's Manual.



VHF Marine Mobile Radio RA1831

RADIO, VHF, MARINE MOBILE, ICOM (58-CHANNEL)

ESSM NUMBER RA1831

DESCRIPTION

The Icom VHF Marine Mobile Radio RA1831 is a marine VHF/FM transceiver with intercom features and a public address system in a moisture-resistant console. The radio requires a supply voltage of 13.8-volt dc negative ground and operates in the frequency range of 156-163 MHz. The radio has 58 programmed marine transmit/receiver channels and 10 weather channels.

The radio has the following advanced features: voltage source deviation indicator; 25W of high transmission output power; dual watch and a variety of scans; 20 user-programmed memory channels; momentary high power on Channels 13 and 67; single-tone, double high-tone, and double low-tone beeps; high sensitivity and strong intermodulation rejection; and a built-in lithium battery to retain the information programmed into the memory channels. The life of the lithium battery is approximately 5 years. The Icom radio models IC-M56, IC-M58, and IC-M402S are currently in use in the ESSM System with appropriate instruction manuals. All models are functionally equivalent.

SPECIFICATIONS

Manufacturer Icom
Model(s) IC-M56
IC-M58

IC-M402S

Usable temperature range -20° to +60°C (-4 to +140°F) Power supply voltage 13.8 V dc negative ground

Channels:

Transmit 58 Weather 10

Receiver:

Frequency range 156 to 163 MHz

Sensitivity .3µV for 12 dB SINAD Audio output power 4W with a 4-ohm load

Intermediate frequency 1st: 21.8 MHz; 2nd: 455 kHz

Transmitter:

Frequency range 156 to 157.5 MHz Output power 25 W high; 1 W low

RADIO, VHF, MARINE MOBILE, ICOM (58-CHANNEL) (CONTD)

ESSM NUMBER RA1831

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length8 in.Width7 in.Height2 in.Cube1 cu ftWeight3 lb

REFERENCES

- 1. Instruction Manual, Icom IC-M56.
- 2. Instruction Manual, Icom IC-M58.
- 3. Instruction Manual, Icom IC-M402S.

Downloaded from http://www.everyspec.com



19' Inflatable Boat Tool Box TL0055

TOOL BOX, 19' INFLATABLE BOAT

ESSM NUMBER TL0055

DESCRIPTION

The 19' Inflatable Boat Tool Box TL0055 is a tool set that contains spark plugs, fuses, 3/8" drive ratchet set, screwdrivers, pliers, oil filters, timing belts, adjustable wrenches, and a boat patching kit. It contains the necessary tools to set up, operate, and maintain the 19' Inflatable Boat

SPECIFICATIONS

Manufacturer ESSM Facility

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length 1ft, 4 in. Width 9 in. Height 13 in. Cube 1 cu ft Weight 18 lb

REFERENCES

None



23' Inflatable Boat Shipping Container (10') VA2264

VAN, SHIPPING CONTAINER (10'), 23' INFLATABLE BOAT

ESSM NUMBER VA2264

DESCRIPTION

The 23' Inflatable Boat Shipping Container (10') VA2264 is used to store and ship the 23' Inflatable Boat WB0730. The van contains a 23-foot inflatable boat, two 70-hp outboard motors, fuel tanks, spare parts, tool box, anchor, and necessary ancillary equipment to operate and maintain the boat while in the field.

SPECIFICATIONS

Manufacturer ESSM Facility

Model 9202M

Drawing number DCSF-SER301 (PCCI)

Construction material Steel

Bottom side rail ASTM AS69/A570 Steel Geometry Cold formed channel sections

Thickness 7 gauge
Maximum gross weight 14,800 lb
Maximum payload 12,100 lb
Tare weight 2700 lb

PHYSICAL CHARACTERISTICS

Operating/Shipping

 Length
 10 ft, 0 in.

 Width
 8 ft, 0 in.

 Height
 8 ft, 0 in.

 Cube
 640 cu ft

 Weight
 6180 lb

REFERENCES

None



23' Inflatable Boat Shipping Container (8') VA2265

VAN, SHIPPING CONTAINER (8'), 23' INFLATABLE BOAT

ESSM NUMBER VA2265

DESCRIPTION

The 23' Inflatable Boat Shipping Container (8') VA2265 is used to store and ship the 23' Inflatable Boat WB0730. The van contains a 23-foot inflatable boat, two 70-hp outboard motors, fuel tanks, spare parts, tool box, anchor, and necessary ancillary equipment to operate and maintain the boat while in the field.

SPECIFICATIONS

Manufacturer ESSM Facility

Construction material Aluminum 6061/6063

PHYSICAL CHARACTERISTICS

Operating/Shipping

 Length
 8 ft, 2 in.

 Width
 7 ft, 8 in.

 Height
 7 ft, 5 in.

 Cube
 485 cu ft

 Weight
 3095 lb

REFERENCES

None



23' Inflatable Boat WB0732

BOAT, 23' INFLATABLE, MK VI HD, W/TWIN 70-HP MOTORS

ESSM NUMBER WB0732

DESCRIPTION

The 23' Inflatable Boat WB0732 is a lightweight, multipurpose craft. The boat is used primarily for transporting personnel, equipment, and supplies. The hull is a U-shaped chamber with conical airtight bulkheads that ensure complete safety and balance of pressure in the different compartments. The keel, when inflated, causes the bottom of the boat to assume a V-shaped configuration.

The boat is equipped with aluminum floorboards, paddles, running lights, a boat hook, a windshield and console assembly, and all necessary gear to operate, maintain, and repair the boat. The boat is also equipped with two 70-hp outboard motors and ancillary equipment for each. The boat, motors, and all ancillary equipment are stored in a metal shipping container.

SPECIFICATIONS

Manufacturer Zodiac Model MK VI HD

Type 6662

Capacities:

Persons 20 Useful payload 6615 lb Max. horsepower 175

PHYSICAL CHARACTERISTICS

Operating (boat only)

Length	23 ft, 0 in
Width	9 ft, 5 in.
Height	3 ft, 5 in.
Cube	740 cu ft
Weight	705 lb

REFERENCES

1. Maintenance and Assembly Manual for Zodiac Models, MARK IV HD, V HD, VI HD.



70-hp Outboard Motors MT0045

MOTOR, OUTBOARD, 70-HP, 4-STROKE

ESSM NUMBER MT0045

DESCRIPTION

The 70-hp Outboard Motor MT0045 is a 4-stroke gasoline outboard motor used to power boats that are used for transferring personnel, cargo and equipment, tending boom, and other various duties.

SPECIFICATIONS

Manufacturer Outboard Marine Corporation (OMC), Evinrude

Model E70 PL4SS 5200 - 5800 Max. operating rpm Idle (rpm) 750 ± 25 Cylinders 4 Bore 2.91 in.

Stroke 2.97 in. Displacement 79.2 cu in. Gear ratio 2.42:1Horsepower 70

Starting Electric/manual

Battery 12 V dc

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length 2 ft, 6 in. Width 1 ft, 5 in. Height 5 ft, 0 in. Cube 18 cu ft Weight 340 lb

REFERENCES

1. Operation and Maintenance Manual for the Evinrude 70-hp (4-stroke) Outboard Motors.



70-hp Outboard Motors MT0942

MOTOR, OUTBOARD, 70-HP

ESSM NUMBER MT0942

DESCRIPTION

The 70-hp Outboard Motor MT0942 is a 2-cycle gasoline outboard motor used to power boats that are used for transferring personnel, cargo and equipment, for tending boom, and other various duties.

SPECIFICATIONS

Manufacturer Outboard Marine Corporation (OMC), Johnson

Model J70ELCRD or J70ELEOR

Max. operating rpm 5500 Idle (rpm) 750 Cylinders 3 Bore 3.000

Bore 3.000 in.
Stroke 2.3437 in.
Displacement 49.7 cu in.

Horsepower 70

Starting Electric/manual

Battery 12 V dc

PHYSICAL CHARACTERISTICS

	<u>Operating</u>	Shipping
Length	4 ft, 7 in.	4 ft, 0 in.
Width	1 ft, 2 in.	3 ft, 4 in.
Height	2 ft, 4 in.	2 ft, 9 in.
Cube	12.5 cu ft	37 cu ft
Weight	250 lb	300 lb

REFERENCES

- 1. Outboard Marine Corporation Service Manual, Models 2 through V6, Part No. 507508, 1 through 12.
- 2. Outboard Marine Corporation Special Tool Guide, Part No. 395402.
- 3. Outboard Marine Corporation Parts Catalog for 70-hp Models.



VHF Marine Mobile Radio, Voyager (76-Channel) RA1830

RADIO, VHF, MARINE MOBILE, VOYAGER (76-CHANNEL)

ESSM NUMBER RA1830

DESCRIPTION

The Horizon Voyager GX2200S Marine Mobile Radio RA1830 is a marine VHF/FM transceiver with public address system and intercom features in a moisture-resistant console. The Horizon Voyager requires 13.8 V dc for operation, can develop a switchable RF output power of 1 watt or 25 watts, and operates in the frequency range of 156.050 to 163.275 MHz.

The Horizon Voyager has a capacity of 76 channels: 55 programmed marine transmit/receive channels, 6 weather channels, and 15 transmit/receive expansion channels. The 55 marine channels are switchable for use with USA, international, or Canadian regulations. Should the FCC increase the number of marine channels, the Voyager may be programmed by qualified dealers for 15 new transmit and receive frequencies. The one-touch Channel 16 access allows immediate selection of emergency Channel 16.

SPECIFICATIONS

Manufacturer Standard

Model Horizon Voyager GX2200S

Channels 76 total: 55 marine

6 weather 15 expansion

Input voltage $13.8 \text{ V dc} \pm 20\%$

Frequency range 156.050 to 163.275 MHz Transmitter RF output 25 W high, 1 W low

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length	8 in.
Width	7 in.
Height	2 in.
Cube	1 cu ft
Weight	3 lb

REFERENCES

1. Horizon Voyager GX2200S Owner's Manual.

+



VHF Marine Mobile Radio RA1831

RADIO, VHF, MARINE MOBILE, ICOM (58-CHANNEL)

ESSM NUMBER RA1831

DESCRIPTION

The Icom VHF Marine Mobile Radio RA1831 is a marine VHF/FM transceiver with intercom features and a public address system in a moisture-resistant console. The radio requires a supply voltage of 13.8 V dc negative ground and operates in the frequency range of 156-163 MHz. The radio has 58 programmed marine transmit/receiver channels and 10 weather channels.

The Icom radio model IC-M56 is currently being replaced with the IC-M58 model. The system may contain either model and instruction manual. Both models have similar features, except that the IC-M58 model contains an emergency Channel 9.

SPECIFICATIONS

Manufacturer Icom

Model IC-M56/IC-M58

Usable temperature range -20° to +60°C (-4 to +140°F) Power supply voltage 13.8 V dc negative ground

Channels:

Transmit/receive 58
Weather 10

Receiver:

Frequency range 156 to 163 MHz

Sensitivity .3æV for 12 dB SINAD Audio output power 4 W with a 4-ohm load Intermediate frequency 1st: 21.8 MHz, 2nd: 455 kHz

Transmitter:

Frequency range 156 to 157.5 MHz Output power 25 W high, 1 W low

RADIO, VHF, MARINE MOBILE ICOM (58-CHANNEL)

ESSM NUMBER RA1831

PHYSICAL CHARACTERISTICS

\sim	. •	/01	•	•
Ope	erating	2/SI	າາກ	ping

Length8 in.Width7 in.Height2 in.Cube1 cu ftWeight3 lb

REFERENCES

1. Instruction Manual, Icom IC-M56/Icom IC-M58.

Downloaded from http://www.everyspec.com



23' Inflatable Boat Tool Box TL0060

TOOL BOX, 23' INFLATABLE BOAT

ESSM NUMBER TL0060

DESCRIPTION

The 23' Inflatable Boat Tool Box TL0060 is a tool set that contains spark plugs, fuses, 3/8" drive ratchet set, screwdrivers, pliers, oil filters, timing belts, adjustable wrenches, and a boat patching kit. It contains the necessary tools to set up, operate, and maintain the 23' Inflatable Boat.

SPECIFICATIONS

Manufacturer ESSM Facility

PHYSICAL CHARACTERISTICS

Operating/Shipping

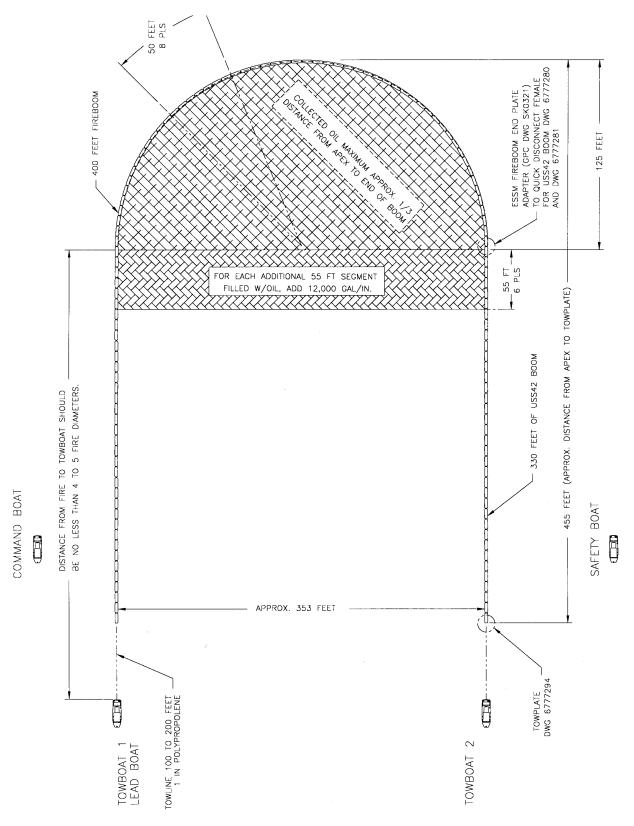
Length 1ft, 4 in. Width 9 in. Height 13 in. Cube 1 cu ft Weight 18 lb

REFERENCES

None

Downloaded from http://www.everyspec.com

FIRE BOOM SYSTEM P20600 SYSTEM INACTIVE



Fire Boom System Configuration

FIRE BOOM SYSTEM

SYSTEM NUMBER P20600

DESCRIPTION

The Fire Boom System P20600 consists of sections of fire boom, containment boom burn blankets, a rigging set, ancillary equipment, fire pumps with hoses and nozzles, and a set of igniters. The fire boom system is used in conjunction with the containment boom to confine and burn large quantities of recovered oil thereby reducing the storage requirements for the recovered oil. The fire boom system must be deployed early with appropriate operation in spill responses. This system allows oil to be confined and burned in place versus recovered and stored. This can only occur early in a response as weathered and emulsed oil more than seven (7) days old will not burn.

<u>Item</u>	ESSM Number	<u>Qty</u>
1. Air compressor, 19 cfm @ 125 psi, diesel	AC0505	1
2. Boom, fire, 42" X 50' sections	BM0730	8
3. Boom deployment tray for BM0730	BM0731	4
4. Boom, oil containment, model USS-42, 42" x 55'	BM0738	12
5. Fire monitor, Apollo, portable w/folding legs	FM0010	3
6. Ignitor, flare type	IG0010	5
7. Pump, fire, 2 1/2", diesel	PU2130	3
8. Ancillary Safety Kit for PU2130	PU2131	1



19-cfm Diesel Air Compressor AC0505

AIR COMPRESSOR, 19 CFM @ 125 PSI, DIESEL

ESSM NUMBER AC0505

DESCRIPTION

The 19 cfm @ 125 psig, Diesel-driven, Air Compressor AC0505 is a single-stage, four-cylinder air compressor capable of delivering 19 cfm @ 125 psig. The air compressor is used for boom inflation, operation of pneumatic-powered hand tools, and other needs that require low pressure, low volume air.

SPECIFICATIONS

<u>Engine</u>		Air Compressor	
Manufacturer	Yanmar	Manufacturer	Emglo Prod.
Model	L60	Model	CGU
Cylinders	1	Capacity	19 cfm
Fuel*	Diesel	Rated operating pressure	125 psig
Bore	2.95 in.	Cylinders	4
Stroke	2.44 in.	Stages	1
Displacement	16.7 cu in.	RPM	710
RPM (continuous)	3600	Storage tank	30 gallon
Compression ratio	20:1	Operating pressure range	100/120 psig
Starting	Recoil/Electric		
Battery	12 V dc		
Fuel consumption	0.5 gph		

^{*} Fuel is supplied from a 0.92-gallon integral fuel tank.

PHYSICAL CHARACTERISTICS

	Operating/Shipping
Length	3 ft, 2 in.
Width	2 ft, 1 in.
Height	3 ft, 0 in.
Cube	20 cu ft
Weight	530 lb

REFERENCES

- 1. Operation Manual for Yanmar (Air-cooled) Diesel Engine L-A series
- 2. Yanmar Diesel Engine Parts Catalog Pub. No. 000Y00R3981
- 3. Parts list G592 for Model G & GC Air Compressors



42" Fire Boom BM0730

BOOM, FIRE, 42" X 50' SECTIONS

ESSM NUMBER BM0730

DESCRIPTION

The 42" x 50' Sections of Fire Boom BM0730 are used in conjunction with standard oil containment boom sections to make a long section of boom to collect and contain the spilled oil. The boom, which is attached to two towboats by lines, is pulled by the towboats to form a U-shape. The open end of the U is maneuvered through the oil slick to collect oil within the "U". The oil is then herded to the apex of the U-shape. The boom is towed away from the main oil slick and ignited. Once ignited the collected oil is allowed to burn until it burns itself out (burns up its fuel). The recommended configuration of fire boom and oil containment boom is 400-feet of fireboom with 330-feet of oil containment boom attached to each end.

During the burning, the boom is towed to maintain a slow advance through the water to ensure that the oil is concentrated at the boom apex to maintain maximum thickness. Once the burn is complete, the boom may be towed with, against, or across currents as long as the maximum speed over the water does not exceed 0.75 to 1 knot tow speed. When burning the towboats must maintain a heading within 45° of the true wind direction to keep any plume from overcoming boat personnel.

SPECIFICATIONS

Manufacturer	3M Corporation

Float diameter 18 in.
Freeboard 14 1/2 in.
Draft 27 1/2 in.
Skirt length 24 in.
Reserve buoyancy (RB) 72.6 lb/ft
RB to weight ratio 4.5

Float length 72 in. (6 ft)
Segment length 7.2 ft
Number of segment per section 7
Section length 50 ft

Weight 16 lb/per foot

End connector (3M fireboom to USS-42

boom adaptor) 3M standard clasp to SUPSALV adaptor SK0321

Connector strength (lb ft) 13700 Skirt mat PVC

Floatation CS-S ceramic log

Vertical CG 14.5 in. Waterline beam 14.7 in.

Ballast 3/8-in. galvanized chain at 1.9 lb/ft

Ballast chain strength 10,600 lb

BOOM, FIRE, 42" X 50' SECTIONS

ESSM NUMBER BM0730

SPECIFICATIONS (Cont'd)

Fabric strength 5200 lb
Tear strength 150 lb
Storage volume 3.2 cu ft

Operating sea state 2 limits

Towing in straight line 6 knots "U" configuration 1 knot

PHYSICAL CHARACTERISTICS

Operating/Shipping

 Length
 50 ft, 0 in.

 Width
 1 ft, 6 in.

 Height
 3 ft, 6 in.

 Cube
 263 cu ft

 Weight
 800 lb

REFERENCES

1. U.S.N. SUPSALV ESSM System In-situ Burn Operations Manual

Downloaded from http://www.everyspec.com



Boom Trays BM0731 with Boom

BOOM DEPLOYMENT TRAY FOR BM0730

ESSM NUMBER BM0731

DESCRIPTION

The Boom Deployment Tray BM0731 is designed to store boom in the warehouse, transport boom overland and via military cargo aircraft, deploy boom, and retrieve the fireboom. The boom trays are designed to accommodate 2 sections of boom faked transversely back and forth across the width of the tray.

SPECIFICATIONS

None

PHYSICAL CHARACTERISTICS

Operating/Shipping

 Length
 23 ft, 0 in.

 Width
 8 ft, 0 in.

 Height
 2 ft, 0 in.

 Cube
 368 cu ft

Weight 2800 lb w/boom

REFERENCES

None



USS-42 Oil Containment Boom BM0738

BOOM, OIL CONTAINMENT, MODEL USS-42, 42" X 55'

ESSM NUMBER BM0738

DESCRIPTION

The Oil Containment Boom BM0738 is an inflatable, rubberized, nitrile/vinyl rubber impregnated high strength nylon cloth that resists abrasions, gouging, oil, and saltwater. The standard 55 1/2-foot section has five, 10-foot long, 14-inch diameter inflation chambers with an inflation/deflation valve. There is a 10" piece of rubberized fabric that separates adjoining chambers and provides flexibility for the boom. Each inflation section is completely vulcanized with no stitched seams that can pull apart. The boom has a skirt that extends 24-in. below the inflation chambers for containing the oil. A 1/2-in.galvanized chain runs through a reinforced pocket on the bottom of the skirt. This chain acts as a ballast/tension member to keep the skirt in a vertical position. There are six metal lifting handles vulcanized to each inflation section for deployment and recovery of the boom. In addition, there are two large lifting eyes vulcanized to the end chamber sections for lifting the boom sections into and out of the water. Highly visible yellow warning stripes are located at the first and third handle positions of each inflation chamber for improved visibility of the boom when it is waterborne. The boom is high in buoyancy and will float higher in the water than standard boom.

SPECIFICATIONS

Boom

Manufacturer Engineering Fabrics Corporation

Inflation pressure 2-3 psig Test pressure 6 psig Draft 28 in. 15 in. Freeboard Overall height inflated 42 in. Overall height deflated 52 1/2 in. Section length 55 ft Weight per foot 6.7 lb

Flotation Chamber

Diameter 14 in.
Length 10 ft
Air valves per chamber 2
Chamber buoyancy 950 lb
Handle spacing 4 ft

Materials:

Coated Frabic Nitrile/vinyl rubber impregnated high strength nylon cloth

Color Black with high visibility orange strips

Ballast 1/2-in. galvanized steel chain, 45,000 lb tensile

BOOM, OIL CONTAINMENT, MODEL USS-42, 42" X 55'

ESSM NUMBER BM0738

SPECIFICATIONS (Cont'd)

End connections Anodized 6061-T6 aluminum alloy extrusion

Connector plate Stainless steel
Clevis, Shackles, & oblong clevis pins Galvanized steel

Inflation/deflation valves Plastic with stainless steel hardware

Tow bar Stainless steel

PHYSICAL CHARACTERISTICS

Shipping		<u>Operating</u>	
Length Width Height Cube Weight	3 ft, 6 in. 3 ft, 4 in. 2 ft, 6 in. 30 cu ft 875 lb	Length Diameter Cube Weight	55 ft, 0 in. 3 ft, 6 in. 674 cu ft 875 lb

REFERENCES

1. Operations and Maintenance Instructions with Illustrated Parts Breakdown.

Downloaded from http://www.everyspec.com



Portable Fire Monitor w/Folding legs FM0010

FIRE MONITOR, APOLLO, PORTABLE W/ FOLDING LEGS

ESSM NUMBER FM0010

DESCRIPTION

The Portable Fire Monitor FM0010 is used in conjunction with the fire pump and the 95 gpm, 1 1/2-in. NPSH nozzle for the protection of the crews aboard the tow, command, and safety vessel during an insitu burn. If a tow vessel becomes disabled, it must drop its towline immediately and turn its fire monitor on to a fog or straight stream, as required to protect itself. All personnel should have full protective clothing on.

Operating/Shipping

SPECIFICATIONS

Manufacturer	Akron Brass
Model	Apollo Plus
Style	3421
Inlet	2 1/2 in. Y-gate
Discharge	2 1/2 in.
Maximum discharge pressure with straight tip:	
1 3/8"	100 psig
1 1/2"	100 psig
1 3/4"	70 psig
2"	50 psig
Maximum flow with fog nozzle	800 gpm

PHYSICAL CHARACTERISTICS

Length	2 ft, 0 in.
Width	2 ft, 0 in.
Height	1 ft, 6 in.
Cube	6 cu ft
Weight	

REFERENCES

1. USN SUPSALV ESSM System In-situ Burn Operations Manual



Flare Type Ignitor IG0010

IGNITOR, FLARE TYPE

ESSM NUMBER IG0010

DESCRIPTION

The Flare Type Ignitor IG0010 consists of a flare-type pyrotechnic device. The pyrotechnic device is made up of a mixture of metals, chemicals, and organic binders that ignite by a small amount of energetic compound. An electrical filament connected to the internal of the flare ignites this energetic compound, or "squib." The squib, in turn, lights the metal/binder mixture, which (when lit) produces a very hot flame (in excess of 2400°F) that sparks the burn at the oil/water interface. The cylinder-type Ignitor is a free floating version that needs only to have its safety jumper engaged and its power switch turned on to be deployed. When the switch is turned on, it activates a 2.5 to 5.0 minute timer, which must time out before the squib is energized and ignited. The intense heat at the oil/water interface causes the oil to heat up and flash (emit volatile vapors). The vapors ignite, creating more heat, which in turn radiates back to the surface oil and propagates the fire. The igniter flare is always used in conjunction with sorbent 3M pads, which are wrapped and taped around the flare prior to deployment in order to trap oil and enhance oil ignitibility.

SPECIFICATIONS

None

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length	1 ft, 4 in.
Diameter	0 ft, 4 in.
Cube	1 cu ft
Weight	4 lb

REFERENCES

1. USN SUPSALV ESSM System In-situ Burn Operations Manual



2 1/2" Fire pump PU2130

PUMP, FIRE, 2-1/2", DIESEL

ESSM NUMBER PU2130

DESCRIPTION

The 2 1/2" Inch Diesel Fire Pump PU2130 is a commercial, diesel driven, portable pump designed for firefighting, dewatering, and other utility type functions. The pump unit consists of the engine, a centrifugal pump, an exhaust primer, a discharge valve, a recoil starter, a 1.45-gallon fuel tank, and a compound pressure gauge. The pump is designed to provide 100 gpm @ 83 psig at a lift of 20 feet. The pump will deliver 71 gpm @ 62 psig at a high lift condition of 44 feet.

Dumn

SPECIFICATIONS

Engina

	<u>Pump</u>	
Yanmar Engines	Manufacturer	Darley & Co.
L100AE	Model	2BE
Air-cooled, 4-cycle	Type	Centrifugal
1	Suction port	3 in.
2.756 in.	Discharge port	2 in.
3.386 in.	Rated output:	
24.78 cu in.	20 foot head	100 gpm/83
19.3:1	44 foot head	71 gpm/62
10 hp		
Recoil pull-starting		
Diesel		
.52 gph		
	L100AE Air-cooled, 4-cycle 1 2.756 in. 3.386 in. 24.78 cu in. 19.3:1 10 hp Recoil pull-starting Diesel	Yanmar Engines L100AE Air-cooled, 4-cycle 1 2.756 in. 3.386 in. 24.78 cu in. 19.3:1 10 hp Recoil pull-starting Diesel Manufacturer Model Type Suction port Discharge port Rated output: 20 foot head 44 foot head

^{*} Fuel source is an integral 1.45-gallon fuel tank.

PHYSICAL CHARACTERISTICS

	Operating/Shipping
Length	2 ft, 0 in.
Width	2 ft, 3 in.
Height	2 ft, 0 in.
Cube	9 cu ft
Weight	166 lb

PUMP, FIRE, 2 1/2", DIESEL

ESSM NUMBER PU2130

REFERENCES

1. Champion Fire Pump Operators Manual for Model 2BE 10YDN, S6226-NM-MMC-010/15852 (Shipped with unit)

Downloaded from http://www.everyspec.com



Ancillary Safety Kit PU2131

ANCILLARY SAFETY KIT FOR PU2130

ESSM NUMBER PU2131

DESCRIPTION

The Ancillary Safety Kit PU2131 for pump PU2130 is a three-basket set consisting of the necessary hoses, monitors, protective wear, fire pump, and fittings to support the PU2130 fire pump in the field. See Specifications section for listing of ancillary items.

SPECIFICATIONS

<u>Item</u>	Qty
Basket #1, 62" x 36 " x 41"	1
Hose, fire, 1 1/2 " x 20'	2
Hose, fire, 2 1/2" x 6'	2
Hose, suction, 3" w/foot valve	2 2
Inventory, laminated	1
Manual, fire pump	2
Monitor, with piping	2
Nozzle, 95 gpm, 1 1/2" NPSH	2
Pump, fire (2BE 10YDN)	2 2 2 2 4
Strap, cargo, tie-down	4
Swivel, 2 1/2" female by female	3
Basket #2, 62" x 36" x 41"	1
Carrier, Jerry Can	2
Hose, fire, 1 1/2" x 20'	1
Hose, fire, 2 1/2" x 6'	1
Hose, suction, 3" w/foot valve	1
Igniter	5
Jerry can, 5 gallon	2
Strap, cargo, tie-down	5
Basket #3, 62" x 36" x 41"	1
Face piece, 6000 series, 3M, small 6100	2
Filter, high efficiency, model 3M	20
Glove, oil/fire retardant	20
Inventory, laminated	1
Nomex, head hood sock	20
Shield, face	17
Shields, mesh	17
Fire retardant suit	20
Case, Thermodyne	1
Flotation vest, fire retardant	17

ANCILLARY SAFETY KIT FOR PU2130

ESSM NUMBER PU2131

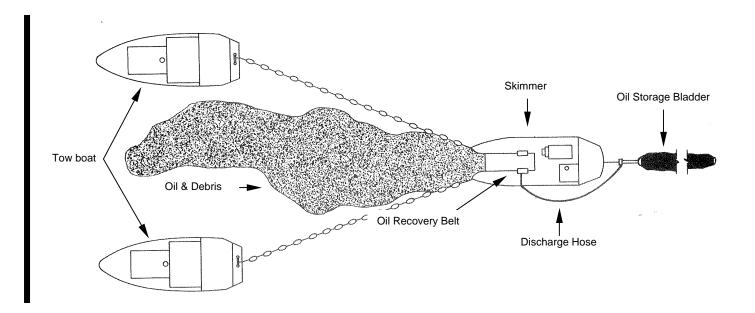
PHYSICAL CHARACTERISTICS

	Basket #1	Basket #2	Basket #3
Length	5 ft, 1 in.	5 ft, 1 in.	5 ft, 1 in.
Width	8 ft, 0 in.	8 ft, 0 in.	8 ft, 0 in.
Height	8 ft, 0 in.	8 ft, 0 in.	8 ft, 0 in.
Cube	53 cu ft	53 cu ft	53 cu ft
Weight	1094 lb	744 lb	556 lb

REFERENCES

None

VESSEL SKIMMER SYSTEM P16400





Vessel Skimmer System P16400 (Towboats not part of this system.)

VESSEL SKIMMER SYSTEM

SYSTEM NUMBER P16400

SYSTEM DESCRIPTION

The Vessel Skimmer System P16400 is designed to pick up oil spills from the water surface. To accomplish this mission, the skimmer is outfitted with the machinery necessary to draw and separate spilled oil from the water, store the recovered oil, and transfer it to an off-vessel storage facility. The Vessel Skimmer System normally recovers the oil while being towed by two support vessels; however, the skimmer is self-propelled and may be used to conduct oil skimming operations while under its own power. To eliminate transit time required to offload the recovered oil from the skimmer, an oil storage bladder may be towed by the skimmer for transfer of the recovered oil. The oil storage bladder must be ordered separately from the ESSM facility.

SYSTEM COMPONENTS

<u>Item</u>	ESSM Number	<u>Qty</u>
1. Skimmer, Oil, Sorbent Belt, 36' Vessel (Class V)	SK0721	1
Radio, CB, Marine Mobile	RA1709	1
Radio, VHF		1
Marine Mobile, Voyager (76-Channel)	RA1830	
Marine Mobile, Icom (58-Channel)	RA1831 (Altn)	
Roller, Oil Boom	RO0501	1
Belt, Skimmer, Light Oil	SK0722 (not shown)	1
Belt, Bunker, Class V Skimmer	SK0725 (not shown)	1
Belt, Medium Oil, Class V Skimmer	SK0726 (not shown)	1
Tool Box, 36' Skimmer SK0721	TL0025	1
Washer, Pressure, Hydraulic, Kew, Model-4403K0S	WA0700	1
2. Boom, Oil Containment, Model USS-42, 42" x 55'	BM0738	12
3. Pallet, Storage, 84" x 60" x 7", USS-42 and USS-42HB Boom	BM0876	1



Class V 36-Foot Sorbent Belt Oil Skimmer Pilot House



Class V 36-Foot Sorbent Belt Oil Skimmer SK0721

SKIMMER, OIL, SORBENT BELT, 36-FOOT VESSEL (CLASS V)

ESSM NUMBER SK0721

DESCRIPTION

The Class V 36-Foot Sorbent Belt Oil Skimmer SK0721 is a 36-foot aluminum vessel that has a modular pilot house and is fitted with a rotating sorbent belt for oil recovery. The skimmer is self-propelled and can function in stationary, free skimming, or towed V-boom configurations. When used offshore or in open water, the skimmer is towed in a V-boom configuration by two SUPSALV boom handling boats or alternative towboats.

Primary vessel power is provided by a 4-cylinder diesel engine. This engine drives a series of hydraulic pumps that drive various hydraulic motors and cylinders. Most vessel functions are hydraulically activated, including vessel propulsion, steering, bilge pump operation, filter belt operation, and induction and offloading pump operation from the installed modular pilot house. The engine also drives an air compressor to pressurize the filter belt squeeze cylinders.

To eliminate transit time required to offload oil from the skimmer, an oil storage bladder may be towed by the recovery vessel for the transfer of recovered oil.

Engine

SPECIFICATIONS

Hull

<u>Hun</u>		Lingine	
Manufacturer	Marine Construction &	Manufacturer	Detroit Diesel
	Design Co. (MARCO)	Model	5043-7201
Draft (empty)	3 ft, 2 in.	Cylinders	4
Draft (loaded)	4 ft, 0 in.	Bore/stroke	3.875 in./4.5 in.
Displacement (full load)	32,000 lb	Displacement	212 cu in.
Hoisting weight	17,300 lb	Compression ratio	21:1
Construction	Welded aluminum	Rpm (idle)	650
Capacities:		Rpm (max.)	2400
Fuel tank	75 gal.	Horsepower	128 shp @ 2800 rpm
Hydraulic oil reservoir	75 gal.	Starting	Electric
Cooling system	5 gal.	Battery	12 V dc (2 in parallel)
Air tank	830 cu in.	Fuel	Diesel
Sump tank	43 bbl	Fuel tank	75 gallons
		Fuel consumption	6 gph

SKIMMER, OIL, SORBENT BELT, 36-FOOT VESSEL (CLASS V)

ESSM NUMBER SK0721

PHYSICAL CHARACTERISTICS

WARNING: Exceeds legal load size of 102" in width. Requires wide load permit.

	<u>Skimmer</u> Shipping	<u>Pilot House</u> Shipping
	<u>ompping</u>	<u>Simpping</u>
Length	36 ft, 0 in.	5 ft, 9 in.
Width	12 ft, 0 in.	4 ft, 6 in.
Height	8 ft, 10 in.	8 ft, 6 in.
Cube	3816 cu ft	220 cu ft
Weight	20,200 lb	715 lb

REFERENCES

- 1. Boat Information Book for Class V Oil Recovery System, Ch-1, NAVSEA 0994-LP-015-7010.
- 2. Series 53 Operator's Manual, Detroit Diesel-Allison.

Downloaded from http://www.everyspec.com



CB Marine Mobile Radio RA1709

RADIO, CB, MARINE MOBILE

ESSM NUMBER RA1709

DESCRIPTION

The Marine Mobile Citizens Band (CB) Radio RA1709 is designed for marine use. Features include the ability to receive four of the National Oceanic and Atmospheric Administration (NOAA) weather channels. The CB 40 + 4 radio has 44 channels; 40 CB and 4 weather channels. The 40 CB channels can be used for transmitting and receiving; whereas, the 4 weather channels are for receiving only.

Commercial

SPECIFICATIONS

Manufacturer

Manaractarer	Commercial
Frequency range	
Citizens band	26.965 to 27.405 MHz
Weather band (receive only)	161.665 to 162.550 MHz
Channels total:	44
Citizens band	40
Weather band	4
Input voltage	13.8 V dc ±20%
Temperature range	-20°C to $+50^{\circ}\text{C}$

Transmitter (citizens band only)

RF output 4 W maximum

Receiver (CB)

Audio output at 10% distortion 5 W

Audio response 300 Hz to 3 kHz, 3 dB

Channel spacing 10 kHz Hum and noise at 100 kV 45 dB

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length	9 in.
Width	6 in.
Height	2 in.
Weight	3 lb
Cube	1 cu ft

REFERENCES

1. Owner's Manual, CB 40 + 4 H-Watt Citizens Band Marine Transceiver.



76-Channel Voyager Marine Mobile VHF Radio RA1830

RADIO, VHF, MARINE MOBILE, VOYAGER (76-CHANNEL)

ESSM NUMBER RA1830

DESCRIPTION

The 76-Channel Voyager Marine Mobile VHF Radio RA1830 is a marine VHF/FM transceiver with public address system and intercom features in a single moisture-resistant console. The Horizon Voyager requires 13.8 V dc for operation, can develop a switchable RF output power of 1 watt or 25 watts, and operates in the frequency range of 156.050 to 163.275 MHz.

The Horizon Voyager has a capacity of 76 channels: 55 programmed marine transmit/receive channels, 6 weather channels, and 15 transmit/receive expansion channels. The 55 marine channels are switchable for use with USA, international, or Canadian regulations. Should the FCC increase the number of marine channels, the Voyager may be programmed by qualified dealers for 15 new transmit and receive frequencies. The one-touch Channel 16 access allows immediate selection of emergency Channel 16.

SPECIFICATIONS

Manufacturer Standard

Model Horizon Voyager GX2200S

Channels 76 total: 55 marine

6 weather 15 expansion

Input voltage $13.8 \text{ V dc} \pm 20\%$

Frequency range 156.050 to 163.275 MHz Transmitter RF output 25 W high, 1 W low

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length	8 in.
Width	7 in.
Height	2 in.
Cube	1 cu ft
Weight	3 lb

REFERENCES

1. Horizon Voyager GX2200S Owner's Manual.



VHF Marine Mobile Radio RA1831

RADIO, VHF, MARINE MOBILE, ICOM (58-CHANNEL)

ESSM NUMBER RA1831

DESCRIPTION

The Icom VHF Marine Mobile Radio RA1831 is a marine VHF/FM transceiver with intercom features and a public address system in a moisture-resistant console. The radio requires a supply voltage of 13.8-volt dc negative ground and operates in the frequency range of 156-163 MHz. The radio has 58 programmed marine transmit/receiver channels and 10 weather channels.

The radio has the following advanced features: voltage source deviation indicator; 25W of high transmission output power; dual watch and a variety of scans; 20 user-programmed memory channels; momentary high power on Channels 13 and 67; single-tone, double high-tone, and double low-tone beeps; high sensitivity and strong intermodulation rejection; and a built-in lithium battery to retain the information programmed into the memory channels. The life of the lithium battery is approximately 5 years. The Icom radio models IC-M56, IC-M58, and IC- M402S are currently in use in the ESSM System with their appropriate instruction manuals. All models are functionally equivalent.

SPECIFICATIONS

Manufacturer Icom Model IC-M56 IC-M58

IC-M38

Usable temperature range -20° to +60°C (-4 to +140°F) Power supply voltage 13.8 V dc negative ground

Channels:

Transmit 58
Weather 10

Receiver:

Frequency range 156 to 163 MHz Audio output power 4W with a 4-ohm load

Intermediate frequency 1st: 21.8 MHz; 2nd: 455 kHz

Transmitter:

Frequency range 156 to 157.5 MHz
Output power 25 W high, 1 W low

RADIO, VHF, MARINE MOBILE, ICOM (58-CHANNEL) (CONTD)

ESSM NUMBER RA1831

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length8 in.Width7 in.Height2 in.Cube1 cu ftWeight3 lb

REFERENCES

- 1. Instruction Manual, Icom IC-M56.
- 2. Instruction Manual, Icom IC-M58.
- 3. Instruction Manual, Icom IC-M402S.

Downloaded from http://www.everyspec.com



Oil Boom Roller RO0501

ROLLER, OIL BOOM

ESSM NUMBER RO0501

DESCRIPTION

The Oil Boom Roller RO0501 is designed to prevent damage to the oil containment boom during deployment or recovery. It can be placed at the edge of a pier or dock and the boom deployed over it. The boom roller has a manual brake assembly that is used to control the rate of feed over the roller as the boom is deployed.

SPECIFICATIONS

Manufacturer ESSM Facility

PHYSICAL CHARACTERISTICS

\sim	. •	/01 •	•
()n	orotin.	$\alpha/\Sigma h_1$	nnına
\ /I /	eratin	2/13111	צוווווו

Length	6 ft, 3 in.
Width	3 ft, 4 in.
Height	3 ft, 11 in
Cube	82 cu ft
Weight	464 lb

REFERENCES

1. Boom Roller Assembly and Details, NAVSEA Dwg. # 6579538.



36' Skimmer SK0721 Tool Box TL0025

TOOL BOX, 36' SKIMMER SK0721

ESSM NUMBER TL0025

DESCRIPTION

The 36' Skimmer SK0721 Tool Box TL0025 is a basic mechanic's tool set that contains 1/2-inch and 3/8-inch-drive sockets and accessories, combination, open end and adjustable wrenches, pliers, hammers and other miscellaneous tools. It contains the necessary tools to set up and perform basic repairs on the 36' Skimmer SK0721

SPECIFICATIONS

Manufacturer ESSM Facility

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length 1 ft, 10 in.
Width 9 in.
Height 10 in.
Cube 2 cu ft
Weight 62 lb

REFERENCES

None



Hydraulic Pressure Washer WA0700

WASHER, PRESSURE, HYDRAULIC MODEL-4403K0

ESSM NUMBER WA0700

DESCRIPTION

The Hydraulic Pressure Washer WA0700 is a high pressure, cold water cleaner that is used to clean oil and dirt from equipment by spraying high pressure water on the equipment. The pressure washer can use either fresh or salt water as a cleaning medium.

SPECIFICATIONS

Manufacturer	ALTO/KEW
Model	4403K0
Max. pump pressure	2610 psig

Water volume:

Maximum 20.5 gal.
Minimum 5.42 gal.
Max. inlet water temp. 150°F
Self-priming max. lift 16 ft

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length 2 ft, 2 in.
Width 1 ft, 1 in.
Height 1 ft, 10 in.
Cube 5 cu ft
Weight 84 lb

REFERENCES

1. Owner's Manual for Kew Hydraulic Pressure Washer, Model 4403K0.



Oil Containment Boom, Model USS-42 BM0738

BOOM, OIL CONTAINMENT, MODEL USS-42, 42" X 55'

ESSM NUMBER BM0738

DESCRIPTION

The Oil Containment Boom, Model USS-42 BM0738 is constructed of nitrile/vinyl rubber-impregnated, high strength nylon cloth that resists abrasions, gouging, oil, and salt water. The standard 55-ft section has five, 10-ft long, 14-inch diameter inflation chambers with inflation/deflation valves. There is a 10-inch piece of rubberized fabric between adjoining chambers that provides flexibility for the boom. Each inflation section is completely vulcanized, with no stitched seams that can pull apart.

The boom has a skirt that extends 24 inches below the inflation chambers for containing the oil. A 1/2-inch galvanized chain runs through a reinforced pocket on the bottom of the skirt. This chain acts as a ballast/tension member to keep the skirt in a vertical position. There are six metal lifting handles vulcanized to each inflation section for deployment and recovery of the boom. In addition, there are two large lifting eyes vulcanized to the end chamber sections for lifting the boom sections into and out of the water. Highly visible orange strips are located at the first and third handle positions of each inflation chamber for improved visibility of the boom when it is waterborne.

SPECIFICATIONS

Materials

Manufacturer	Engineered Fabrics
Model	USS-42
Inflation pressure	2 - 3 psig
Test pressure	6 psig
Draft	22 in.
Freeboard	16 in.
Overall height inflated	42 in.
Overall height deflated	52 1/2 in.
Section length	55 ft
Weight per foot	6.7 lb
Flotation chamber	
Diameter	14 in.
Length	10 ft
Air valves per chamber	2
Chamber buoyancy	950 lb
Handle spacing	4 ft

Coated fabric Nitrile/vinyl rubber-impregnated high strength nylon cloth

Color Black with high visibility orange strips

Ballast 1/2-in. galvanized steel chain, 45,000-lb tensile strength

BOOM, OIL CONTAINMENT, MODEL USS-42, 42" X 55'

ESSM NUMBER BM0738

SPECIFICATIONS (Cont'd)

End connections Anodized 6061-T6 aluminum alloy extrusion

Connector plate Stainless steel
Clevis, shackles, & oblong clevis pins Galvanized steel

Inflation/deflation valves Plastic with stainless steel hardware

Tow bar Stainless steel

PHYSICAL CHARACTERISTICS

	Operating*
Length	55 ft, 0 in.
Height (overall)	3 ft, 6 in.
Diameter (bladder inflated)	1 ft, 3 in.
Cube	240 cu ft
Weight	420 lb

^{*}Operating characteristics are for one 55' section of boom.

REFERENCES

- 1. Engineered Fabrics Operations and Maintenance Instructions with Illustrated Parts Breakdown.
- 2. Technical Manual for Oil Containment Boom and Boom Mooring Systems, S9597-AC-MMO-010.

Downloaded from http://www.everyspec.com



USS-42/USS-42HB Boom Storage Pallet BM0876 (Without Boom and Stanchions)



USS-42/USS-42HB Boom Storage Pallet BM0876 (With Eight 65 1/2" Stanchions and Boom)

PALLET, STORAGE, BOOM, USS-42/USS-42HB

ESSM NUMBER BM0876

DESCRIPTION

The 84-inch x 60-inch x 7-inch USS-42/USS-42HB Boom Storage Pallet BM0876 is a storage/shipping container for either the USS-42 or the USS-42HB boom. The pallet has two configurations. One configuration is with stanchions that are 65 1/2 inches in height. This configuration is used in the Oil Containment Boom Vans and is designed to hold 12 sections of USS-42 or USS-42HB. The second configuration is with stanchions that are 31 3/4 inches in height, due to storage restriction in the Sponson Rack SK0712 used in the Modular Skimmer System. This configuration is used with the Modular Skimmer System only and is designed to hold 6 sections of USS-42 or USS-42HB, as applicable. The pallet is constructed of 2 and 2 1/2-inch square tubing with a 3/4-inch x #9 expanded metal deck to support the boom.

SPECIFICATIONS

Manufacturer ESSM Facility
Drawing number 6777293

PHYSICAL CHARACTERISTICS

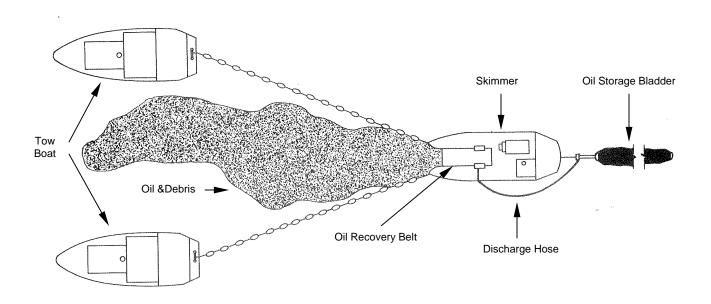
	Shipping (with boom)	Shipping (w/o boom)
Pallet with 65 1/2" stanchions		
Length	7 ft, 0 in.	7 ft, 0 in.
Width	5 ft, 0 in.	5 ft, 0 in.
Height	5 ft, 5 1/2 in.	7 in.
Weight (with USS-42HB)	5626 lb	700 lb
Weight (with USS-42)	5962 lb	700 lb
Cube	191 cu ft	20 cu ft
Pallet with 31 3/4" stanchions		
Length	7 ft, 0 in.	7 ft, 0 in.
Width	5 ft, 0 in.	5 ft, 0 in.
Height	2 ft, 7 3/4 in.	7 in.
Weight (with USS-42HB)	3250 lb	636 lb
Weight (USS-42)	3442 lb	636 lb
Cube	93 cu ft	20 cu ft

REFERENCES

1. USS-42 & USS-42HB Equipment Container & Pallets, NAVSEA Dwg. 6777293.

Downloaded from http://www.everyspec.com

RAPID DEPLOYMENT SKIMMER SYSTEM P16100



Operating Configuration



Rapid Deployment Skimmer System (Tow Boats Not Part of This System)

RAPID DEPLOYMENT SKIMMER SYSTEM

SYSTEM NUMBER P16100

SYSTEM DESCRIPTION

The Rapid Deployment Skimmer System P16100 is a modular 36-foot aluminum skimming vessel fitted with a rotating sorbent belt for oil recovery. The system is packaged in three modules: two separate 8' x 36' modules plus a cabin top on a separate pallet. The first large module contains the skimmer body. The second large module contains a separate sponson rack unit. The sponson rack unit contains the skimmer sides, boom, spill recovery bladder, spare parts, tools, rigging, and the ancillary equipment necessary to complete the system. The design of the system permits rapid field assembly with minimal support. The skimmer is self-propelled and can function in a stationary, free-skimming mode, or towed in the normal operational V-boom configuration.

Primary vessel power is supplied by 4-cylinder diesel engine. The diesel engine drives a series of hydraulic pumps, which drive various hydraulic motors and cylinders. Most vessel functions are hydraulically activated and include: vessel propulsion, steering, bilge pump operation, filter belt operation, induction pump operation, and offloading pump operation. The engine also drives an air compressor to pressurize the filter belt squeeze cylinders.

During normal oil recovery operations, the vessel is towed by two towboats. To eliminate the transit time required to offload oil from the skimmer, a spill recovery bladder may be towed.

SYSTEM COMPONENTS

<u>Item</u>	ESSM Number	<u>Qty</u>
1. Skimmer, Oil, Sorbent Belt, Model 36' Vessel (Class V): Radio, CB, Marine Mobile Radio, VHF, Marine Mobile, Voyager (76-Channel) Radio, VHF, Marine Mobile, Icom (58-Channel) Roller, Oil Boom Belt, Skimmer, Light Oil Belt, Bunker, Class V Skimmer Belt, Medium Oil, Class V Skimmer Tool Box, 36' Modified Skimmer SK0711 Washer, Pressure, Hydraulic, Kew, Model-4403K0S	SK0711 RA1709 RA1830 RA1831 (Altn) RO0501 SK0722 (not shown) SK0725 (not shown) SK0726 (not shown) TL0020 WA0700	1 1 1 1 1 1 1 1 1
2. Rack System for SK0711: Air Compressor, 19 scfm @ 125 psi, Diesel Blower, Electric, Portable Boom, Oil Containment, Model USS-42, 42" x 55' Pallet, Storage, 84" x 60" x 7", USS-42 & USS-42HB Boom Buoy, Marker, Dracone Containment Pool, Machinery, 5' x 5' x 12" Motor, Outboard, 15-Hp	SK0712 AC0501 BL0403 BM0738 BM0876 BU0023 CP3000 MT0940	1 1 1 12 2 1 1

RAPID DEPLOYMENT SKIMMER SYSTEM (CONTD) SYSTEM NUMBER P16100

SYSTEM COMPONENTS

<u>Item</u>	ESSM Number	<u>Qty</u>
Repair Kit, Bladder	OB0801	1
Bladder, Spill Recovery, 26K-Gallon, Type E, Rub	ober OB0809	1
Roundsling, Polyester, 16'	SL0012	4
Boat, 15' Inflatable	WB0717	1

Downloaded from http://www.everyspec.com



Pilot House for SK0711



Modified Oil Skimmer SK0711 Without Side Hull

SKIMMER, OIL, SORBENT BELT, MODEL 36' VESSEL (CLASS V)

ESSM NUMBER SK0711

DESCRIPTION

The Oil Skimmer SK0711 is a 36' aluminum vessel fitted with a rotating sorbent belt for oil recovery. The skimmer is self-propelled and can function in stationary, free-skimming, and towed V-boom configurations. When used offshore or in open water, the skimmer is towed in a V-boom configuration by a pair of SUPSALV boom handling boats or alternative towboats.

Primary vessel power is provided by a 4-cylinder diesel engine. This engine drives a series of hydraulic pumps, which drive various hydraulic motors and cylinders. Most vessel functions are hydraulically activated. This includes vessel propulsion, steering, and the operation of the bilge pumps, filter belt module, induction pump, and offloading pump. The engine also drives an air compressor to pressurize the filter belt squeeze cylinders.

During oil recovery operations, the vessel is normally towed by two towboats. To eliminate the transit time required to offload oil from the skimmer, an oil storage bladder may be towed.

Engine

SPECIFICATIONS

Roat

<u>Boat</u>		Engine	
Manufacturer	Marine Construction & Design Co. (MARCO)	Manufacturer Model	Detroit Diesel 5043-7201
Draft (empty)	3 ft, 2 in.	Cylinders	4
Draft (loaded)	4 ft	Bore	3.875 in.
Displacement (loaded)	32,000 lb	Stroke	4.5 in.
Body weight	15,500 lb	Displacement	212 cu in.
Side hull	2000 lb	Compression ratio	21:1
Pilot house	500 lb	Idle rpm	650
Speed	5 kts	Maximum rpm	2400
Capacities:		Horsepower	128 shp @ 2800 rpm
Recovery sump	32 bbls	Starting	Electric
Fuel tank, integral	75 gal.	Battery	12 V dc
Hydraulic oil reservoir	75 gal.		
Fuel consumption	6 gph		
Air tank	830 cu in.		

SKIMMER, OIL, SORBENT BELT, MODEL 36' VESSEL (CLASS V) (CONTD)

ESSM NUMBER SK0711

SPECIFICATIONS (Cont'd)

Propulsion Unit

Manufacturer MARCO

Model 40

Propeller size 16-in. diameter x 13-in. pitch

NOTE: Temporary storage of Class V Systems is limited to 565.3 bbls (oil storage bladder & skimmer

holding capacity).

PHYSICAL CHARACTERISTICS

Hull (module)	Shipping	<u>Operational</u>
Length	36 ft, 0 in.	36 ft, 0 in.
Width	8 ft, 0 in.	8 ft, 0 in.
Height	8 ft, 10 in.	16 ft 6 in.
Cube	2544 cu ft	4752 cu ft
Weight	16,000 lb	21,000 lb

Pilot House	<u>Shipping</u>
Length	5 ft, 9 in.
Width	4 ft, 6 in.
Height	8 ft, 6 in.
Cube	220 cu ft
Weight	715 lb

Side Hulls (2): Shipped as part of SK0712. See SK0712 for shipping configurations.

REFERENCES

- 1. Class V and VB Oil Recovery Systems Manual, NAVSEA S9593-BT-OMP-010/09608.
- 2. Series 53 Operator's Manual, Detroit Diesel-Allison.

Downloaded from http://www.everyspec.com



Marine Mobile Citizens Band (CB) Radio RA1709

RADIO, CB, MARINE MOBILE

ESSM NUMBER RA1709

DESCRIPTION

The Marine Mobile Citizens Band (CB) Radio RA1709 is designed for marine use. Features include the ability to receive four of the National Oceanic and Atmospheric Administration (NOAA) weather channels. The CB 40 + 4 radio has 44 channels; 40 CB and 4 weather channels. The 40 CB channels can be used for transmitting and receiving; whereas, the 4 weather channels are for receiving only.

SPECIFICATIONS

Frequency range

Citizens band 26.965 to 27.405 MHz Weather band (receive only) 161.665 to 162.550 MHz

Channels total: 44
Citizens band 40
Weather band 4

Input voltage 13.8 V dc $\pm 20\%$ Temperature range -20°C to +50°C

Transmitter (citizens band only)

RF output 4 W maximum

Receiver (CB)

Audio output at 10% distortion 5 W

Audio response 300 Hz to 3 kHz, 3 dB

Channel spacing 10 kHz Hum and noise at 100 kV 45 dB

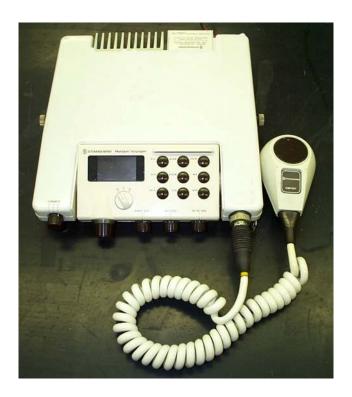
PHYSICAL CHARACTERISTICS

Operating/Shipping

Length	9 in.
Width	6 in.
Height	2 in.
Weight	3 lb
Cube	1 cu ft

REFERENCES

1. Owner's Manual, CB 40 + 4 H-Watt Citizens Band Marine Transceiver.



76-Channel Voyager Marine Mobile VHF Radio RA1830

RADIO, VHF, MARINE MOBILE, VOYAGER (76-CHANNEL)

ESSM NUMBER RA1830

DESCRIPTION

The 76-Channel Voyager Marine Mobile VHF Radio RA1830 is a marine VHF/FM transceiver with public address system and intercom features in a single moisture-resistant console. The Horizon Voyager requires 13.8 V dc for operation, can develop a switchable RF output power of 1 watt or 25 watts, and operates in the frequency range of 156.050 to 163.275 MHz.

The Horizon Voyager has a capacity of 76 channels: 55 programmed marine transmit/receive channels, 6 weather channels, and 15 transmit/receive expansion channels. The 55 marine channels are switchable for use with USA, international, or Canadian regulations. Should the FCC increase the number of marine channels, the Voyager may be programmed by qualified dealers for 15 new transmit and receive frequencies. The one-touch Channel 16 access allows immediate selection of emergency Channel 16.

SPECIFICATIONS

Manufacturer Standard

Model Horizon Voyager GX2200S

Channels 76 total: 55 marine

6 weather 15 expansion

Input voltage $13.8 \text{ V dc} \pm 20\%$

Frequency range 156.050 to 163.275 MHz Transmitter RF output 25 W high, 1 W low

PHYSICAL CHARACTERISTICS

Operating/Shipping

8 in.
7 in.
2 in.
1 cu ft
3 lb

REFERENCES

1. Horizon Voyager GX2200S Owner's Manual.



VHF Marine Mobile Radio RA1831

RADIO, VHF, MARINE MOBILE, ICOM (58-CHANNEL)

ESSM NUMBER RA1831

DESCRIPTION

The Icom VHF Marine Mobile Radio RA1831 is a marine VHF/FM transceiver with intercom features and a public address system in a moisture-resistant console. The radio requires a supply voltage of 13.8-volt dc negative ground and operates in the frequency range of 156-163 MHz. The radio has 58 programmed marine transmit/receiver channels and 10 weather channels.

The radio has the following advanced features: voltage source deviation indicator; 25W of high transmission output power; dual watch and a variety of scans; 20 user-programmed memory channels; momentary high power on Channels 13 and 67; single-tone, double high-tone, and double low-tone beeps; high sensitivity and strong intermodulation rejection; and a built-in lithium battery to retain the information programmed into the memory channels. The life of the lithium battery is approximately 5 years. The Icom radio models IC-M56, IC-M58, and IC- M402S are currently in use in the ESSMMIS System with their appropriate instruction manuals. All models are functionally equivalent.

SPECIFICATIONS

Manufacturer Icom Model IC-M56 IC-M58

IC- M402S

Usable temperature range -20° to +60°C (-4 to +140°F) Power supply voltage 13.8 V dc negative ground

Channels:

Transmit 48
Weather 10

Receiver:

Frequency range 156 to 163 MHz Audio output power 4W with a 4-ohm load

Intermediate frequency 1st: 21.8 MHz; 2nd: 455 kHz

Transmitter:

Frequency range 156 to 157.5 MHz
Output power 25 W high, 1 W low

RADIO, VHF, MARINE MOBILE, ICOM (58-CHANNEL) (CONTD)

ESSM NUMBER RA1831

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length8 in.Width7 in.Height2 in.Cube1 cu ftWeight3 lb

REFERENCES

- 1. Instruction Manual, Icom IC-M56.
- 2. Instruction Manual, Icom IC-M58.
- 3. Instruction Manual, Icom IC-M402S.

Downloaded from http://www.everyspec.com



Oil Boom Roller RO0501

ROLLER, OIL BOOM

ESSM NUMBER RO0501

DESCRIPTION

The Oil Boom Roller RO0501 is designed to prevent damage to the oil containment boom during deployment or recovery. It can be placed at the edge of a pier or dock and the boom deployed over it. The boom roller has a manual brake assembly that is used to control the rate of feed over the roller as the boom is deployed.

SPECIFICATIONS

Manufacturer ESSM Facility

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length	6 ft, 3 in.
Width	3 ft, 4 in.
Height	3 ft, 11 in.
Cube	82 cu ft
Weight	464 lb

REFERENCES

1. Boom Roller Assembly and Details, NAVSEA Dwg. # 6579538.



36' Modified Skimmer SK0711 Tool Box TL0020

TOOL BOX, 36' MODIFIED SKIMMER SK0711

ESSM NUMBER TL0020

DESCRIPTION

The 36' Modified Skimmer SK0711 Tool Box TL0020 is a basic mechanic's tool set that contains 1/2-inch and 3/8-inch-drive sockets and accessories, combination, open end and adjustable wrenches, pliers, hammers and other miscellaneous tools. It contains the necessary tools to set up and perform basic repairs on the 36' Modified Skimmer SK0711.

SPECIFICATIONS

Manufacturer ESSM Facility

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length 1 ft, 10 in.
Width 9 in.
Height 10 in.
Cube 2 cu ft
Weight 62 lb

REFERENCES

None



Hydraulic Pressure Washer WA0700

WASHER, PRESSURE, HYDRAULIC MODEL-4403K0

ESSM NUMBER WA0700

DESCRIPTION

The Hydraulic Pressure Washer WA0700 is a high pressure, cold water cleaner that is used to remove oil and dirt from equipment by spraying high pressure water on the equipment. The pressure washer can use either fresh or salt water as a cleaning medium.

SPECIFICATIONS

Manufacturer ALTO Denmark

Model 4403K0 Maximum pump pressure 2610 psig

Water volume:

Maximum 20.5 gal.
Minimum 5.42 gal.
Maximum inlet water temp. 150°F
Self-priming maximum lift 16 ft

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length 2 ft, 2 in.
Width 1 ft, 1 in.
Height 1 ft, 10 in.
Cube 5 cu ft
Weight 84 lb

REFERENCES

1. Owner's Manual for Kew Hydraulic Pressure Washer Model 4403K0.





Rack System SK0712 for SK0711

RACK SYSTEM FOR SK0711

ESSM NUMBER SK0712

DESCRIPTION

The Rack System SK0712 is designed to carry the skimmer sides, boom, oil bladder, spare parts, tools, rigging, and all ancillary equipment to complete the Rapid Deployment Skimmer System P16100.

SPECIFICATIONS

Manufacturer ESSM Facility

Rack System SK0712 consists of:

- 1 Side hulls (2)
- 2. Absorbent materials
- 3. Storage bladder blower (BL0403)
- 4. Storage bladder buoy (BU0023)
- 5. Cargo net
- 6. Workboat (WB0717)
- 7. Air Compressor (AC0501)

- 8. Oil Storage Bladder (OB0809)
- 9. Twelve, 660-foot sections of boom (BM0738)
- 10. Boom Storage Pallet (BM0876)
- 11. Lifting slings (SL0012)
- 12. Outboard Motor, 15-Hp (MT0940)
- 13. Ancillary equipment

PHYSICAL CHARACTERISTICS

	Shipping	
Length	32 ft, 6 in.	
Width	8 ft, 0 in.	
Height	8 ft, 0 in.	
Cube	2080 cu ft	
Weight	21,180 lb	

REFERENCES

None



Air Compressor AC0501

AIR COMPRESSOR, 19 CFM @ 125 PSI, DIESEL

ESSM NUMBER AC0501

DESCRIPTION

The Air Compressor AC0501 is a two-stage, high volume air compressor that provides 19 cfm at 125 psig. The air compressor is powered by a 1-cylinder, 6.2-hp diesel engine which has its own fuel supply tank. The engine is designed to operate at a continuous speed of 3600 rpm for long periods of time. The engine and compressor are enclosed in a protective frame that is mounted on top of a 30-gallon air storage tank with wheels, which allows for easy maneuverability.

SPECIFICATIONS

Air Compressor

Air Compressor Assembly

Manufacturer	Emglo Products
Model	GC8YDA-17F

Manufacturer	Emglo Products	Manufacturer	Yanmar
Model	JU	Model	L60
Capacity	19 cfm	Cylinders	1
Rated operating pressure	125 psi	Bore	2.95 in.
Operating pressure range	100 to 120 psig	Stroke	2.44 in.
Stages	2	Displacement	16.7 cu in.
Rpm	875	Rpm (continuous)	3600
Storage tank	30 gallons	Compression ratio	20:1
Cylinders	2	Starting	Elec./recoil
		Battery	12 V dc
		Fuel	Diesel

Engine

Fuel consumption

PHYSICAL CHARACTERISTICS

Operating/Shipping	
3 ft, 6 in.	
2 ft, 1 in.	
3 ft, 0 in.	
22 cu ft	
398 lb	

0.5 gph

AIR COMPRESSOR, 19 CFM @ 125 PSI, DIESEL (CONTD)

ESSM NUMBER AC0501

REFERENCES

- Yanmar Diesel Engine Operation Manual for L-Series Engine.
 Emglo Parts Price List J 288.

Downloaded from http://www.everyspec.com



Portable Electric Blower BL0403

BLOWER, ELECTRIC, PORTABLE

ESSM NUMBER BL0403

DESCRIPTION

The Portable Electric Blower BL0403 consists of a 120-volt, 60-cycle motor and squirrel cage type blower. The blower is used to inflate the empty Dracone to permit entry during inspection and repair. This blower will inflate an "L" type Dracone in approximately 60 minutes. A collapsible polyester duct or spiral tube duct can be attached to the blower outlet for normal pressure operations.

SPECIFICATIONS

Manufacturer	Homelite
Model	200 EB-1
Voltage	120/240
Cycles	60
Phase	Single

PHYSICAL CHARACTERISTICS

Length	2 ft, 0 in.
Width	1 ft, 4 in.
Height	1 ft, 5 in.
Cube	4 cu ft
Weight	66 lb

REFERENCES

None



Model USS-42 Oil Containment Boom BM0738

BOOM, OIL CONTAINMENT, MODEL USS-42, 42" X 55'

ESSM NUMBER BM0738

DESCRIPTION

The Oil Containment Boom, Model USS-42 BM0738, is constructed of nitrile/vinyl rubber-impregnated, high strength nylon cloth that resists abrasions, gouging, oil, and salt water. The standard 55-ft section has five 10-ft long, 14-inch diameter inflation chambers with inflation/deflation valves. There is a 10-inch piece of rubberized fabric that separates adjoining chambers and provides flexibility for the boom. Each inflation section is completely vulcanized, with no stitched seams that can pull apart.

The boom has a skirt that extends 24 inches below the inflation chambers for containing the oil. A 1/2-inch galvanized chain runs through a reinforced pocket on the bottom of the skirt. This chain acts as a ballast/tension member to keep the skirt in a vertical position. There are six metal lifting handles vulcanized to each inflation section for deployment and recovery of the boom. In addition, there are two large lifting eyes vulcanized to the end chamber sections for lifting the boom sections into and out of the water. Highly visible orange strips are located at the first and third handle positions of each inflation chamber for improved visibility of the boom when it is waterborne.

SPECIFICATIONS

Manufacturer	Engineered Fabrics

USS-42 Model 2 - 3 psig Inflation pressure Test pressure 6 psig Draft 22 in. Freeboard 16 in. Overall height inflated 42 in. Overall height deflated 52 1/2 in. Section length 55 ft Weight per foot 6.7 lb

Flotation chamber:

Diameter 14 in.
Length 10 ft
Air valves per chamber 2
Chamber buoyancy 950 lb
Handle spacing 4 ft

Materials:

Coated fabric Nitrile/vinyl rubber-impregnated high strength nylon cloth

Color Black with high visibility orange strips

Ballast 1/2-in. galvanized steel chain, 45,000-lb tensile strength

BOOM, OIL CONTAINMENT, MODEL USS-42, 42" X 55' (CONTD)

ESSM NUMBER BM0738

SPECIFICATIONS (Cont'd)

End connections Anodized 6061-T6 aluminum alloy extrusion

Connector plate Stainless steel
Clevis, shackles, & oblong clevis pins Galvanized steel

Inflation/deflation valves Plastic with stainless steel hardware

PHYSICAL CHARACTERISTICS

	Operating*
Length	55 ft, 0 in.
Height (overall)	3 ft, 6 in.
Diameter (bladder inflated)	1 ft, 3in.
Cube	240 cu ft
Weight	420 lb

^{*}Operating characteristics are for one 55' section of boom.

REFERENCES

- 1. Engineered Fabrics Operations and Maintenance Instructions with Illustrated Parts Breakdown.
- 2. Technical Manual for Oil Containment Boom and Boom Mooring Systems, S9597-AC-MMO-010.

Downloaded from http://www.everyspec.com



USS-42/USS-42HB Boom Storage Pallet BM0876 (Without Boom and Stanchions)



USS-42/USS-42HB Boom Storage Pallet BM0876 (With Eight 65 1/2" Stanchions and Boom)

PALLET, STORAGE, BOOM, USS-42/USS-42HB

ESSM NUMBER BM0876

DESCRIPTION

The 84-inch x 60-inch x 7-inch USS-42/USS-42HB Boom Storage Pallet BM0876 is a storage/shipping container for either the USS-42 or the USS-42HB boom. The pallet has two configurations. One configuration is with stanchions that are 65 1/2 inches in height. This configuration is used in the Oil Containment Boom Vans and is designed to hold 12 sections of USS-42 or USS-42HB. The second configuration is with stanchions that are 31 3/4 inches in height, due to storage restriction in the Sponson Rack SK0712 used in the Modular Skimmer System. This configuration is used with the Modular Skimmer System only and is designed to hold 6 sections of USS-42 or USS-42HB as applicable. The pallet is constructed of 2 and 2 1/2-inch square tubing with a 3/4-inch x #9 expanded metal deck to support the boom.

SPECIFICATIONS

Manufacturer ESSM Facility
Drawing number 6777293

PHYSICAL CHARACTERISTICS

	Shipping (with boom)	Shipping (w/o boom)
Pallet with 65 1/2" stanchions		
Length	7 ft, 0 in.	7 ft, 0 in.
Width	5 ft, 0 in.	5 ft, 0 in.
Height	5 ft, 5 1/2 in.	7 in.
Weight (with USS-42HB)	5626 lb	NA
Weight (with USS-42)	5962 lb	NA
Weight (without boom)	NA	700 lb
Cube	191 cu ft	20 cu ft
Pallet with 31 3/4" stanchions		
Length	7 ft, 0 in.	7 ft, 0 in.
Width	5 ft, 0 in.	5 ft, 0 in.
Height	2 ft, 7 3/4 in.	7 in.
Weight (with USS-42HB)	3250 lb	NA
Weight (USS-42)	3442 lb	NA
Weight (without boom)	NA	636 lb
Cube	93 cu ft	20 cu ft

REFERENCES

1. USS-42 & USS-42HB Equipment Container & Pallets, NAVSEA Dwg. 6777293.



Dracone Marker Buoy BU0023

BUOY, MARKER, DRACONE

ESSM NUMBER BU0023

DESCRIPTION

The Dracone Marker Buoy BU0023 consists of a 40" diameter styrofoam base for flotation. Extending 22" above the base is a 12" diameter column, which houses a 6-volt battery and a steady-burn white light with lens. The light's on/off function is controlled automatically by a photocell. The Marker Buoy is to be exhibited at or near the aftermost part of the Dracone being towed or moored.

SPECIFICATIONS

Manufacturer Curd Enterprises

PHYSICAL CHARACTERISTICS

Height 4 ft, 2 in.
Diameter 3 ft, 4 in.
Cube 47.5 cu ft
Weight 92 lb

REFERENCES

None



5' x 5' x 12" Machinery Containment Pool CP3000

CONTAINMENT POOL, MACHINERY, 5' x 5' x 12"

ESSM NUMBER CP3000

DESCRIPTION

The Machinery Containment Pool CP3000 is a 5' x 5' x 12" urethane berm. Its is used to provide a means of catching and containing any oil, fuel, or contaminants leaking or spilled from the component that it is supporting.

SPECIFICATIONS

Manufacturer Basic Concepts
Fabric material Cooley Urethane

PHYSICAL CHARACTERISTICS

	<u>Operating</u>	Shipping
Length	5 ft, 0 in.	1 ft, 8 in.
Width	5 ft, 0 in.	1 ft, 8 in.
Height	1 ft, 0 in.	6 in.
Cube	25 cu ft	1.5 cu ft
Weight	34 lb	34 lb

REFERENCES

None



15-Hp Outboard Motor MT0940

MOTOR, OUTBOARD, 15-HP

ESSM NUMBER MT0940

DESCRIPTION

The Outboard Motor MT0940 is a 2-cycle, 15-hp outboard motor with a long shaft. The motor has manual starting and uses a 6-gallon auxiliary fuel tank.

SPECIFICATIONS

Manufacturer OMC, Johnson Division

Power at propeller shaft 15 hp Max. operating rpm 7000 rpm

Fuel Gasoline (mixed w/50:1 outboard motor oil)

Fuel tank capacity 6 gallons, external

Propeller 9 ½" diameter x 10" pitch

Starting Recoil (pull start)

PHYSICAL CHARACTERISTICS

	Shipping
Length	1 ft, 8 in.
Width	1 ft, 0 in.
Height	3 ft, 6 in.
Cube	6 cu ft
Weight	77 lb

REFERENCES

- 1. Manual for Johnson Outboards, Model 9-15, No. 433276C.
- 2. Evinrude-Johnson Service Manual, Models 2 through V6, PN 507508.
- 3. Outboard Marine Corporation Special Tool Guide, PN 395402.
- 4. Outboard Marine Corporation Parts Catalog for 15-Hp Motors.



Bladder Repair Kit OB0801

REPAIR KIT, BLADDER

ESSM NUMBER OB0801

DESCRIPTION

The Bladder Repair Kit OB0801 consist of various tools, a patching kit with patching procedures, a white marker light, two 6-volt batteries and bulbs, MSDS sheets, and a laminated inventory. The Repair Kit is designed to maintain the oil storage bladder during an operational deployment.

SPECIFICATIONS

Manufacturer ESSM Facility

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length 1 ft, 8 in.
Width 10 in.
Height 1 ft, 1 in.
Cube 2 cu ft
Weight 34 lb

REFERENCES

None



Spill Recovery Bladder OB0809

BLADDER, SPILL RECOVERY, 26K-GALLON, TYPE E, RUBBER

ESSM NUMBER OB0809

DESCRIPTION

The Spill Recovery Bladder OB0809 is a flexible tube designed to carry petroleum products and other liquids lighter in weight than water. The spill recovery bladder's skin is made up of nylon cord, a woven nylon fabric that has been weatherproofed, and abrasion-resistant synthetic rubber.

The spill recovery bladder is towed behind the skimming vessel using a 6-inch towline. A 6-inch loading and discharge hose is attached to the towline for filling and discharging the skimmed oil to and from the bladder.

SPECIFICATIONS

Manufacturer Dunlop

Model Type E, Dracone Barge

Capacity:

 100% full
 26,400 gallons/628 bbls

 85% full
 22,400 gallons/534 bbls

Outer proofing Neoprene rubber Inner proofing Nitrile rubber

PHYSICAL CHARACTERISTICS

	<u>Operating</u>	Shipping (w/ancillary equipment)
Length	126 ft, 0 in.	10 ft, 10 in.
Width	NA	5 ft, 11 in.
Height	NA	5 ft, 9 in.
Diameter	6 ft, 2 in.	NA
Weight	5324 lb	2630 lb
Cube	3763 cu ft	369 cu ft

REFERENCES

1. The Dracone Barge Operating Manual, Issue 3.



16' Polyester Roundslings SL0012 (4 per van)

ROUNDSLING, POLYESTER, 16'

ESSM NUMBER SL0012

DESCRIPTION

The 16' Polyester Roundsling SL0012 is an endless synthetic sling made from a skein (continuous loop or hank) of polyester yarn covered by a double-wall tubular jacket. Each sling is supplied with a 1" screw pin-type shackle. Four 16' Polyester Roundslings are used for lifting the van to which they are assigned.

SPECIFICATIONS

Sling		Shackle	
Manufacturer	Lift-All	Manufacturer	Crosby
Model	EN240	Part number	G-209-A
Vertical SWL	21,200 lb	Size	1 in.
Choker SWL	17,000 lb	Working load limit	25,000 lb
Basket SWL	42,400 lb		
Overall length	16 ft, 0 in.		

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length (operating)	16 ft, 0 in.
Cube (coiled for shipping)	4 cu ft
Weight	18 lb

REFERENCES

1. Lift-All 1998 Catalog.



Inflatable 15 'Boat WB0717

BOAT, 15' INFLATABLE

ESSM NUMBER WB0717

DESCRIPTION

The 15' Inflatable Boat WB0717 is a lightweight, multi-purpose boat. The boat is used to transport people, equipment, and supplies, and for numerous other jobs.

The hull is a U-shaped chamber with conical airtight bulkheads that ensure safety and balance of pressure in the different compartments. An additional airtight compartment is the inflatable keel, which gives the bottom a V-shaped configuration.

The boat is equipped with aluminum floorboards, paddles, running lights, an anchor light, a stern light, a boat hook, and the necessary ancillary gear to operate and maintain it.

SPECIFICATIONS

Manufacturer Zodiac Model Mark III GR

Type 3470 Max. persons on board 8 Load capacity 2205 lb

Max. horsepower 65

PHYSICAL CHARACTERISTICS

Length	4 ft, 11 in
Width	2 ft, 6 in.
Height	1 ft, 2 in.
Cube	14 cu ft
Weight	144 lb

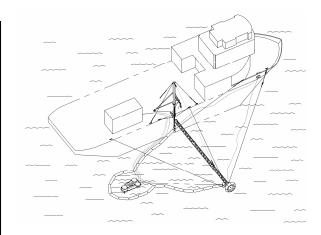
REFERENCES

Maintenance and Assembly Manual for Zodiac Models Mark I, II, III.

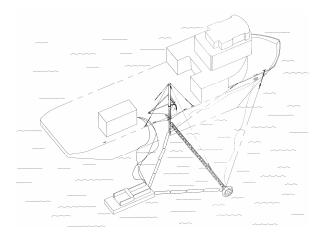
Shipping

Downloaded from http://www.everyspec.com

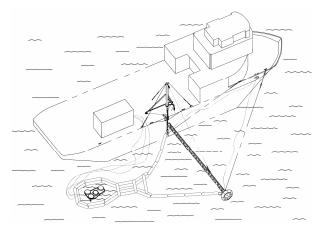
VESSEL OF OPPORTUNITY SKIMMER SYSTEM P16300



Destroil VOSS



Class XI VOSS



High Speed Current Buster VOSS

Configurations for the Vessel of Opportunity Skimmer System P16300

VESSEL OF OPPORTUNITY SKIMMER SYSTEM

SYSTEM NUMBER P16300

SYSTEM DESCRIPTION

The Vessel of Opportunity Skimming System (VOSS) P16300 is a modular oil recovery skimmer system, which can be secured to and operated from a large vessel of opportunity at a spill site. Through this system, a vessel such as an offshore towboat, supply boat, or fishing vessel can be transformed into an oil recovery vessel. The VOSS allows for continuous skimming operations, limited only by adverse weather conditions and darkness. It consists of an in-water oil recovery unit, oil collection (V-) boom, a portable outrigger system to support the leading end of the outboard V-boom leg, and the ancillary equipment necessary to set up, maintain, and operate the VOSS.

There are three alternate configurations of the Vessel of Opportunity Skimming System: the Destroil Type Skimmer System, the Class XI Skimmer System, and the High Speed Current Buster Skimmer System. The alternate configurations are functionally the same; however, the performance characteristics may vary slightly from one another.

The Destroil Type VOSS consists of the following: an 8' x 8' x 20' van used to store and ship the system components and ancillaries; four lifting slings; 110' of fence-type boom with foam flotation used to contain and control spilled oil; a portable outrigger system to support the leading end of an outboard boom leg; an in-water oil recovery unit; a hydraulic power unit to power the hydraulic components of the system; a machinery containment pool used to catch and contain any oil, fuel, or contaminants leaking or spilled from the HPU; a hose reel to store the discharge, air, and hydraulic hoses; a pressure washer for cleaning system equipment; and a tool box with tools for assembly and maintenance of the system.

The Class XI VOSS consists of the following: two 8' x 8' x 20' vans used to store and ship the system components and ancillaries; four lifting slings per van; an in-water oil recovery unit with two 55' sections of boom to contain and control spilled oil; a hydraulic power unit to power the hydraulic components of the system; two machinery containment pools to catch and contain any oil, fuel, or contaminants leaking or spilled from the equipment; a pressure washer for cleaning system equipment; tool boxes with tools for assembly and maintenance of the system; an 8-ton knuckle crane used to lift and maneuver system components; and an ancillary kit with rigging components necessary for crane operation.

The High Speed Current Buster VOSS consists of the following: an 8' x 8' x 20' van used to store and ship the system components and ancillaries; four lifting slings; two 26" x 55' sections of USS-26 Oil Containment Boom to lengthen the guide boom of the High Speed Current Buster Skimmer; a High Speed Current Buster Skimmer for collecting and separating the spilled oil; a storage reel used as a storage/shipping platform for the High Speed Current Buster Skimmer; a portable outrigger system to support the leading end of an outboard boom leg of the High Speed Current Buster Skimmer; three inwater oil recovery units, (a weir-type skimmer, a brush-type skimmer, and a 2" Skim-Pak Skimmer);

VESSEL OF OPPORTUNITY SKIMMER SYSTEM (CONTD)

SYSTEM NUMBER P16300

ESSM Number

Otv

a hydraulic power unit which powers the weir-type skimmer and the skimmer storage reel; a hydraulic power pack which powers the Minimax 12 Skimmer; a 2" Peristaltic Diesel Pump for operating the 2" Skim-Pak and inflating the USS-26 boom; two 2-cycle, gas-powered portable blowers to inflate the High Speed Current Buster Skimmer; two machinery containment pools; a pressure washer for cleaning system equipment; and a tool box with tools for assembly and maintenance of the system.

SYSTEM COMPONENTS

Item

<u>Item</u>	ESSM Number	Qty
Vessel of Opportunity Skimmer System a. Destroil VOSS (Altn)	P16300	1
Van, Destroil Oil Skimmer System	VA0930	1
Boom, Oil Containment, 60" x 110', Urethane	BM0819	1
Containment Pool, Machinery, 10' x 6' x 12", Cooley Urethane	CP3010	1
Outrigger Assembly, VOSS	OA0010	1
Pump, Submersible, 6", Hyd, Auger (Type 210)	PU0802 (not shown)	
Hose Reel Assembly for SK0800	PU0804	1
Skimmer, Oil, Destroil, Weir-Type	SK0800	1
Power Unit, Hyd, Diesel, for SK0800	SK0801	1
Roundsling, Polyester, 16'	SL0012	4
Tool Box, Destroil Skimmer System	TL0019	1
Washer, Pressure, Hydraulic, Kew Model-4403K0S	WA0700 (Altn)	1
Washer, HP, Water w/Destroil	WA0808	1
b. Class XI VOSS (Altn) Van, Class XI Skimmer System (Van 1 of 2)	VA0924	1
Skimmer, Oil, Sorb Belt, Class XI System	SK0924	1
Belt, Light Oil, Class XI Skimmer	SK0728 (not shown)	1
Roundsling, Polyester, 16'	SL0012	4
Van, Class XI Skimmer System (Van 2 of 2)	VA0925	1
Containment Pool, Machinery, 10' x 6' x 12"	CP3010	1
Outrigger Assembly, VOSS	OA0010	1
Power Unit, Hyd, Dsl, Class XI	PW0924	1
Tool Box, Class XI Skimmer System	TL0018	1
Crane, 8-Ton, Portable, Hyd, 40' Knuckle Boom	CR0040	1
Rigging Box For CR0040	CR0041	1
Block, Head, 1/2" Wire Rope	BK0036 (not shown)	1
Block, Snatch, 1/2" Wire Rope, 8-Ton	BK0037 (not shown)	1
Hook, Safety, 1 3/4", 4.5-Ton	HK0004 (not shown)	1
Hook, Safety, 2", 5-Ton	HK0005 (not shown)	1

VESSEL OF OPPORTUNITY SKIMMER SYSTEM (CONTD)

SYSTEM NUMBER P16300

	Hook, Safety, 2 1/2", 9-Ton	HK0007 (not shown)	1
	Hook, Safety, 3", 12-Ton	HK0009 (not shown)	1
	Tension Meter, Digital, 20k-Pound Capacity	SE2108	1
	Tool Box for CR0040	TL0021	1
c.	High Speed Current Buster VOSS (Altn)		
	Van, Skimmer, High Speed Current Buster	VA0935	1
	Blower, Portable, Gas-Powered, 2-Cycle	BL0025	2
	Containment Pool, Machinery, 5' x 5' x 12", Cooley Urethane	CP3000	2
	Containment Pool, Machinery, 10' x 6' x 12", Cooley Urethane	CP3010	1
	Outrigger Assembly, VOSS	OA0010	1
	Pump, Peristaltic, 2" Diesel	PU0300	1
	Power Unit, Hyd, Model HT50DQV, 25 gpm @ 3000 psi	PW0050	1
	Power Pack, Model LPP 6HA/C75	PW0055	1
	Reel, Skimmer, High Speed Current Buster	RL0051	1
	Boom, Oil Containment, Model USS-26, 26" x 55'	BM0760	2
	Skimmer, High Speed Current Buster	SK0050	1
	Skimmer, Minimax 12	SK0055	1
	Skimmer, Weir, LWS-50	SK0056	1
	Skim-Pak, 2", 4000-Gph	SK0620	1
	Roundsling, Polyester, 16'	SL0012	4
	Tool Box, High Speed Current Buster Skimmer	TL0026	1
	Washer, Pressure, Hydraulic, Kew Model-4403K0S	WA0700	1



Destroil Oil Skimmer System Van VA0930 (Interior)



Destroil Oil Skimmer System Van VA0930

VAN, DESTROIL OIL SKIMMER

ESSM NUMBER VA0930

The Destroil Oil Skimmer Van VA0930 is a storage/shipping container for the following components of the Destroil skimming system: four lifting slings for lifting the van; 110' of fence-type boom with foam flotation used to contain and control spilled oil; a portable outrigger system to support the leading end of an outboard boom leg; an in-water oil recovery unit to recover the oil; a hydraulic power unit which powers the hydraulic components of the system; a machinery containment pool used to catch and contain any oil, fuel, or contaminants leaking or spilled from the HPU; a hose reel to store the discharge, air, and hydraulic hoses; a pressure washer for cleaning system equipment; a tool box with tools for assembly and maintenance of the system; and the necessary ancillary equipment to operate and maintain the skimmer system in the field.

SPECIFICATIONS

Manufacturer ESSM Facility

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length	20 ft, 0 in.
Width	8 ft, 0 in.
Height	8 ft, 0 in.
Cube	1280 cu ft
Weight	14,830 lb

REFERENCES

None



Oil Containment Boom BM0819

BOOM, OIL CONTAINMENT, 60" X 110', URETHANE

ESSM NUMBER BM0819

DESCRIPTION

The 60" x 110' Oil Containment Boom BM0819 is a simple fence-type boom with foam flotation, fiberglass vertical stiffeners (battens), integral top rope tension member, and chain ballast. Each section of boom is fitted with special sewn webbing quick connects, which are bolted to the top and bottom edges of the boom through the battens. The quick connects provide simple and strong attachment points for boom support bridles which transfer towing forces to the aft guide line.

SPECIFICATIONS

Manufacturer Hyde Products

Fabric Polyvinyl-chloride (PVC)

PHYSICL CHARACTERISTICS

	Shipping
Length	5 ft, 7 in.
Width	5 ft, 7 in.
Height	6 ft, 9 in.
Cube	200 cu ft
Weight	1360 lb

REFERENCES

None



10' x 6' x 12" Machinery Containment Pool CP3010

CONTAINMENT POOL, MACHINERY, 10' X 6' X 12"

ESSM NUMBER CP3010

DESCRIPTION

The Machinery Containment Pool CP3010 is a 10' x 6' x 12" urethane berm. It is used to provide a means of catching and containing any oil, fuel, or contaminants leaking or spilled from the hydraulic power unit or other equipment.

SPECIFICATIONS

Manufacturer Basic Concepts
Fabric material Cooley Urethane

PHYSICAL CHARACTERISTICS

	<u>Operating</u>	<u>Shipping</u>
Length	10 ft, 0 in.	1 ft, 8 in.
Width	6 ft, 0 in.	1 ft, 8 in.
Height	1 ft, 0 in.	6 in.
Cube	60 cu ft	1.5 cu ft.
Weight	56 lb	34 lb

REFERENCES

None



VOSS Outrigger Assembly OA0010



VOSS Outrigger Assembly OA0010 (Deployed)

OUTRIGGER ASSEMBLY, VOSS

ESSM NUMBER OA0010

DESCRIPTION

The VOSS Outrigger Assembly OA0010 is designed to meet the rigorous requirements for a boom that is light in weight, high in strength, and easily deployed. The outrigger arm assembly consists of three truss sections with flanged ends, an outboard float with mounting flange, a universal assembly with mounting bolt flange, and a pad eye plate for attachment of rigging to the outboard end of the arm with the mounting bolt pattern. Each truss section has welded end plates with a symmetrical bolt pattern for a strong connection and easy alignment. The outrigger sections are completely interchangeable and can be assembled from two sections to form a 28-foot wide sweep or from three sections to form a 42-foot sweep. The outrigger arm length must be determined based on limitations of the available vessel and expected skimming conditions. The design working compressive strength of the 42-foot outrigger arm is 8000 lb and is substantially higher for the 28-foot arm.

SPECIFICATIONS

Each outrigger assembly is shipped in six pieces:

3 truss sections with flanged end connections (60 lb)

Outboard float with mounting flange (8 lb)

Universal joint (U-joint) assembly with mounting flange (15 lb)

Pad eye plate (for attachment of rigging to the outboard end of the arm) with mounting bolt pattern (3 lb)

PHYSICAL CHARACTERISTICS

Per	truss	section
		Dection

Length	14 ft, 6 in.
Width	14 in.
Height	14 in.
Cube	20 cu ft
Weight	60 lb

REFERENCES

1. NAVSEA Drawing Class XI Outrigger Arm (VOSS), Dwg # 6777303.



Hose Reel Assembly for SK0800 $\,$

HOSE REEL ASSEMBLY FOR SK0800

ESSM NUMBER PU0804

DESCRIPTION

The Hose Reel Assembly PU0804 is skid-mounted and manually operated. The hose reel is used to reel up and store the two sections of 3/4" x 50' and the two sections of 3/8" x 50' hydraulic hoses, one section of 3/8" x 100' of air hose, and the one section of 6" x 100' discharge hose that is used with the Destroil VOSS.

SPECIFICATIONS

Manufacturer Desmi

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length	6 ft, 5 in.
Width	3 ft, 3 in.
Height	5 ft, 9 in.
Cube	112 cu ft
Weight	1602 lb

REFERENCES

None



Weir-Type Destroil Oil Skimmer SK0800



Shipping Configuration for Weir-Type Destroil Oil Skimmer SK0800

SKIMMER, OIL, DESTROIL, WEIR-TYPE

ESSM NUMBER SK0800

DESCRIPTION

The Destroil Weir-Type Oil Skimmer SK0800 is fitted with a modified positive displacement Archimedean screw pump. The screw pump is able to efficiently recover light oil as well as very heavy oil, even when mixed with debris normally found in connection with oil spills. A special cutting zone is incorporated in the design, which allows debris such as seaweed, ice, wood, garbage, dead sea birds, and small animals not to affect the skimmer oil recovery capability. If the pump does become jammed, the rotation of the pump can be reversed to free the jam.

The skimmer is fitted with 3 floats to provide the necessary buoyancy for the unit. One of the floats is air-controlled from the hydraulic power unit to ensure optimal positioning of the inlet weir relative to the oil surface. Hydraulic hoses of approximately 130 feet in length connect the hydraulic power unit to the skimmer, and quick disconnect couplings are used throughout. An additional 130-foot length of discharge hose is used to pump the recovered oil from the skimmer to a storage container. The hoses will not affect the buoyancy of the skimmer as they are fitted with floats to keep them afloat.

SPECIFICATIONS

Manufacturer DESMI, Denmark

Model DS-210
Max. hydraulic working pressure 3000 psig
Max. screw speed 400 rpm

Hydraulic oil specifications Exxon transmission fluid, viscosity 35 cSt at 103°F

Dexron, BP Autran GM-MP

Discharge hose 125 mm = 5 in.
Power source Destroil power pack

Capacity 875 cu ft/hr

Effective daily recovery rate: 1371 bbls (24-hour day)

SKIMMER, OIL, DESTROIL, WEIR-TYPE (CONTD)

ESSM NUMBER SK0800

PHYSICAL CHARACTERISTICS

	Operating/Shipping	
Length	8 ft, 3 in.	
Width	5 ft, 7 in.	
Height	3 ft, 0 in.	
Cube	146 cu ft	
Weight	790 lb	

REFERENCES

1. Operation and Maintenance Manual for Destroil Skimmer System, Skimmer Type DS210/MK2, Power Pack Type DSPP/MK2.

Downloaded from http://www.everyspec.com



Hydraulic Power Unit SK0801



Shipping Configuration for Hydraulic Power Unit SK0801

POWER UNIT, HYDRAULIC, DIESEL FOR SK0800

ESSM NUMBER SK0801

DESCRIPTION

The Diesel Power Hydraulic Unit SK0801 is comprised of a diesel driven hydraulic pump, an air compressor, oil and fuel tanks, and a silencer with spark arrestor. The hydraulic power unit is used to operate the skimmer unit SK0800 and hydraulically controlled ancillary equipment. The unit is protected by an aluminum-enclosed frame and all controls and instruments are concentrated in one panel.

SPECIFICATIONS

Engine	Hydraulic Pump

Manufacturer	Deutz	Manufacturer	Hamworthy Hydreco
Model	F2L511	Model	AP4B3C1C2-R20
Type	Air-cooled	Type	Pressure flow axial
Displacement	105.6 cu in.		piston pump
Cylinders	2	Working pressure	725 psig
Starter	Hydraulic	Max. continuous pressure	2900 psig
Power	9.5 kW @ 2500 rpm	Max. working pressure	1000 psig
Air filter	Oil bath	Flow rate	0 - 21 gallons

Hydraulic oil tank

Hydraulic hose connection

Fuel source 21-gallon integral

fuel tank

HD or HDC

Diesel

Air Compressor

Lube oil

Fuel

Manufacturer Sigurd Stenhoj

Type K66A
Max. pressure 140 psi
Flow rate .5 cfm
Lube oil capacity 0.3 gallon

21 gallons

Quick disconnect

POWER UNIT, HYDRAULIC, DIESEL FOR SK0800 (CONTD)

ESSM NUMBER SK0801

PHYSICAL CHARACTERISTICS

α_1 .	•		. •	
\h1r	min	$\alpha / (-1)$	neratino	T
JIII	יווועי	<u> </u>	perating	=

Length	5 ft, 4 in.
Width	3 ft, 7 in.
Height	4 ft, 4 in.
Cube	83 cu ft
Weight	2114 lb

REFERENCES

1. Operation and Maintenance Manual for Destroil Skimmer System, Skimmer type DS210/MK2 Power Pack Type/MK2.

Downloaded from http://www.everyspec.com



16' Polyester Roundslings SL0012 (4 per van)

ROUNDSLING, POLYESTER, 16'

ESSM NUMBER SL0012

DESCRIPTION

The 16' Polyester Roundsling SL0012 is an endless synthetic sling made from a skein (continuous loop or hank) of polyester yarn covered by a double-wall tubular jacket. Each sling is supplied with a 1-inch screw pin-type shackle. Four 16' Polyester Roundslings are used for lifting the van to which they are assigned.

Shackle

SPECIFICATIONS

Sling

Sing		Shackie	
Manufacturer	Lift-All	Manufacturer	Crosby
Model	EN240	Part number	G-209-A
Vertical SWL	21,200 lb	Size	1 in.
Choker SWL	17,000 lb	Working load limit	25,000 lb
Basket SWL	42,400 lb		
Overall length	16 ft, 0 in.		

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length (operating)	16 ft, 0 in.
Cube (coiled for shipping)	4 cu ft
Weight	18 lb

REFERENCES

1. Lift-All 1998 Catalog.



Destroil Skimmer System Tool Box TL0019

TOOL BOX, DESTROIL SKIMMER SYSTEM

ESSM NUMBER TL0019

DESCRIPTION

The Destroil Skimmer System Tool Box TL0019 is a basic mechanic's tool set that contains 3/8" drive standard sockets and accessories, metric and standard combination wrench sets, adjustable wrenches, pliers, hammers, Phillips and standard screwdrivers, and other miscellaneous tools. It contains the necessary tools to set up and perform basic repairs on the Destroil Oil Skimmer.

SPECIFICATIONS

Manufacturer ESSM Facility

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length 1 ft, 11 in.
Width 10 in.
Height 10 in.
Cube 2 cu ft
Weight 52 lb

REFERENCES

None



Hydraulic Pressure Washer WA0700

WASHER, PRESSURE, HYDRAULIC, MODEL-4403K0

ESSM NUMBER WA0700

DESCRIPTION

The Hydraulic Pressure Washer WA0700 is a high pressure, cold water cleaner that is used to clean oil and dirt from equipment by spraying high pressure water on it. The pressure washer can use either fresh or salt water as a cleaning medium.

SPECIFICATIONS

Manufacturer	Alto/Kew
Model	4403K0
Max. pump pressure	2610 psig

Water volume:

Maximum 20.5 gal.
Minimum 5.42 gal.
Max. inlet water temp. 150°F
Self-priming max. lift 16 ft

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length 2 ft, 2 in.
Width 1 ft, 1 in.
Height 1 ft, 10 in.
Cube 5 cu ft
Weight 84 lb

REFERENCES

1. Owner's Manual for Kew Hydraulic Pressure Washer, Model 4403K0.



Destroil Hydraulic Pressure Washer WA0808

WASHER, HP, WATER W/DESTROIL

ESSM NUMBER WA0808

DESCRIPTION

The Destroil Hydraulic Pressure Washer WA0808 is a high pressure, cold water cleaner that is used to clean oil and dirt from equipment by spraying high pressure water on it. The pressure washer uses fresh water as a cleaning medium.

SPECIFICATIONS

Manufacturer	Alto/Kew
Model	1500
Max. pump pressure	1500 psig

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length	2 ft, 9 in.
Width	1 ft, 0 in.
Height	23 in.
Cube	11 cu ft
Weight	178 lb

REFERENCES

None



Class XI Skimmer System Van VA0924 (Van 1 of 2) Interior



Class XI Skimmer System Van VA0924 (Van 1 of 2)

VAN, CLASS XI SKIMMER SYSTEM (VAN 1 OF 2)

ESSM NUMBER VA0924

The Class XI Skimmer System Van VA0924 is a storage/shipping container for the following components of the Class XI Skimmer System: Class XI sorbent belt oil skimmer, two 1 1/4" x 50', four 1" x 50', and four 3/4" x 50' hydraulic hose assemblies, two 6" x 50' layflat hose assemblies, absorbent pads, lifting slings and shackles.

SPECIFICATIONS

Manufacturer ESSM Facility

PHYSICAL CHARACTERISTICS

Length	20 ft, 0 in.
Width	8 ft, 0 in.
Height	8 ft, 0 in.
Cube	1280 cu ft
Weight	12,800 lb

REFERENCES

1. NAVSEA Class XI-A and XI-B Oil Recovery System, T9593-AR-OMP- 010/09608.



Class XI Sorbent Belt Oil Skimmer SK0924

SKIMMER, OIL, SORBENT BELT, CLASS XI SYSTEM

ESSM NUMBER SK0924

DESCRIPTION

The Class XI System Sorbent Belt Oil Skimmer SK0924 consists of a filterbelt module, an induction pump, a squeeze roller assembly, and an offloading pump. The skimmer assembly is designed to be towed through spilled oil and pick up the water and oil emulsion. As the mixture flows up the filterbelt, the oil and water separate. The water passes through the belt while the oil and debris continues on. A scraper located at the top of the belt scrapes off solid debris and heavy oil, while the oil entrained in the belt is forced out by a squeeze roller. The oil then drips into a hopper, where it is eventually pumped to a support ship or other vessel by the offloading pump.

SPECIFICATIONS

Manufacturer Marine Construction and Design Co.

Model Class XI

Induction pump

Two hydraulically driven propeller-type
Offload pump

Destroil Model DS210 (rated at 20 tons/hr)

PHYSICAL CHARACTERISTICS

Operating/Shipping

 Length
 19 ft, 4in.

 Width
 7 ft, 4 in.

 Height
 6 ft, 9 in.

 Cube
 157 cu ft

 Weight
 4300 lb

REFERENCES

NAVSEA Class XI-A and Class XI-B Oil Recovery System, T9593-AR-OMP-010/09608.



16' Polyester Roundslings SL0012 (4 per van)

ROUNDSLING, POLYESTER, 16'

ESSM NUMBER SL0012

DESCRIPTION

The 16' Polyester Roundsling SL0012 is an endless synthetic sling made from a skein (continuous loop or hank) of polyester yarn covered by a double-wall tubular jacket. Each sling is supplied with a 1-inch screw pin-type shackle. Four 16' Polyester Roundslings are used for lifting the van to which they are assigned.

SPECIFICATIONS

Sling		Shackle	
Manufacturer	Lift-All	Manufacturer	Crosby
Model	EN240	Part number	G-209-A
Vertical SWL	21,200 lb	Size	1 in.
Choker SWL	17,000 lb	Working load limit	25,000 lb
Basket SWL	42,400 lb		
Overall length	16 ft, 0 in.		

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length (operating)	16 ft, 0 in.
Cube (coiled for shipping)	4 cu ft
Weight	18 lb

REFERENCES

1. Lift-All 1998 Catalog.



Class XI Skimmer System Van VA0925 (Van 2 of 2) Interior



Class XI Skimmer System Van VA0925 (Van 2 of 2)

VAN, CLASS XI SKIMMER SYSTEM (VAN 2 OF 2)

ESSM NUMBER VA0925

The Class XI Skimmer System Van VA0925 is a storage/shipping container for the following components of the Class XI Skimmer System; a hydraulic power unit, an outrigger assembly, a machinery containment pool for the HPU, a mechanic's tool box, and the necessary ancillary gear to set up, operate and maintain the Class XI Skimmer System.

SPECIFICATIONS

Manufacturer ESSM Facility

PHYSICAL CHARACTERISTICS

Length	20 ft, 0 in.
Width	8 ft, 0 in.
Height	8 ft, 0 in.
Cube	1280 cu ft
Weight	19,100 lb

REFERENCES

1. NAVSEA Class XI-A and XI-B Oil Recovery System, T9593-AR-OMP- 010/09608.



10' x 6' x 12" Machinery Containment Pool CP3010

CONTAINMENT POOL, MACHINERY, 10' X 6' X 12"

ESSM NUMBER CP3010

DESCRIPTION

The Machinery Containment Pool CP3010 is a 10' x 6' x 12" urethane berm. It is used to provide a means of catching and containing any oil, fuel, or contaminants leaking or spilled from the hydraulic power unit or other equipment.

SPECIFICATIONS

Manufacturer Basic Concepts
Fabric material Cooley Urethane

PHYSICAL CHARACTERISTICS

<u>Operating</u>	Shipping
10 ft, 0 in.	1 ft, 8 in.
6 ft, 0 in.	1 ft, 8 in.
1 ft, 0 in.	6 in.
60 cu ft	1.5 cu ft
56 lb	34 lb
	10 ft, 0 in. 6 ft, 0 in. 1 ft, 0 in. 60 cu ft

REFERENCES

None



VOSS Outrigger Assembly OA0010



VOSS Outrigger Assembly OA0010 (Deployed)

OUTRIGGER ASSEMBLY, VOSS

ESSM NUMBER OA0010

DESCRIPTION

The VOSS Outrigger Assembly OA0010 is designed to meet the rigorous requirements for a boom that is light in weight, high in strength, and easily deployed. The outrigger arm assembly consists of three truss sections with flanged ends, an outboard float with mounting flange, a universal assembly with mounting bolt flange, and a pad eye plate for attachment of rigging to the outboard end of the arm with mounting bolt pattern. Each truss section has welded end plates with a symmetrical bolt pattern for a strong connection and easy alignment. The outrigger sections are completely interchangeable. The outrigger assembly can be assembled from two sections to form a 28-foot wide sweep or from three sections to form a 42-foot sweep. The outrigger arm length must be determined based on limitations of the available vessel and expected skimming conditions. The design working compressive strength of the 42-foot outrigger arm is 8000-lbs and is substantially higher for the 28-foot arm.

SPECIFICATIONS

Each outrigger assembly is shipped in six pieces:

3 truss sections with flanged end connections (60 lb)

Outboard float with mounting flange (8 lb)

Universal joint (U-joint) assembly with mounting flange (15 lb)

Pad eye plate (for attachment of rigging to the outboard end of the arm) with mounting bolt pattern (3 lb)

PHYSICAL CHARACTERISTICS

	Per section
Length	14 ft, 6 in.
Width	14 in.
Height	14 in.
Cube	20 cu ft
Weight	60 lb

REFERENCE

1. NAVSEA Drawing Class XI Outrigger Arm (VOSS), Dwg # 6777303.



Hydraulic Power Unit PW0924

POWER UNIT, DSL/HYD, CLASS XI

ESSM NUMBER PW0924

DESCRIPTION

The Hydraulic Power Unit PW0924 is a portable control and power package that operates the skimmer assembly. The power unit consists of a diesel engine that drives a triple hydraulic pump, a hydraulic reservoir, and a fuel tank. The unit is furnished with a sound dampening housing. A hydraulic starting system is employed so that the unit can be operated without an outside power source. An engine-driven air compressor and storage tank are provided to inflate the flotation cells on the skimmer assembly. The hydraulic control console on the hydraulic power unit contains controls and indicators necessary to operate the engine and remote skimmer assembly systems. Selector valves and auxiliary hydraulic supply and return ports are furnished so that auxiliary equipment can be powered by the hydraulic power unit.

SPECIFICATIONS

Manufacturer Marine Construction and Design Co.

Model Class XI
Filter belt 36 in. wide

Induction pump (2) hydraulically driven propeller-type Offload pump Destroil Model DS210 (rated at 20 tons/hr)

Power unit (engine)

Manufacturer Detroit Diesel

Mode4-53Horsepower85 hpStarterHydraulicAir compressor12 scfm

Hydraulic oil tank 100-gal. capacity

Boom, Goodyear 12-24 55 ft long Fuel Diesel

Fuel oil tank 31-gal. capacity

Fuel consumption 3 gph

POWER UNIT, DSL/HYD, CLASS XI (CONTD)

ESSM NUMBER PW0924

PHYSICAL CHARACTERISTICS

	Shipping	<u>Operating</u>
Length	12 ft, 3 in.	12 ft, 3 in.
Width	4 ft, 9 in.	4 ft, 9 in.
Height	5 ft, 0 in.	7 ft, 3 in.
Cube	291 cu ft	422 cu ft
Weight	6160 lb	6160 lb

REFERENCES

1. NAVSEA Class XI-A and Class XI-B Oil Recovery Systems, T9593-AR-OMP-010/09608.

Downloaded from http://www.everyspec.com



16' Polyester Roundslings SL0012 (4 per van)

ROUNDSLING, POLYESTER, 16'

ESSM NUMBER SL0012

DESCRIPTION

The 16' Polyester Roundsling SL0012 is an endless synthetic sling made from a skein (continuous loop or hank) of polyester yarn covered by a double-wall tubular jacket. Each sling is supplied with a 1-inch screw pin-type shackle. Four 16' Polyester Roundslings are used for lifting the van to which they are assigned.

Shackle

SPECIFICATIONS

Sling

<u>bining</u>		<u>Shackie</u>	
Manufacturer	Lift-All	Manufacturer	Crosby
Model	EN240	Part number	G-209-A
Vertical SWL	21,200 lb	Size	1 in.
Choker SWL	17,000 lb	Working load limit	25,000 lb
Basket SWL	42,400 lb		
Overall length	16 ft, 0 in.		

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length (operating)	16 ft, 0 in.
Cube (coiled for shipping)	4 cu ft
Weight	18 lb

REFERENCES

1. Lift-All 1998 Catalog.



Class XI Skimmer System Tool Box TL0018

TOOL BOX, CLASS XI SKIMMER SYSTEM

ESSM NUMBER TL0018

DESCRIPTION

The Class XI Skimmer System Tool Box TL0018 is a basic mechanic's tool set that contains 3/8" and 1/2" drive standard sockets and accessories, a standard combination wrench set, adjustable wrenches, pliers, hammers, Phillips and standard screwdrivers, a hex key set, and other miscellaneous tools. It contains the necessary tools to set up and perform basic repairs on the Class XI Skimmer System.

SPECIFICATIONS

Manufacturer ESSM Facility

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length 1 ft, 10 in.
Width 11 in.
Height 10 in.
Cube 2 cu ft
Weight 76 lb

REFERENCES

None



40' Knuckle Boom Portable Hydraulic Crane CR0040

CRANE, 8-TON PORTABLE, HYDRAULIC, 40' KNUCKLE BOOM

ESSM NUMBER CR0040

DESCRIPTION

The 8-ton, 40-foot Portable Knuckle Boom Crane CR0040 is a crane that can be extended manually and hydraulically from a minimum of 13 feet, 5 inches up to 40 feet. The crane is hydraulically operated by a separate hydraulic power unit and is controlled by a five-section hydraulic control valve. The crane consists of a base, a mast, an inner boom, an outer boom, an extension boom, a winch, and the controls and hydraulic components necessary for operation.

SPECIFICATIONS

Manufacturer Iowa Mold Tooling Co. Inc.

Maximum lift 16,500 lb Model 18040

Crane boom length 13 ft, 5 in. up to 40 ft

Rotating mechanism 360° Outer boom swing 126° arc

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length	8 ft, 6 in.
Width	5 ft, 8 in.
Height	8 ft, 7 in.
Cube	413 cu ft
Weight	10,830 lb

REFERENCES

1. NAVSEA Hydraulic Crane, Model 18040, S9597-AD-OMP-010/54209.



Rigging Box for CR0040 Crane, CR0041

RIGGING BOX FOR CR0040

ESSM NUMBER CR0041

DESCRIPTION

The Rigging Box for CR0040 contains the equipment necessary to set up, operate, and maintain the 8-Ton Portable Hydraulic Crane CR0040.

SPECIFICATIONS

Manufacturer ESSM Facility

<u>Item</u>	ESSM Number	<u>Qty</u>
Rigging Box for CR0040, 62" x 34" x 39":	CR0041	1
Block, Head, 1/2" Wire Rope	BK0036	1
Block, Snatch, 1/2" Wire Rope, 8-Ton	BK0037	1
Hook, Safety, 1 3/4", 4.5-Ton	HK0004	1
Hook, Safety, 2", 5-Ton	HK0005	1
Hook, Safety, 2 1/2", 9-Ton HK0007		1
Hook, Safety, 3" 12-Ton	HK0009	1
Tension Meter, Digital, 20k-lb Capacity	SE2108	1
Tool Box for CR0040	TL0021	1
Ammo box #1, 12" x 7" x 8"		1
Ammo box #2, 12" x 7" x 8"		1
Ammo box #3, 12" x 5" x 7		1"
Bolt, 1 1/4" x 4", w/spacer		8
Bolt, 1 1/4" x 6"		4
Box, storage, 12 1/2" x 7 1/2" x 11" (gray)		1
Box, wood, 14" x 14" x 10"		1
Calculator, solar		1
Case, 12" x 10" x 5" (black)		1
Case, storage, 16" x 9" x 3" (orange)		1
Clamp, wire rope combination, 1/2"		4
Crows foot, w/wedge, 46"		1
Extension, 16", 3/4" squared drive		1
Grease gun		1
Grease, multipurpose		1
Hose, hydraulic, -16, 1" x 10'		2
Inventory, laminated		1
Manual, Tech, Hydraulic Crane, Model 18040, NAVSEA S9597.AD-OMP-010		1
Nut, 1 1/4"		4

RIGGING BOX FOR CR0040 (CONTD)

ESSM NUMBER CR0041

Rigging Box for CR0040 Contents (Contd):

<u>Item</u>	ESSM Number	<u>Qty</u>
Plate, steel (dogs)		40
Pry bar, 36"		1
Seal kit, 9C282835		1
Sling, 12', green		2
Sling, 12', red		2
Sling, 12', white		2 2 2 2
Sling, 12', yellow		2
Sling, 6', green		2
Sling, 6', red		2 2
Sling, 6', yellow		
Socket, 12-pt, 1 11/16", 3/4" dr		1
Socket, 12-pt, 1 13/16", 3/4" dr		1
Socket, 12-pt, 1 3/4", 3/4" dr		1
Socket, 12-pt, 1 7/8", 3/4"dr		1
Socket, 12-pt, 2", 3/4" dr		1
Socket, 6-pt, 1 1/16, 3/4" dr		2 2 1
Socket, 6-pt, 1 1/8", 3/4" dr		2
Tape, duct, 2"		
Tape, measuring, steel, 100'		1
Tape, measuring, steel, 12'		1
Wedge socket assembly, 1/2"-5/8"		2
Wedges, steel		40
Wrench, pneumatic, 3/4", square dr		1
Wrench, pneumatic, w/socket set, 1/2" dr		1
Wrench, torque, 3/4", sq dr, 0-600-ft lb		1

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length	5 ft, 2 in.
Width	2 ft, 10 in.
Height	3 ft, 3 in.
Cube	47 cu ft
Weight	1110 lb

REFERENCES

None

7-204X Change E

Downloaded from http://www.everyspec.com



Digital Tension Meter SE2108



Digital Tension Meter SE2108

TENSION METER, DIGITAL, 20K-POUND CAPACITY

ESSM NUMBER SE2108

DESCRIPTION

The 20k-Pound Digital Tension Meter SE2108 is a high quality dynamometer with dual range capacity of 2000 pounds and 20,000 pounds. Dual range capacity permits flexibility to use one instrument for multiple tasks in measuring light and heavy loads. The tension meter is equipped with a 1 1/2-in. x 3 1/2-in. liquid crystal display.

SPECIFICATIONS

Manufacturer Emery Winslow Scale Company

Model Dynabar 1010

Accuracy 0.2% F.S. @ 2000 lb

0.2% F.S. @ 20,000 lb

Display Liquid crystal

Battery Rechargeable, 4-hour charge for 40 hours

PHYSICAL CHARACTERISTICS

Length 1 ft, 4 in.
Width 1 ft, 2 in.
Height 7 in.
Cube 1 cu ft
Weight 22 lb

REFERENCES

None



Tool Box for CR0040 Crane, TL0021

TOOL BOX FOR CR0040

ESSM NUMBER TL0021

DESCRIPTION

The Tool Box for CR0040 Crane, TL0021 is a basic mechanic's tool set that contains 1/2" drive standard sockets and accessories, a standard combination wrench set, adjustable wrenches, pliers, hammers, Phillips and standard screwdrivers, a hex key set, and other miscellaneous tools. It contains the necessary tools to set up and perform basic repairs on the 8-ton, 40-foot Portable Knuckle Boom Crane CR0040.

SPECIFICATIONS

Manufacturer ESSM Facility

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length 1 ft, 9 in.
Width 9 in.
Height 7 in.
Cube 1 cu ft
Weight 46 lb

REFERENCES

None



High Speed Current Buster Skimmer System Van VA0935 (Interior)



High Speed Current Buster Skimmer System Van VA0935

VAN, SKIMMER, HIGH SPEED CURRENT BUSTER

ESSM NUMBER VA0935

The High Speed Current Buster Skimmer System Van VA0935 is a storage/shipping container for the following components of the High Speed Current Buster Skimming System: four lifting slings; two sections of USS-26 oil containment boom for containing and controlling spilled oil; a two-cycle gas-powered blower for inflating the USS-26 boom, a portable outrigger system to support the leading end of an outboard boom leg; three types of in-water oil recovery units; two hydraulic power units to power the oil recovery units; a 2" peristaltic pump used to operate the 2" skim-pak; two machinery containment pools; a hydraulic hose storage reel that is used to store the boom and the high speed current buster; a pressure washer for cleaning system equipment; a tool box with tools for assembly and maintenance of the system; and the ancillary equipment necessary to operate and maintain the skimmer system in the field.

SPECIFICATIONS

Manufacturer ESSM Facility

PHYSICAL CHARACTERISTICS

Operating/Shipping

 Length
 20 ft, 0 in.

 Width
 8 ft, 0 in.

 Height
 8 ft, 0 in.

 Cube
 1280 cu ft

 Weight
 19,800 lb

REFERENCES

None



Two-Cycle Gas-Powered Portable Blower BL0025

BLOWER, PORTABLE, GAS POWERED, 2-CYCLED

ESSM NUMBER BL0025

DESCRIPTION

The Two-Cycle Gas-Powered Portable Blower BL0025 is a quiet, lightweight blower with a 59cc (3.6 cu m.) engine. It has a maximum airspeed of 190 mph, and a maximum air volume at tube of 530 cfm. The blower includes a durable padded harness. It is used for the inflation of the USS-26 oil containment boom.

SPECIFICATIONS

Manufacturer	Husqvarna
Model	165BT
Cylinder displacement	3.6 cu in.
Horsepower	3.2
Maximum power rpm	7800
Maximum engine rpm	7800
Fuel tank volume	4.6 US pints
Air volume @ housing	680 cfm

Air volume @ housing 680 cfm Air volume @ tube 530 cfm Maximum air velocity 190 mph

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length	2 ft
Width	18 in.
Height	22 in.
Cube	5.5cu ft
Weight	32 lb

REFERENCES

1. Husqvarna Blower Manual.



5' x 5' x 12" Machinery Containment Pool CP3000

CONTAINMENT POOL, MACHINERY, 5' x 5' x 12"

ESSM NUMBER CP3000

DESCRIPTION

The Machinery Containment Pool CP3000 is a 5' x 5' x 12" urethane berm. It is used to catch and contain any oil, fuel, or contaminants leaking or spilled from the HPU, pump, or other equipment.

SPECIFICATIONS

Manufacturer Basic Concepts
Fabric material Cooley Urethane

PHYSICAL CHARACTERISTICS

	Shipping	<u>Operating</u>
Length	1 ft, 8 in.	5 ft, 0 in.
Width	1 ft, 8 in.	5 ft, 0 in.
Height	6 in.	1 ft, 0 in.
Cube	1.5 cu ft	25 cu ft
Weight	34 lb	34 lb

REFERENCES

None



10' x 6' x 12" Machinery Containment Pool CP3010

CONTAINMENT POOL, MACHINERY, 10' X 6' X 12"

ESSM NUMBER CP3010

DESCRIPTION

The Machinery Containment Pool CP3010 is a 10' x 6' x 12" urethane berm. It is used to catch and contain any oil, fuel, or contaminants leaking or spilled from the equipment.

SPECIFICATIONS

Manufacturer Basic Concepts
Fabric material Cooley Urethane

PHYSICAL CHARACTERISTICS

	<u>Operating</u>	Shipping
Length	10 ft, 0 in.	1 ft, 8 in.
Width	6 ft, 0 in.	1 ft, 8 in.
Height	1 ft, 0 in.	6 in.
Cube	60 cu ft	1.5 cu ft.
Weight	56 lb	34 lb

REFERENCES

None



VOSS Outrigger Assembly OA0010



VOSS Outrigger Assembly OA0010 (Deployed)

OUTRIGGER ASSEMBLY, VOSS

ESSM NUMBER OA0010

DESCRIPTION

The VOSS Outrigger Assembly OA0010 is designed to meet the rigorous requirements for a boom that is light in weight, high in strength, and easily deployed. The outrigger arm assembly consists of three truss sections with flanged ends, an outboard float with mounting flange, a universal assembly with mounting bolt flange, and a pad eye plate for attachment of rigging to the outboard end of the arm. Each truss section has welded end plates with a symmetrical bolt pattern for a strong connection and easy alignment. The outrigger sections are completely interchangeable. The outrigger assembly can be assembled from two sections to form a 28-foot wide sweep or from three sections to form a 42-foot sweep. The outrigger arm length must be determined based on the limitations of the available vessel and expected skimming conditions. The design working compressive strength of the 42-foot outrigger arm is 8000 lb and is substantially higher for the 28-foot arm.

SPECIFICATIONS

Each outrigger assembly is shipped in six pieces:

3 truss sections with flanged end connections (60 lb)

Outboard float with mounting flange (8 lb)

Universal joint (U-joint) assembly with mounting flange (15 lb)

Pad eye plate (for attachment of rigging to the outboard end of the arm) with mounting bolt pattern (3 lb)

PHYSICAL CHARACTERISTICS

	Per section
Length	14 ft, 6 in.
Width	14 in.
Height	14 in.
Cube	20 cu ft
Weight	60 lb

REFERENCES

1. NAVSEA Drawing Class XI Outrigger Arm (VOSS), Dwg # 6777303.



2-Inch Peristaltic Pump PU0300

PUMP, PERISTALTIC, 2", DIESEL

ESSM NUMBER PU0300

DESCRIPTION

The 2-Inch Peristaltic Pump PU0300 is a self-priming, diesel driven, hose-type pump designed to pump a wide variety of viscous materials. The 2-inch pump will pump at a rate of 110 gpm with an open discharge. Maximum practical suction lift is 29 feet above the material surface.

The 2-inch pump is powered by a 1-cylinder, 5.5 hp, air-cooled, 4-cycle engine. The engine has a recoil starter and direct fuel injection with a variable speed control and is designed to operate from its own integral fuel system.

SPECIFICATIONS

Pump Assembly		<u>Engine</u>	
Manufacturer Model	Master Pump Engine Co. MD-5	Manufacturer Model	Yanmar Diesel L60AE-D
Type	Series M, hose-type	Bore/stroke	75mm/62mm
Capacity	110 gpm/open discharge	Displacement	273 сс
Effective daily		Rpm	3600
recovery rate	Mod 2400 - 226 bbls	Horsepower	5.5
(24-hr)	Mod 4200 - 459 bbls	Fuel	Diesel
		Fuel source	Integral fuel tank
		Fuel consumption	.5 gph

PHYSICAL CHARACTERISTICS

	Operating/Shipping
Length	2 ft, 9 in.
Width	2 ft, 1 in.
Height	2 ft, 1 in.
Cube	12 cu ft
Weight	192 lb

REFERENCES

- 1. Yanmar Service Manual for Model L-A Series Engine.
- 2. Yanmar Operations Manual for L-A Series Engine.
- 3. Yanmar Diesel Engine Parts Catalog, Pub. No. 00Y00R3981.
- 4. Pamphlet for Series M Peristaltic Pumps.



Hydraulic Power Unit PW0050

POWER UNIT, HYDRAULIC, MODEL HT50DQV, 25 GPM @ 3000 PSI

ESSM NUMBER PW0050

DESCRIPTION

The Hydraulic Power Unit PW0050 is a sound-attenuated unit designed to be used in areas where low sound levels are required. The HPU is a portable, diesel driven unit that provides hydraulic flow through a hydraulic circuit controlled by a manually operated hydraulic pressure switch. The total hydraulic output is 25 gpm at a pressure of 3000 psi.

The HPU is skid-mounted with forklift slots and enclosed in a protective frame with two lifting points. Hydraulic connections utilize 1-inch Aeroquip 5600 series quick disconnect fittings (one male for supply and one female for return).

SPECIFICATIONS

Hydraulic Power Unit

Manufacturer	Hydra-Tech Pumps
Model	HT50DQV

<u>Engine</u>		<u>Pump</u>	
Manufacturer	John Deere	Manufacturer	Rex Roth
Model	3024T	Model	Pressure compensated
Type	4-cycle	Maximum output	25 gpm @ 3000 psi
No. of cylinders	In-line 4 cylinders	Hydraulic fluid	Rando 46
Horsepower	60 @ 2800 rpm	Hydraulic reservoir	
Starting	Electric	capacity	30 gallons
Fuel	Diesel	Hose port size:	_
Fuel source	75-gal internal tank	Supply	1" NPT
Fuel consumption	2.5 gal./hr	Return	1" NPT
•	-	Case drain	1/2" NPT

POWER UNIT, HYDRAULIC, MODEL HT50DQV, 25 GPM @ 3000 PSI (CONTD)

ESSM NUMBER PW0050

PHYSICAL CHARACTERISTICS

Operat	ing/Sl	nip	pin	g

Length	6 ft, 6 in.
Width	3 ft, 1 in.
Height	5 ft, 7 in.
Cube	112 cu ft
Weight	2690 lb

REFERENCES

1. Hydra-Tech Pumps Maintenance and Parts List for Power Unit Model HT50DQV.

Downloaded from http://www.everyspec.com



Power Pack PW0055

POWER PACK, MODEL LPP 6HA/C75

ESSM NUMBER PW0055

DESCRIPTION

The Power Pack PW0055 is a compact multipurpose hydraulic power unit, coupled to a powerful transfer pump. Power is provided by a single cylinder air-cooled diesel engine generating 5kW. The Power Pack is equipped with electric start as standard, with manual start as backup. The Power Pack consists of one hydraulic circuit capable of pumping 1 gpm @ 2175 psi; hydraulic flow is controlled by a valve located on the hydraulic pump body. The standard hydraulic connections used are TEMA quick release couplings. The integral pump is a self-priming double diaphragm pump with a maximum capacity of 30m³/hr through a 3-inch inlet and discharge camlock couplings. The pump is protected by a suction strainer and can handle solids up to 6mm in size. All seals are constructed from synthetic rubber for protection against all oils encountered. The LPP 6HA/C75 is mounted on a tough and portable, steel 2- wheeled site chassis with collapsible handle allowing for easy deployment. In addition to powering the smaller capacity skimmers, the power pack is used to power the Minimax12 Skimmer for the recovery of oil of varying viscosities.

SPECIFICATIONS

Manufacturer	Lamor
--------------	-------

Model LPP 6HA/C75

<u>Engine</u> <u>Pump</u>

ManufacturerHatzManufacturerSpateModel1B30Model75C

Type 4-cycle Capacity 7000 gal./hr No. of cylinders 1 Self-priming lift 29 ft H_2O Horsepower 8 @ 3600 rpm Hose connections 3" camlock

Starting Electric Fuel Diesel

Fuel source 1.5-gal. internal tank

Fuel consumption .5 gal./hr

POWER PACK, MODEL LPP 6HA/C75 (CONTD)

ESSM NUMBER PW0055

PHYSICAL CHARACTERISTICS

Length	3 ft, 7 in.
Width	3 ft, 4 in.
Height	2 ft, 8 in.
Cube	32 cu ft
Weight	62 lb

REFERENCES

1. Lamor Owner's Manual for Power Pack LPP 6.

Downloaded from http://www.everyspec.com



High Speed Current Buster Reel RL0051



High Speed Current Buster Reel RL0051 (With NOFI Skimmer and USS-26 Boom)

REEL, SKIMMER, HIGH SPEED CURRENT BUSTER

ESSM NUMBER RL0051

DESCRIPTION

The High Speed Current Buster Skimmer Reel RL0051 is skid-mounted and hydraulically powered. The reel can store up to ten 6" x 100" sections of floating hose, and is powered by a Mod 8 Hydraulic Power Unit (PU0200B), which is not a part of this system and must be obtained from a separate source.

SPECIFICATIONS

Manufacturer Cavotec Model HC3

PHYSICAL CHARACTERISTICS

Operating/Shipping

 Length
 7 ft, 5 in.

 Width
 6 ft, 4 in.

 Height
 6 ft, 7 in.

 Cube
 309 cu ft

Weight 4800 lb (with NOFI Skimmer)

REFERENCES

None



Oil Containment Boom BM0760

BOOM, OIL CONTAINMENT MODEL USS-26, 26" x 55'

ESSM NUMBER BM0760

DESCRIPTION

The Oil Containment Boom BM0760 is an inflatable, rubberized, all-nylon construction boom that resists abrasions, gouging, oil, and salt water. The standard section has inflation chambers with an inflation/deflation valve. There is a piece of rubberized fabric that separates adjoining chambers and provides flexibility for the boom. Each inflation section is completely vulcanized with no stitched seams that can pull apart.

SPECIFICATIONS

Manufacturer	Engineered Fabrics
Model	USS-26
Inflation pressure	2 psig
Test pressure	4 psig
Weight per foot	4 1/2 lb

Chimmina

PHYSICAL CHARACTERISTICS

	Snipping
Length	3 ft, 0 in.
Width	3 ft, 0 in.
Height	1 ft, 9 in.
Cube	15 cu ft
Weight	248 lb

REFERENCES

None



High Speed Current Buster Skimmer SK0050

SKIMMER, HIGH SPEED CURRENT BUSTER

ESSM NUMBER SK0050

DESCRIPTION

The High Speed Current Buster Skimmer SK0050 is capable of containing and collecting oil at towing speeds (or currents) up to 4 knots. It is capable of recovering oil with dramatically increased skimming efficiency due to low oil layer turbulence in the separator at the end of the system. The High Speed Current Buster Skimmer, in addition to containing oil at high towing speeds or currents, also separates the oil from the water and positively "controls" the oil for uncomplicated and highly efficient oil recovery. This skimmer is well suited for fast running rivers and in narrow, high current straits.

The High Speed Current Buster Skimmer consists of a front sweep (standard opening 65 ft.) for guiding oil product into the combined collector/skimming device and then into the separator tank (holding capacity approx. 7,925 gallons), where the oil is recovered by a simple pump or a skimmer.

SPECIFICATIONS

Transverse bladders

Manufacturer	NOFI
Model	Current Buster 600
Inflation pressure	2 psig
Draft	18"
Freeboard	24"
Overall height inflated	42
Mooring/lifting points	19
Flotation chambers	18
Air inflated stiffeners	4
Air valves per chamber	1
Materials:	
Buoyancy chambers	PU/PVC-coated polyester

Storage/operating temperatures -13° to 150° F

PU/PVC-coated polyester

SKIMMER, HIGH SPEED CURRENT BUSTER (CONTD)

ESSM NUMBER SK0050

PHYSICAL CHARACTERISTICS

Shipping (on Storage Reel RL0051)*

Length 7 ft, 5 in.
Width 6 ft, 4 in.
Height 6 ft, 7 in.
Cube 309
Weight 3000 lb
Weight (Skimmer only) 750 lb

REFERENCES

1. User Documentation for NOFI Current Buster 600.

^{*}The High Speed Current Buster is shipped on the High Speed Current Buster Storage Reel RL0051. Dimensions given are for combined shipping configuration.

Downloaded from http://www.everyspec.com



Minimax 12 Skimmer SK0055

SKIMMER, MINIMAX 12

ESSM NUMBER SK0055

DESCRIPTION

The Minimax 12 Skimmer SK0055 is an efficient, free-floating brush wheel-type skimmer. It is lightweight, portable, and is designed to recover oil of all types from shorelines, harbors, estuaries, rivers and lakes. The Minimax 12 Skimmer is hydraulically operated and offloaded by suction pump. The small and lightweight Minimax 12 can be easily carried and deployed by one person and can recover any floating oils that remain fluid.

The Minimax 12 Skimmer consists of a floating skimmer head incorporating two brush wheel units side by side with a diameter of only 9.8 inches. The brush wheels rotate "with the flow," forcing the oil under the water. As oil tends to rise to the surface, it sticks to the oleophilic brushes. The brush wheels consist of hundreds of thousands of bristles, giving a large surface area for the oil to stick to. As the brush wheels rotate, water flows off the brushes through a channel and out of the skimmer head. Collected oil is scraped off into the oil collection hopper and pumped to a recovery tank.

SPECIFICATIONS

<u>Skimmer</u> <u>Hydraulic Motor</u>

Manufacturer	Lamor	Manufacturer	Danfoss
Model	Minimax 12	Model	OMM 32
Brush disc:		Maximum hydraulic flow	.47 gallon
Quantity	6	Hydraulic pressure	1450 psi
Diameter	9.8 in.		
Capacity per 24hr/day	362 bbls		

PHYSICAL CHARACTERISTICS

	Operating/Shipping
Length	3 ft, 7 in.
Width	3 ft, 4 in.
Height	2 ft, 8 in.
Cube	32 cu ft
Weight	62 lb

REFERENCES

1. Lamor Minimax 12 Owner's Manual.



LWS-50 Weir Skimmer SK0056



LWS-50 Weir Skimmer SK0056 (Operating)

SKIMMER, WEIR, LWS-50

ESSM NUMBER SK0056

DESCRIPTION

The LWS-50 Weir Skimmer SK0056 is a free-floating weir with high buoyancy-to-weight ratio and low inertial mass. This gives it excellent sea-keeping characteristics and the ability to follow choppy waves. The self-adjusting Weir Skimmer gives the operator precise control of the skimming process in all operating conditions. The unit is also simple to operate, and require little operator training.

The hopper and float arms are manufactured using seawater-resistant aluminum. Floats and weir lip are constructed of polyethylene, and the flexible bellows are made of neoprene rubber. The transfer pump is accessible for easy inspection and maintenance without removal from the skimmer. Debris is handled by cutting knives at the pump inlet. The pump can quickly be detached from the weir skimmer for use in any oil transfer operation. The skimmer has a center lifting yoke as well as a lifting eye on each pontoon leg.

SPECIFICATIONS

Manufacturer Lamor Model LWS-50

<u>Weir</u> <u>Pump</u>

Manufacturer Lamor Manufacturer Lamor LWS-50 GT A 50 Model Model Entrance diameter Approximately 25" Discharge coupling 3" camlock 16" Capacity per 24 hr/day 1509 bbls Draft

Motor

Manufacturer Danfoss Model OMTS 160

Max. hydraulic flow 35 gpm @ 3500 psi

Max return pressure 290 psi

Hydraulic couplings:

Pressure Tema 3/4" female Return Tema 3/4" male

SKIMMER, WEIR, LWS-50 (CONTD)

ESSM NUMBER SK0056

PHYSICAL CHARACTERISTICS

Length	3 ft, 6 in.
Width	3 ft, 1 in.
Height	1 ft, 6 in.
Cube	16 cu ft
Weight	190 lb

REFERENCES

1. Lamor Weir Skimmer Owner's Manual.

Downloaded from http://www.everyspec.com



2" Skim-Pak SK0620

SKIM-PAK, 2", 466 BBLS/24 HR DAY

ESSM NUMBER SK0620

DESCRIPTION

The 466 Bbls/24 hr Day, 2" Skim-Pak SK0620 is a complete emergency response system ready for rapid deployment. The unit includes a separator, hose, and control wand. The Skim-Pak unit is designed to be used as a general purpose skimmer for oil recovery on lakes, harbors, rivers, streams, and calm water applications.

SPECIFICATIONS

Manufacturer Douglas Engineering

Series 4000 Model 4200

Flow 5 to 68 gpm Max. recovery rate 466 bbls/24 hr day

Size 2 in. Draft 5 in.

Draft 5 in. Weir width 1 ft

Type Flow control Material Fiberglass

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length 2 ft, 3 in.
Width 2 ft, 1 in.
Height 11 in.
Cube 5 cu ft
Weight 18 lb

REFERENCES

1. Brochure: "The Skimmer That Really Works".



16' Polyester Roundslings SL0012 (4 per van)

ROUNDSLING, POLYESTER, 16'

ESSM NUMBER SL0012

DESCRIPTION

The 16' Polyester Roundsling SL0012 is an endless synthetic sling made from a skein (continuous loop or hank) of polyester yarn covered by a double-wall tubular jacket. Each sling is supplied with a 1-inch screw pin-type shackle. Four 16' Polyester Roundslings are used for lifting the van to which they are assigned.

Shackle

SPECIFICATIONS

Sling

			
Manufacturer	Lift-All	Manufacturer	Crosby
Model	EN240	Part number	G-209-A
Vertical SWL	21,200 lb	Size	1 in.
Choker SWL	17,000 lb	Working load limit	25,000 lb
Basket SWL	42,400 lb	-	

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length (operating)	16 ft, 0 in.
Cube (coiled for shipping)	4 cu ft
Weight	18 lb

REFERENCES

1. Lift-All 1998 Catalog.



High Speed Current Buster Skimmer Tool Box TL0026

TOOL BOX, HIGH SPEED CURRENT BUSTER SKIMMER

ESSM NUMBER TL0026

DESCRIPTION

The High Speed Current Buster Skimmer Tool Box TL0026 is a basic mechanic's tool set that contains 3/8" and 1/2" drive standard sockets and accessories, a standard combination wrench set, adjustable wrenches, pliers, hammers, Phillips and standard screwdrivers, a hex key set, and other miscellaneous tools. It contains the necessary tools to set up and perform basic repairs on the High Speed Current Buster Skimmer.

SPECIFICATIONS

Manufacturer ESSM Facility

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length 1 ft, 10 in.
Width 11 in.
Height 10 in.
Cube 2 cu ft
Weight 76 lb

REFERENCES

None



Hydraulic Pressure Washer WA0700

WASHER, PRESSURE, HYDRAULIC MODEL 4403K0

ESSM NUMBER WA0700

DESCRIPTION

The Hydraulic Pressure Washer WA0700 is a high pressure, cold water cleaner that is used to remove oil and dirt from equipment by spraying high pressure water on it. The pressure washer can use either fresh or salt water as a cleaning medium.

SPECIFICATIONS

Manufacturer	Alto/Kew
Model	4403K0
Max. pump pressure	2610 psig

Water volume:

Maximum 20.5 gal.
Minimum 5.42 gal.
Max. inlet water temp. 150°F
Self-priming max. lift 16 ft

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length 2 ft, 2 in.
Width 1 ft, 1 in.
Height 1 ft, 10 in.
Cube 5 cu ft
Weight 84 lb

REFERENCES

1. Owner's Manual for Kew Hydraulic Pressure Washer, Model 4403K0.

Downloaded from http://www.everyspec.com

ARCTIC OIL RECOVERY SYSTEM P16500



Arctic Oil Recovery System Van VA1650 (Van 1 of 2)



Bobcat Loader VE0040



80" Bucket VE0042



12" Bit VE0043



Drive Unit VE0044



Backhoe VE0045



Breaker VE0046



Pallet Forks VE0047



Planer VE0048



Trencher VE0049



Track Package VE0050



Slings SL0012



Tool Box TL0016

System Overview of Arctic Oil Recovery System Van VA1650 (1 of 2)



Arctic Oil Recovery System Van VA1651 (2 of 2)



Containment Pool C03000



Containment Pool C03010



Portable Crane CR0015



Chain Saw CS0010



Hyd Power Unit PW0051



Power Pack PW0056



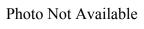
Lori Mini Skimmer SK0020



Belt Skimmer SK0030



DOP-160 Pump PU0840



Ancillary Set SK0032



Seamop Skimmer SK0970



Spare Parts Kit SK0971



Ro-Vac Skimmer SK0980



16' Roundslings SL0012



Tool Box TL0027

System Overview of Arctic Oil Recovery System Van VA1651 (2 of 2)

Downloaded from http://www.everyspec.com

ARCTIC OIL RECOVERY SYSTEM

SYSTEM NUMBER P16500

SYSTEM DESCRIPTION

The Arctic Oil Recovery System P16500 consists of two storage/shipping containers which provide a means of storage and shipping for the components of the Arctic Oil Recovery System. This system is designed to recover oil in an active environment where specific weather conditions render normal skimmer recovery methods useless.

The ancillary items for the Bobcat are shown on the system overview page, but are do not appear in the catalog. All the ancillary items are located and shipped in The Arctic Oil Recovery System Van (Van 1 of 2).

SYSTEM COMPONENTS

ESSM Number	<u>Qty</u>
VA1650	1
HE0501 (Not Shown)	1
SL0012	4
TL0016	1
VE0040	1
VE0041 (Altn)	1
VE0042 (Not Shown)	1
VE0043 (Not Shown)	1
VE0044 (Not Shown)	1
VE0045 (Not Shown)	1
VE0046 (Not Shown)	1
VE0047 (Not Shown)	1
VE0048 (Not Shown)	1
VE0049 (Not Shown)	1
VE0050 (Not Shown)	1
VE0051 (Not Shown)	1
VE0052 (Not Shown)	1
	VA1650 HE0501 (Not Shown) SL0012 TL0016 VE0040 VE0041 (Altn) VE0042 (Not Shown) VE0043 (Not Shown) VE0044 (Not Shown) VE0045 (Not Shown) VE0046 (Not Shown) VE0047 (Not Shown) VE0048 (Not Shown) VE0049 (Not Shown) VE0050 (Not Shown) VE0050 (Not Shown)

ARCTIC OIL RECOVERY SYSTEM

SYSTEM NUMBER P16500

SYSTEM COMPONENTS (Contd)

<u>Item</u>	ESSM Number	<u>Qty</u>
2. Van, Arctic Oil Recovery System (Van 2 of 2)	VA1651	1
Containment Pool, Machinery, 5' x 5' x 12"	CP3000	2
Containment Pool, Machinery, 10' x 6' x 12"	CP3010	2
Crane, Portable Marine, Model 705TM-3S	CR0015	1
Chain Saw, 36"	CS0010	1
Power Unit, Hydraulic, Model HT30DQV, 15 Gpm @ 3000 Psi	PW0051	1
Power Pack, Model LPP 7HA/75C PW0056	PW0056	1
Skimmer, Mini, Lori	SK0020	1
Skimmer, Moving Inclined Belt	SK0030	1
Pump, DOP-160	PU0840	1
Ancillary Kit for SK0030	SK0032	1
Skimmer, Seamop 3060	SK0970	1
Spare Parts Kit For Seamop 3060 Skimmer	SK0971	1
Skimmer, Ro-Vac MK II	SK0980	1
Roundsling, Polyester, 16'	SL0012	4
Tool Box, Arctic Oil Recovery System Van (VA1651)	TL0027	1

Downloaded from http://www.everyspec.com



Arctic Oil Recovery System Van VA1650 (Van 1 of 2)

VAN, ARCTIC OIL RECOVERY SYSTEM (1 OF 2)

ESSM NUMBER VA1650

DESCRIPTION

The Arctic Oil Recovery System Van VA1650 (Van 1 of 2) is used as a storage/shipping container for the components of and ancillary items associated with the Bobcat Loader Vehicle. The following components are stored and shipped in the Arctic Oil Recovery System Van VA1650: a heater pipe, four 16' polyester roundslings, a tool box, and a Bobcat loader vehicle. The van also contains the following accessories for the Bobcat loader vehicle: an 80-inch front loader bucket, a 12-inch auger bit, an auger drive unit, a backhoe, a hydraulic breaker, a set of 48-inch pallet forks, an 18-inch planer, a trencher, and two pallets for shipping the Bobcat loader ancillaries.

SPECIFICATIONS

Manufacturer ESSM Facility

PHYSICAL CHARACTERISTICS

	Shipping
Length	20 ft
Width	8 ft
Height	8 ft
Cube	1280 cu ft
Weight	23,360 lb

REFERENCES

1. Arctic Oil Recovery System Van #1 Structural Modifications and Outfitting, NAVSEA Dwg. 7022801.



16' Polyester Roundslings SL0012 (4 per van)

ROUNDSLING, POLYESTER, 16'

ESSM NUMBER SL0012

DESCRIPTION

The 16' Polyester Roundsling SL0012 is an endless synthetic sling made from a skein (continuous loop or hank) of polyester yarn covered by a double-wall tubular jacket. Each sling is supplied with a 1-inch screw pin-type shackle. Four 16' Polyester Roundslings are used for lifting the van to which they are assigned.

SPECIFICATIONS

Sling		Shackle	
Manufacturer	Lift-All	Manufacturer	Crosby
Model	EN240	Part number	G-209-A
Vertical SWL	21,200 lb	Size	1 in.
Choker SWL	17,000 lb	Working load limit	25,000 lb
Basket SWL	42,400 lb	_	
Overall length	16 ft, 0 in.		

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length (operating)	16 ft, 0 in.
Cube (coiled for shipping)	4 cu ft
Weight	18 lb

REFERENCES

1. Lift-All 1998 Catalog.



Arctic Oil Recovery System Van Tool Box TL0016

TOOL BOX, ARCTIC OIL RECOVERY SYSTEM VAN

TL0016

DESCRIPTION

The Arctic Oil Recovery System Van Tool Box TL0016 is a basic mechanic's tool set that contains 1/2-inch and 3/8-inch-drive deep well and standard socket sets, 1/2-inch and 3/8-inch-drive metric socket sets, combination and metric wrench sets, adjustable wrenches, pipe wrenches, pliers, hammers and other miscellaneous tools and accessories. It contains the necessary tools to set up and perform basic repairs on the Arctic Oil Recovery System.

SPECIFICATIONS

Manufacturer ESSM Facility

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length	1 ft, 10 in.
Width	10 in.
Height	10 in.
Cube	2 cu ft
Weight	102 lb

REFERENCES

None



Bobcat Loader Vehicle, Model 863 VE0040

VEHICLE, LOADER, MODEL 863 BOBCAT

ESSM NUMBER VE0040

DESCRIPTION

The Bobcat Loader Vehicle, Model 863 VE0040 is equipped to handle just about any terrain, whether clearing a path through thick underbrush or plowing through densely packed earth. It can perform multiple jobs, and operate in soft, wet, muddy, snowy or sandy environments. The Bobcat Loader Vehicle comes with a variety of attachments: an 80-inch Bucket VE0042, 12-inch Bit VE0043, Auger Drive Unit VE0044, Backhoe VE0045, Hydraulic Breaker VE0046, 48-inch Pallet Forks VE0047, 18-inch Planer VE0048, Trencher VE0049, and Track Package VE0050.

SPECIFICATIONS

Vehicle

Manufacturer Melroe/Ingersoll-Rand

Model863Rated operating capacity1900 lbTipping load (SAE rating)3800 lbTravel speed0-7.2 mph

Fuel:

Type Diesel Capacity 25 gallons

Tires:

Size 12-16.5, 10-ply rating

Inflation pressure Maximum pressure shown on sidewall

Engine Hydraulic System

Manufacturer	Deutz	Pump	Engine driven, gear-type
Model	BF4M1011 Turbo-Charged	Flow rate	18 gpm @ 2750 rpm
Horsepower	73.5 hp	Relief at QDs	3000 psi
Maximum torque	164 ft-lbs	Filters	Full flow replicable, 3-
Maximum rpm	2600		micron synthetic media
Cylinders	4	Hydraulic lines	SAE standard tubes,
Bore/stroke	3.58/4.13		hoses, and fittings
Displacement	167 cu in.	Capacity	14 gallons
Starter	12-volt, direct drive, 4 hp	Hyd fluid type	10W-40 (temps above 0°)
			5W-30 (temps below 0°)

VEHICLE, LOADER, MODEL 863 BOBCAT

ESSM NUMBER VE0040

PHYSICAL CHARACTERISTICS

Operating/Shipping (vehicle only)

 Length
 8 ft, 11 in.

 Width
 6 ft, 1 in.

 Height
 6 ft, 10 in.

 Cube
 371 cu ft

Weight 7040 lb (vehicle only)

REFERENCES

- 1. Operation and Maintenance Manual, Bobcat Model 843.
- 2. Operation and Maintenance Manual, Bobcat Model 863.
- 3. Bobcat Operation and Maintenance Manual for LT 203 Trencher.
- 4. Bobcat Operation and Maintenance Manual for 18" Planer.
- 5. Bobcat Operation and Maintenance Manual for 2570 & 3570 Hydraulic Breaker.
- 6. Bobcat Operation and Maintenance Manual for 607 & 709 Backhoe.
- 7. Bobcat Operation and Maintenance Manual for Round Drive & Hex Drive Auger.
- 8. Loegering Owner Manual for Trail Blazers and D Series Tracks.
- 9. EMI Safety Manual for Users and Operators.

Downloaded from http://www.everyspec.com



Arctic Oil Recovery System Van (2 of 2)

VAN, ARCTIC OIL RECOVERY SYSTEM (2 OF 2)

VA1651

DESCRIPTION

The Arctic Oil Recovery System Van VA1651 (2 of 2) is used as a storage/shipping container for the ancillary items associated with the Arctic Oil Recovery System. The following components are stored and shipped in the Arctic Oil Recovery System Van VA1651: two 5' x 5' x 12" and 10' x 6' x 12" machinery containment pools, a model 705TM-3S portable marine crane, a 36-inch chain saw, a Lori mini skimmer, an inclined belt skimmer and ancillary kit, a Seamop skimmer and spare parts kit, a Ro-Vac MK II skimmer, four 16' polyester roundslings, and a tool box for Van 2.

SPECIFICATIONS

Manufacturer ESSM Facility

PHYSICAL CHARACTERISTICS

	Shipping
Length	20 ft
Width	8 ft
Height	8 ft
Cube	1280 cu ft
Weight	TBD

REFERENCES

None



5' x 5' x 12" Machinery Containment Pool CP3000

CONTAINMENT POOL, MACHINERY, 5' x 5' x 12"

ESSM NUMBER CP3000

DESCRIPTION

The Machinery Containment Pool CP3000 is a 5' x 5' x 12" urethane berm. It is used to provide a means of catching and containing any oil, fuel, or contaminants leaking or spilled from the component that it is supporting.

SPECIFICATIONS

Manufacturer Basic Concepts
Fabric material Cooley Urethane

PHYSICAL CHARACTERISTICS

	<u>Operating</u>	Shipping
Length	5 ft, 0 in.	1 ft, 8 in.
Width	5 ft, 0 in.	1 ft, 8 in.
Height	1 ft, 0 in.	6 in.
Cube	25 cu ft	1.5 cu ft
Weight	34 lb	34 lb

REFERENCES

None



10' x 6' x 12" Machinery Containment Pool CP3010

CONTAINMENT POOL, MACHINERY, 10' X 6' X 12"

ESSM NUMBER CP3010

DESCRIPTION

The Machinery Containment Pool CP3010 is a 10' x 6' x 12" urethane berm. It is used to provide a means of catching and containing any oil, fuel, or contaminants leaking or spilled from the operating equipment.

SPECIFICATIONS

Manufacturer Basic Concepts
Fabric material Cooley Urethane

PHYSICAL CHARACTERISTICS

Shipping	
in.	
in.	
ft.	

REFERENCES

None



Portable Marine Crane CR0015

CRANE, PORTABLE MARINE, MODEL 705TM-3S

ESSM NUMBER CR0015

DESCRIPTION

The Portable Marine Crane CR0015 can be extended hydraulically from a minimum of 6 feet, 8 inches to a maximum of 21 feet, 4 inches. The crane is operated by a separate hydraulic power unit and is controlled by a four-function hydraulic control valve. The crane consists of a base, a mast, an inner boom, an outer boom, a winch, and hydraulic components necessary for operation.

SPECIFICATIONS

Crane		Winch	
Manufacturer	Morgan Marine	Manufacturer	Pullmaster Winch
Model	705TM-3S	Model	PL2
Boom length:		Cable drum size:	
Minimum	6 ft, 8 in.	Barrel diameter	6.13 in.
Maximum	21 ft, 4 in.	Barrel length	5.25 in.
Capacity with boom at:		Cable storage wire size:	
4 ft, 3 in.	4180 lb	1/16 in.	318 ft
7 ft, 6 in.	2530 lb	1/8 in.	745 ft
10 ft, 9 in.	1760 lb	5/16 in.	122 ft
13 ft, 11 in.	1210 lb	3/8 in.	84 ft
		Operating pressure:	
		Maximum	2200 psi
		Minimum	700 psi
		Operating volume:	
		Gpm	7.7
		Psi	2.5
		Line pull @ max. pressure:	
		Bare drum	2200 lb
		Full drum	1663 lb
		Line speed @ max. volume:	
		Bare drum	83 fpm
		Full drum	108 fpm
		Maximum pressure at:	•
		Motor return port	65 psi
		Brake safety valve	100 psi

CRANE, PORTABLE MARINE, CAPACITY 1210 LB @ 13', 11"

ESSM NUMBER CR0010

PHYSICAL CHARACTERISTICS

Shipping	
6 ft, 7 in.	
2 ft, 4 in.	
5 ft, 0 in.	
85 cu ft	
952 lb	

REFERENCES

1. Morgan Model 27 Marine Crane Manual.

Downloaded from http://www.everyspec.com



36" Chain Saw CS0010

CHAIN SAW, 36"

ESSM NUMBER CS0010

DESCRIPTION

The 36" Chain Saw CS0010 is designed for heavy duty cutting on rivers and lakes to remove frozen oil product from the ice. The 36" Chain Saw combines high power with low weight. A decompression valve makes starting easier and an IntelliCarbTM helps keep the saw running at full rpm. Additional features include fuel and oil caps with retainers, an ElastostartTM starter handle, an automatic oiler (adjustable), a side access chain tensioner, a carburetor preheat shutter for summer/winter operation, and a heavy duty air filter.

SPECIFICATIONS

Manufacturer	Stihl
Model	MS-660

Engine:

Displacement 5.6 cu in.
Horsepower 7.0 bhp
Fuel capacity 27.9 oz
Chain oil capacity 12.2 oz
Chain guide bar 36"

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length	4 ft, 8 in.
Width	1 ft, 0 in.
Height	1 ft, 0 in.
Cube	5 cu ft
Weight	23 lb

REFERENCES

None



Hydraulic Power Unit PW0051

POWER UNIT, HYDRAULIC, MODEL HT30DQV, 15 GPM @ 3000 PSI

ESSM NUMBER PW0051

DESCRIPTION

The Hydraulic Power Unit PW0051 is a sound-attenuated unit designed to be used in areas where low sound levels are required. The HPU is a portable, diesel driven unit that provides hydraulic flow through a circuit controlled by a manually operated pressure switch. The total hydraulic output is 15 gpm at a pressure of 3000 psi.

The HPU is skid-mounted with forklift slots and enclosed in a protective frame with two lifting points. Hydraulic connections utilize 1-inch Aeroquip 5600 series quick disconnect fittings (one male for supply and one female for return).

SPECIFICATIONS

Hydraulic Power Unit

Manufacturer	Hydra-Tech Pumps
Model	HT30DQV

<u>Engine</u>		<u>Pump</u>	
Manufacturer	Yanmar	Manufacturer	Rex Roth
Model	3TNV88-D	Model	Pressure compensated
Type	3-cycle	Maximum output	15 gpm @ 3000 psi
No. of cylinders	4 in-line	Hydraulic fluid	Rando 46
Horsepower	37.5 @ 3000 rpm	Hydraulic reservoir	
Starting	Electric	capacity	30 gallons
Fuel	Diesel	Hose port size:	_
Fuel source	20-gal. internal tank	Supply	3/4" NPT
Fuel consumption	1.75 gal./hr	Return	3/4" NPT
_		Case drain	3/8" NPT

POWER UNIT, HYDRAULIC, MODEL HT30DQV,15 GPM @ 3000 PSI (CONTD)

ESSM NUMBER PW0051

PHYSICAL CHARACTERISTICS

Opera	ting/S	hip	pin	g
				_

Length	5 ft, 9 in.
Width	2 ft, 8 in.
Height	4 ft, 2 in.
Cube	63 cu ft
Weight	2090 lb

REFERENCES

1. Yanmar Operational Manual for Model 3TNV88-D Engine.

Downloaded from http://www.everyspec.com



Power Pack Model LPP 7HA/75C PW0056

POWER PACK MODEL LPP 7HA/75C

ESSM NUMBER PW0056

DESCRIPTION

The Power Pack Model LPP 7HA/75C PW0056 consists of an air-cooled diesel engine, electric starter, a hydraulic pump, an oil transfer pump, battery, a hydraulic oil tank, and a fuel tank. The power pack is designed to be used as a power source for the mini skimmer, Seamop skimmer, and the inclined belt oil skimmer.

SPECIFICATIONS

Manufacturer	Lamor Corporation
Model	LPP 7HA/75C

Oil Transfer Pump **Engine**

Manufacturer	Hatz	Manufacturer	Selwood Spate
Model	1B40 air-cooled	Model	75 C
Cylinders	1	Capacity	7000 gal./hr.
Max. rpm	3600	Total head	130 ft
Power	7.3 kW	Delivery head	100 ft
Starter	Electric/hand	Self priming lift	$29 \text{ ft H}_2\text{O}$
Battery	12 V, 30Ah	Suction lift	30 ft
Fuel	Diesel	Solids size	0.25 in.
Fuel source	1.32-gal. integral tank	Air handling	$8 \text{ ft}^3/\text{min.}$
		Pump speed	1500 strokes/min.
Hydraulic Pump		Port size	3"

Hydraulic Pump

Manufacturer	Oil System
Max. flow	2.65 gpm
Max. pressure	2175 psi
Hydraulic connectors	-6 OD

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length	3 ft, 1 in.
Width	3 ft, 3 in.
Height	2 ft, 6 in.
Cube	1 cu ft
Weight	360 lb

POWER PACK MODEL LPP 7HA/75C

PW0056

REFERENCES

1. Lamor Owner's Manual for Model LPP 7HA/75C Power Pack.

Downloaded from http://www.everyspec.com





Lori Mini Skimmer SK0020

SKIMMER, MINI, LORI

ESSM NUMBER SK0020

DESCRIPTION

The Lori Mini Skimmer (LMS) SK0020 is a self-contained, free floating, portable skimmer for recovering spilled oil. The LMS is easy to handle and is an ideal unit for most industrial, inshore, and offshore uses. It is easily transported and can be launched from a boat, dock, or shore. It can also be operated from a vessel of opportunity. A surface stream, generated by current and brush drum rotation, draws oil into the brushes. The brush is a drum made of oleophillic material to which the oil adheres very efficiently. The brush drum separates oil and debris from the water and delivers it to the specially made cleaner units where the oil is combed off the brushes. The recovered oil is then pumped off to a suitable storage device.

SPECIFICATIONS

Manufacturer	Lori Products
Model	LMS
Environmental conditions:	
Significant wave height	5 ft
Mininum air temperature	23° F
Minimum water temperature	32° F
Recovery speed (if towed)	1-2 knots
Sweeping width	493 ft
Recovered water	10%
Oil to be recovered	All types and ages
Recovery capacity	3019 bbls/day

PHYSICAL CHARACTERISTICS

	Shipping
Length	2 ft, 11 in.
Width	2 ft, 11 in.
Height	1 ft, 9 in.
Cube	15 cu ft
Weight	66 lb

REFERENCES

1. Lori Mini Skimmer Information Pamphlet.



Moving Inclined Belt Skimmer SK0030

SKIMMER, MOVING INCLINED BELT

ESSM NUMBER SK0030

DESCRIPTION

The Moving Inclined Belt Skimmer SK0030 is a lightweight, economical, and efficient transportable skimming system that consists of an inclined plane belt skimmer, flotation pontoons, hydraulic hoses, a cargo pump and discharge hoses, aluminum "V" sweeps, and a lifting frame.

The Moving Inclined Belt Skimmer is designed to be used in conjunction with small workboats or vessels of opportunity. Hydraulic power requirements are supplied by either the support vessel's hydraulic system or a separate portable power unit. The skimmer is attached to the vessel of opportunity with two mooring lines.

In the stationary mode, in a river or pond, oil containment boom can be attached to the ASTM "C" type slide connectors on the front of the skimmer, which will funnel oil flowing downstream into the skimmer for collection.

For ease of movement and deployment of the skimmer, the unit is outfitted with wheels and removable rear handles. The handles slide into brackets at the rear of the skimmer and are removed for skimming operations.

SPECIFICATIONS

Manufacturer JBF Environmental Technology

Model DIP 400

Oil collection assembly:

Type Dynamic Incline Plane (DIP)
Skimmer belt 12-inch-wide polypropylene

Belt drive Hydraulic motor (Parker 110A-071-AS-S or equivalent)

Debris collection Expanded mesh removable basket

Max. oil recovery rate 5400 bbls/24-hr day

225 bbs/hr 160 gpm 36 m³/hr

Oil storage capacity 1320 gal.

Hull material 5052-H32 aluminum

SKIMMER MOVING INCLINED BELT

SK0030

PHYSICAL CHARACTERISTICS

	Shipping
Length	6 ft, 2 in.
Width	2 ft, 5 in.
Height	3 ft, 8 in.
Cube	55 cu ft
Weight	334 lb

REFERENCES

1. JBF Environmental Technology, Operation and Maintenance Manual.

Downloaded from http://www.everyspec.com

PICTURE NOT AVAILABLE; SHIPPING CONFIGURATION IS UNDER DEVELOPMENT.

ANCILLARY KIT FOR SK0030

ESSM NUMBER SK0032

DESCRIPTION

The Ancillary Kit for SK0030 (SK0032) consists of the necessary equipment to set up and operate the Moving Inclined Belt Skimmer SK0030.

SPECIFICATIONS

Manufacturer ESSM Facility

<u>Item</u>	<u>Qty</u>
Container, Storage (TBD):	1
Bar, pontoon bracket	2
Basket, aluminum	1
Bearing, roller	1
Bearing, roller w/carrier	1
Belt pins	6
Belt section, polypro, 12" wide	1
Boom, 20" x 10'	2
Box, spare prts, plstc, 28" x 21" x 15"	1
Bracket, pontoon	4
Bridle, tow, inboard	1
Cable tie, 14" (bag)	1
Drive coupling, sleeve	1
Fitting, elbow, 90°, 3" camlock	2
Fitting, QD, female, -6	1
Fitting, QD, male, -6	1
Plate, gunnel	1
Hose w/m/f QDs, hyd, 2781-6 x 25'	5 5
Hose w/m/f QDs, hyd, 2781-10 x 25'	5
Hose w/m/f QDs, hyd, 2781-12 x 25'	4
Hose, layflat, 3" x 25'	3
Inventory, laminated	1
Line, dbl brd, nyl, 1/2" x 15' w/3/8" screw pin	3
Line, dbl brd, nyl, 1/2" x 25' w/3/8" screw pin	3
Manual, DOP-160	1
Manual, JBF (DIP 400)	1
Outrigger, 2-pc, w/snap hook, 2 1/2" x 8'	1
Pin, linch, 1/4"	1
Pin, push, 3/8" x 2 3/4"	2
Pipe stinger, 3" camlock x 4'	1

ANCILLARY KIT FOR SK0030

ESSM NUMBER SK0032

SPECIFICATIONS

<u>Item</u>	<u>Qty</u>
Container, Storage (TBD):	1
Plate adapter, outrigger float	1
Plug, poly belt, spare	2
Pontoon, inflatable, 13" x 6'	2
Pump, foot, air w/hose	1
Ratchet strap, 1"	2
Straps (pontoons)	5
Valve, pontoon inflation	1
Wiper strip (belt scraper)	1

PHYSICAL CHARACTERISTICS

	Operating/Shipping
Length	TBD
Width	TBD
Height	TBD
Cube	TBD
Weight	TBD

REFERENCES

None

Downloaded from http://www.everyspec.com



DOP-160 Pump PU0840

PUMP, DOP-160

ESSM NUMBER PU0840

DESCRIPTION

The DOP-160 Pump PU0840 is a modified Archimedes' screw-type pump that has been specially developed for a wide range of emergency and ancillary pumping operations. It has been designed for handling liquids of an extremely high viscosity, like heavy crude. It is also capable of handling low viscosity fluids such as diesel fuel or water; and it will cope with debris normally found at oil spill sites.

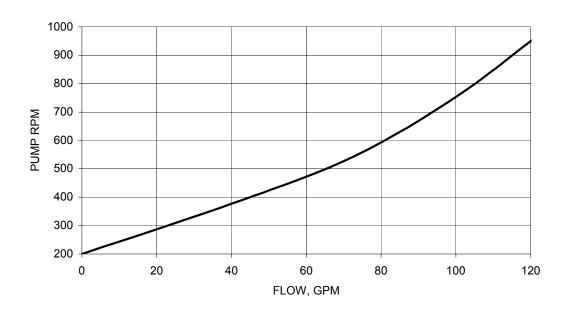
SPECIFICATIONS

Pump assembly Hydraulic motor

Manufacturer	Desmi	Manufacturer	Rex Roth
Model	DOP-160	Type	GMSS 80
Min. manhole diameter	0.4 m (15.7 in.)	Hydraulic connections:	
Pump outlet	3" male camlock	Supply	1/2" Aero-quip female QD
Max. flow rate	42 gpm	Return	1/2" Aero-quip male QD
Max. pressure	10 bar/150 psi	Drain	3/8" Aero-quip female QD
Max. capacity	$27.5 \text{ m}^3/\text{h}/121 \text{ gpm}$		

The DOP-160 Pump PU0840 is a positive-displacement pump and the flow rate is dependent on rpm, as shown by the performance curve below.

PERFORMANCE CURVE



PUMP, DOP-160

ESSM NUMBER PU0840

PHYSICAL CHARACTERISTICS

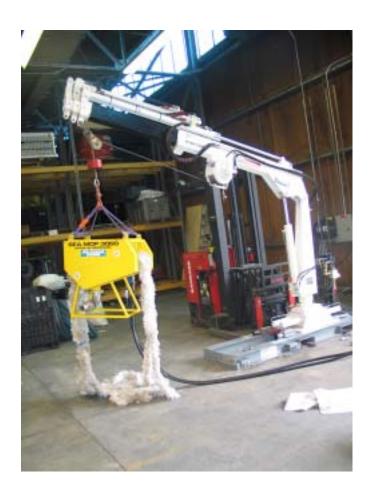
	<u>Operati</u>	ng/S	hipp	oing
--	----------------	------	------	------

Length	1 ft, 4 in.
Width	10 in.
Height	1 ft, 9 in.
Cube	2 cu ft
Weight	68 lb

REFERENCES

1. Operator's Manual for the Desmi DOP-160 Vertical Archimedes' Screw Off-loading Pump.

Downloaded from http://www.everyspec.com



Seamop 3060 Skimmer SK0970

SKIMMER, SEAMOP 3060

ESSM NUMBER SK0970

DESCRIPTION

The Seamop 3060 Skimmer SK0970 is a highly efficient mop skimmer that is ideal for choppy or open waters where a high collection efficiency is required. The continuous mop loops are circulated across the water surface and through the hanging wringer unit. The oil on the water sticks to the oleophilic mop surface and is removed within the Seamop. Recovered oil is drained or pumped into a suitable storage container.

SPECIFICATIONS

Manufacturer	Ro-Clean Desmi
Model	3060
Mop speed	130 ft/min.
Drain connection	3 in.
Recovery capacity	44 gpm
	1056 gal./24-hr day
Roller tension	Spring
Max. Hydraulic pressure	1450 psi
Hose connections	3/8"

PHYSICAL CHARACTERISTICS

	Shipping
Length	2 ft, 5 in.
Width	2 ft, 3 in.
Height	2 ft, 8 in.
Cube	14.5 cu ft
Weight	296 lb

REFERENCES

1. Ro-Clean Desmi Operation and Maintenance Handbook.



Spare Parts Kit for Seamop Skimmer, Model 3060 SK0971

SPARE PARTS KIT FOR SEAMOP SKIMMER, MODEL 3060

ESSM NUMBER SK0971

DESCRIPTION

The Spare Parts Kit SK0971 consists of the necessary spare parts to operate and maintain the Seamop Skimmer, Model 3060 SK0970.

SPECIFICATIONS

<u>Item</u>	<u>Qty</u>
Ammo box, 15" x 14" x 6":	1
Assembly link, 1/2" duplex	5
Bearing with housing, BPFL	2
Bolt, 3/8"-16 x 1 1/2"	4
Connector, QD, -6 female	1
Connector, QD, -6 male	1
Gasket, flange, 4-bolt	1
Inventory, laminated	1
Manual, Operator's & Maintenance, Seamop 3060	1
Nut, hex, 3/8"	4
Roller chain, duplex, 1/2" x 1080 mm	1
Scaling ring, for 1/2" hydraulic hose	4
Sprocket wheel, 1/2" duplex, 17 teeth	2
Tool, bearing installer	1
Washer, flat, 3/8"	4
Washer, lock, 3/8"	4

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length	1 ft, 2 in.
Width	6 in.
Height	1 ft, 2 in.
Cube	1 cu ft
Weight	19 lb

REFERENCES

None



RO-VAC MK II Skimmer SK0980

SKIMMER, RO-VAC MK II

ESSM NUMBER SK0980

DESCRIPTION

The RO-VAC MKII Skimmer SK0980 is designed to suction off liquids and oils floating on water, on the ground, or on the beach. The whole system is designed to be very versatile. The vacuum pump can generate up to 95% vacuum and handle air flow up to 240 cubic feet per minute. It is driven by a hand and electric start diesel engine, mounted in a fully galvanized frame. The RO-VAC MKII is supplied with large-diameter removable wheels and retractable towbar for road and off-road towing, permitting access to many areas of operation.

The RO-VAC MKII incorporates a high pressure, cold water pump for washing of contaminated surfaces. It is activated by pull switch and electromagnetic clutch. A trigger-operated hand lance and chemical dosing eductor with pickup tube are included in the package.

The RO-VAC can generate a vacuum in either an open-top oil drum using a domed vacuum head or a wheeled tank – RO-TANKER. Oil is sucked up into the tank or drum without passing through the vacuum pump. Wheels can be removed for use onboard vessels.

SPECIFICATIONS

Manufacturer	Ro-Clean Desmi
Model	RO-VAC MKII

Engine	High Pressure Pump

Manufacturer	Hatz	Manufacturer	Speck
Type	1D81C	Type	P11/-150
Horsepower	13.4	Cylinders	3
Fuel	Diesel	Max. rpm	1420
Fuel source	5 1/2 gal. integral tank	Horsepower	6
		Max. flow	3.8 gpm
		Max. hyd pressure	2175

Vacuum Pump

Manufacturer	Moro
Type	M10
Starter	12 V

Battery 12 V, 30 Ah/20 hr @ 68° F Alternator 12 V, 9A @ 3000 rpm

SKIMMER, RO-VAC MK II

ESSM NUMBER SK0980

PHYSICAL CHARACTERISTICS

	Operating/Shipping
Length	5 ft, 0 in.
Width	3 ft, 0 in.
Height	5 ft, 3 in.
Cube	79 cu ft
Weight	1492 lb

REFERENCES

1. Ro-Clean Desmi Ro-Vac MKII Portable Vacuum Skimmer Operator's Manual.

Downloaded from http://www.everyspec.com



16' Polyester Roundslings SL0012 (4 per van)

ROUNDSLING, POLYESTER, 16'

ESSM NUMBER SL0012

DESCRIPTION

The 16' Polyester Roundsling SL0012 is an endless synthetic sling made from a skein (continuous loop or hank) of polyester yarn covered by a double-wall tubular jacket. Each sling is supplied with a 1-inch screw pin-type shackle. Four 16' Polyester Roundslings are used for lifting the van to which they are assigned.

SPECIFICATIONS

Sling		<u>Shackle</u>	
Manufacturer	Lift-All	Manufacturer	Crosby
Model	EN240	Part number	G-209-A
Vertical SWL	21,200 lb	Size	1 in.
Choker SWL	17,000 lb	Working load limit	25,000 lb
Basket SWL	42,400 lb	_	
Overall length	16 ft, 0 in.		

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length (operating)	16 ft, 0 in.
Cube (coiled for shipping)	4 cu ft
Weight	18 lb

REFERENCES

1. Lift-All 1998 Catalog.



Arctic Oil Recovery System Van (VA1651) Tool Box TL0027

TOOL BOX, ARCTIC OIL RECOVERY SYSTEM VAN (VA1651)

ESSM NUMBER TL0027

DESCRIPTION

The Skimmer System Tool Box TL0027 is a basic mechanic's tool set that contains 3/8" drive standard sockets and accessories, metric and standard combination wrench sets, adjustable wrenches, pliers, hammers, Phillips and standard screwdrivers, and other miscellaneous tools. It contains the necessary tools to set up and perform basic repairs on the Arctic Oil Recovery System P16500..

SPECIFICATIONS

Manufacturer ESSM Facility

PHYSICAL CHARACTERISTICS

Operating/Shipping

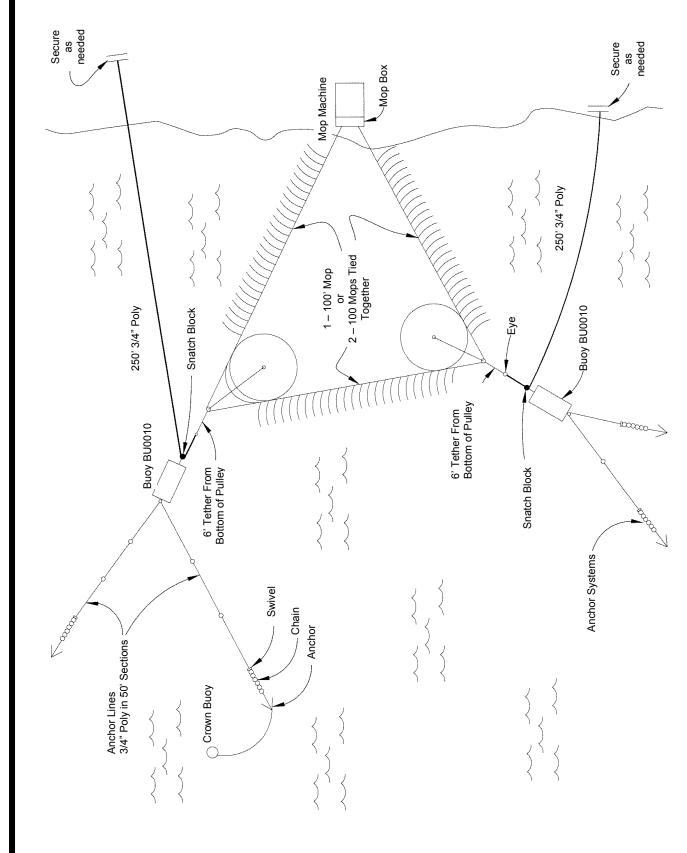
2 ft, 4 in.
1 ft, 1 in.
1 ft, 1 in.
2 cu ft
70 lb

REFERENCES

None

Downloaded from http://www.everyspec.com

ROPE MOP SKIMMER SYSTEM P16600



Rope Mop Skimmer System P16600 Overview

SKIMMER SYSTEM, ROPE MOP

SYSTEM NUMBER P16600

SYSTEM DESCRIPTION

The Rope Mop Skimmer System P16600 is a stationary oil recovery system maintained by SUPSALV. The skimmer unit is diesel-driven and pulls either an 18-inch or 36-inch diameter by 200-foot long continuous loop absorbent rope mop. It is particularly effective in areas of shallow water and/or heavy floating debris.

SYSTEM COMPONENTS

<u>Item</u>	ESSM Number	<u>Qty</u>
1. Skimmer, Rope Mop, 36"	SK0723	1
Buoy, Mooring, 400# Buoyancy	BU0010	2
2. Ancillary Set for SK0723	SK0724	1



36-Inch Rope Mop Skimmer SK0723

SKIMMER, ROPE MOP, 36"

ESSM NUMBER SK0723

DESCRIPTION

The Rope Mop Skimmer SK0723 is a diesel-driven, stationary oil recovery unit. The unit pulls a 200-foot long, continuous loop, absorbent rope mop with a diameter of either 18 or 36 inches. The rope mop skimmer is particularly effective in areas of shallow water and/or heavy floating debris. It is used mainly as a backup for primary skimmers and salvage skimmers. The ancillary equipment for the rope mop skimmer is shipped in three separate containers.

SPECIFICATIONS

Rope Mop Skimmer

Manufacturer OMI

Model Mark IV Series

Effective recovery rate/24-hour day:

18" rope mop 960 bbls 36" rope mop 1920 bbls

<u>Engine</u> <u>Pump</u>

Detroit Diesel Manufacturer Manufacturer Gorman-Rupp 3-53 series 14A2-B Model Model Type 2-cvcle Centrifugal Type Cylinders 3 (self-priming) Bore 3 7/8" Duty cycle Continuous Stroke 4 1/2" Input port 4" NPT Discharge port Displacement 159 cu in. 4" NPT Rated brake horsepower Impeller 78 @ 2200 rpm **Bronze**

Continuous brake horsepower 64 @ 2200 rpm

Torque @ 100 rpm 200 ft-lb Compression ratio 17:1

Power takeoff Single plate 18" clutch

Starting Hydraulic Fuel Diesel

Fuel source Internal fuel tank

Fuel consumption 3 gph

SKIMMER, ROPE MOP, 36"

ESSM NUMBER SK0723

PHYSICAL CHARACTERISTICS

Operating
11 ft, 6 in.
8 ft, 8 in.
8 ft, 8 in.
847 cu ft
14,250 lb

REFERENCES

- 1. Detroit Diesel Engine Operator's Manual Series 53.
- 2. Gorman-Rupp Operations and Service Manual for Self-Priming Centrifugal Pump, Model 14A2-B.
- 3. Oil Mop Inc., Operating Brochure, Mark IV Series, Belle Chasse, LA.

Downloaded from http://www.everyspec.com



Mooring Buoy BU0010

BUOY, MOORING, 400# BUOYANCY

ESSM NUMBER BU0010

DESCRIPTION

The Mooring Buoy BU0010 is positioned between the turning sheaves and the anchor line to help prevent the turning sheave from being pulled under the surface of the water by the rope mop during skimming operations. Two buoys are used with each rope mop skimming system.

SPECIFICATIONS

Manufacturer Ocean Products Size 24" x 36"

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length 3 ft, 9 in.
Width 2 ft, 1 in.
Height 2 ft, 1 in.
Cube 16 cu ft
Weight 42 lb

REFERENCES

None



Ancillary Set for SK0723

ANCILLARY SET FOR SK0723

ESSM NUMBER SK0724

DESCRIPTION

The Ancillary Set For SK0723 is stored and shipped in an aluminum container that is 97 inches x 49 inches x 33 inches. It consists of anchors, crown buoys, snatch blocks, a turning bar, two 36-inch x 100-foot rope mop trains for light oil, two 18-inch x 100-foot rope mop trains, various lengths of 1/2-inch and 3/4-inch polypropylene line, and aluminum drain trays. The Ancillary Set also contains two fairlead blocks for the rope mop trains. The fairlead blocks are stored and shipped separately from the aluminum shipping container.

SPECIFICATIONS

<u>Item</u>	ESSM Number	<u>Qty</u>
Container, aluminum, w/drain valve:		1
Anchor, 65 lb w/10' of 1/2" chain, 1/2" swivel		4
Anchor, helix, roundshaft, 5', 5" x 1" dia		2
Block, snatch, 3/4"		2
Buoy, crown w/10' of 1/2" polypro line, 1/2" swivel		4
Inventory, laminated		1
Line, 1/2" polypro, 10', w/hard eye, soft eye		4
Line, 1/2" polypro, 20', soft eye/soft eye (crown)		4
Line, 3/4" polypro, 50', hard eye/soft eye (anchor)		8
Line, 3/4" polypro, 50', soft eye/soft eye (anchor)		4
Line, 3/4" polypro, 250', hard eye bitter end		2
Rope mop train, 18" x 100'		2
Rope mop train, 36" x 100'		2
Strap, ratchet, small		2
Tarp, neoprene, 10' x 25' x .040" w/grommets		1
Trays, drain, aluminum		2
Turning bar, helix anchor, 3/4" x 5' pipe		1
Fairlead, for rope mop train		2

PHYSICAL CHARACTERISTICS

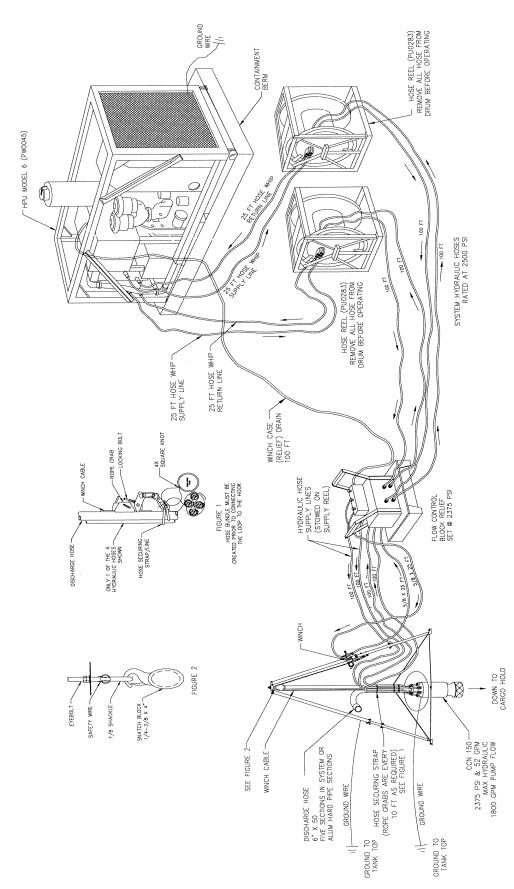
Length	8 ft, 1 in.
Width	4 ft, 1 in.
Height	2 ft, 9 in.
Cube	91 cu ft
Weight	1286 lb

REFERENCES

None

Downloaded from http://www.everyspec.com

6-INCH SUBMERSIBLE HYDRAULIC PUMP SYSTEM P17100



SUBMERSIBLE 6-INCH HYDRAULIC PUMPING SYSTEM OVERVIEW (P17100)

SUBMERSIBLE 6" HYDRAULIC PUMP

SYSTEM NUMBER P17100

SYSTEM DESCRIPTION

The Submersible 6-Inch Hydraulic Pump System P17100 consists of a Mod 6 hydraulic power unit with a machinery containment pool, two hydraulic hose reels, and an ancillary set that includes the 6" hydraulic submersible pump, a hydraulic control block, a winch, a tripod, and a machinery containment pool for the hydraulic flow control block.

The ancillary set is packaged in four containers for ease of shipment and handling. The components contained within the ancillary set are: a submersible 6-inch hydraulic pump, discharge hoses, a hydraulic flow control block, a hydraulic winch, a tripod, a tool box, a machinery containment pool for the flow control block, snatch blocks, clamps, a handtruck, and the necessary supporting ancillary equipment to operate and maintain the Submersible 6-Inch Hydraulic Pump System.

The pump with attached hoses can be lowered into tanks through 12 1/2-inch-diameter Butterworth or larger tank top access hatches, or can be hand-carried into confined spaces. The pump is hydraulically driven by a Mod 6 hydraulic power unit. The Submersible 6-Inch Hydraulic Pump System is designed for the offloading of petroleum products and is capable of withstanding prolonged immersion in petroleum products or sea water. Several pumping systems are required to support a major vessel casualty. For emergency offloading, up to four pumps may be in operation at any one time, discharging from individual tanks. Another two or three pumps may be needed to pump ballast water back into the tanks, or as standby pumps.

SYSTEM COMPONENTS

<u>Item</u>	ESSM Number	<u>Qty</u>
Ancillary Set for PU0280 Pump (made up of 4 containers):	PU0281	1
Container #1:		1
Hose, 6" x 50', Layflat w/Hydrasearch Fittings	HS0820 (not shown)	4
Hose, 6" x 50' w/Male and Female Camlock Fittings	HS0823 (not shown)	2
Containment Pool, Machinery, 5' x 5' x 12"	CP3000	1
Container #2:		1
Clamp, Beam, Universal, 3 1/2" to 12"	CL0200 (not shown)	1
Clamp, Hose, Shutoff, 6"	CL0201 (not shown)	2
Handtruck, Single-Cylinder, 500-Lb Capacity	HT0010 (not shown)	1
Hoist, Grip, 4-T, Model TU-32	HO0228 (not shown)	1
Pump, Submersible, 6", Hydraulic (POL)	PU0280	1

SYSTEM COMPONENTS (Contd)

<u>Item</u>	ESSM Number	<u>Qty</u>
Inner Basket For Container #2:		1
Block, Snatch, 1/2" - 5/8" Wire Rope, 8" Diameter Sheave	BK0035 (not shown)	2
Tool box	TL0017	1
Winch:		1
Hydraulic, 5000 Lb	WN0280 (Altn)	
Hydraulic, 6000 Lb, Series 1	WN0281 (Altn)	
Container #3:		1
Hydraulic Flow Control Block for PU0280 Pump	PU0282	1
Container #4:		1
Tripod (POL)	PU0284	1
Containment Pool, Machinery, 10' x 6' x 12"	CP3010	1
Reel, Hydraulic Hose Assembly	PU0283	2
Power Unit, Hyd, Mod 6, Diesel, 52 gpm @ 2500 psi	PW0045	1
Spare Parts Kit, for Power Unit PW0045	PW0046	1

Downloaded from http://www.everyspec.com



Ancillary Set PU0281

ANCILLARY SET FOR PU0280 PUMP

ESSM NUMBER PU0281

DESCRIPTION

The Ancillary Set PU0281 is comprised of the equipment necessary to offload oil from a damaged vessel, and is shipped in three wire mesh containers and a wooden crate.

SPECIFICATIONS

<u>Item</u>	ESSM Number	<u>Qty</u>
Container #1, Wire Mesh Basket, 62" x 36" x 41": C-clamp, ground w/1' pigtail & T120 lugs Hose, 6" x 50', Layflat w/Hydrasearch Fittings Hose, 6" x 50' w/Male and Female Camlock Fittings Hose, hydraulic, 1" x 20'	HS0820 HS0823	1 1 4 2 4
Container #2, Wire Mesh Basket, 62" x 36" x 41": Adapter x adapter, female split clamp x male camlock, 6" Adapter x hose shank, male camlock x hose shank, 6" Bracket, pump to Dracone Butterworth ring Cap, dust, camlock, 4" Cap, dust, camlock, 6"		1 1 1 1 1 3 3
Clamp, Beam, Universal, 3 1/2" to 12" Clamp, hose	CL0020	1 8
Clamp, Hose, Shutoff, 6" Clamp, split, 6"	CL0201	2 2
Containment Pool, Machinery, 5' x 5' x 12" Coupler x adapter, 4" female camlock x 6" male camlock Coupler x adapter, 6" female camlock x 4" male camlock Coupler x adapter, female camlock x male split clamp, 6" Coupler x hose shank, female camlock x hose shank, 6" Crowbar, 3' Elbow, 90°, female camlock x camlock adapter, 6"	CP3000	1 1 1 1 1 1
Flange, pump inlet, 6" Handtruck, Single-Cylinder, 500-Lb Capacity Hoist, grip, 4-T, model TU-32 Plug, dust, camlock, 4" Plug, dust, camlock, 6"	HT0010 HO0228	1 1 1 3 3
Pump, Submersible, 6" Hydraulic (POL)	PU0280	1

ANCILLARY SET FOR PU0280 PUMP (CONTD)

ESSM NUMBER PU0281

SPECIFICATIONS (Cont'd)

<u>Item</u>	ESSM Number	<u>Qty</u>
Inner Basket For Container #2:		1
Ammo box 11" x 4" x 7"		1
Block, snatch, 1/2" to 5/8" Wire Rope, 8" Diameter Sheave	BK0035	2
Block, snatch, 1/4" to 3/8" x 4"		2
Cable, wire rope, 5/8" x 100'; w/hook (grip hoist)		1
Drawing, Submersible 6" Hydraulic Pump System (SK1094)		1
Eyebolt, 3/4"		1
Flange, international ship connection, 2 1/2' x 7"		1
Flange, international shore connection, 2 1/2' x 7"		1
Gasket, camlock, 4"		6
Gasket, camlock, 6"		6
Inventory, laminated		1
Manual, operation/maintenance, TU-32 grip hoist		1
Manual, POL or water offloading system		1
Manual, technical, CNN-150		1
Manual, technical, control block		1
Manual, hose reel		1
Roundsling, 8', yellow		2
Shackle, safety, 1/2"		1
Shackle, screw pin, 7/8"		1
Sling, wire rope, 4-legged, 3/8" x 57" (each leg)		1
Tool box	TL0017	1
Turnbuckle, jaw & jaw, 5/8"	***************************************	1
Winch, Hydraulic, 5000-Lb (Altn)	WN0280	1
Winch, Hydraulic, 6000-Lb Series 6 (Altn)	WN0281	1
Container #3, Wire Mesh Basket, 62" x 36" x 41":		1
Bleeder, quick disconnect, -12		1
Bleeder, quick disconnect, -16		1
Block, hydraulic flow reducing		1
Boom, absorbent, 8'		1
Hose, hydraulic, 25', FC300-12		2
Hose hydraulic, 42", FC300-12		2
Hose, hydraulic, 50', FC300-6		2
Hydraulic Flow Control Block for PU0280	PU0282	1
Pad, absorbent, bundle		2
Reducer, QD, 16 female to 10 male		1
Reducer, QD, 16 male to 10 female		1

ANCILLARY SET FOR PU0280 PUMP (CONTD)

ESSM NUMBER PU0281

SPECIFICATIONS (Cont'd)

<u>Item</u>	ESSM Number	<u>Qty</u>	
Container #4, Wooden, 122" x 21" x 23":		1	I
Cable, wire rope, 1/4" x 50' (Altn)		1	
Line, nylon, 5/8" x 50', 3-strand (Altn)		1	
Tripod (POL)	PU0284	1	-

PHYSICAL CHARACTERISTICS

	Container #1	Container #2	Container #3
Length Width Height Cube Weight	5 ft, 2 in. 3 ft, 4 in. 3 ft, 0 in. 52 cu ft 1388 lb	5 ft, 2 in. 3 ft, 4 in. 3 ft, 0 in. 52 cu ft 1674 lb	5 ft, 2 in. 3 ft, 4 in. 3 ft, 0 in. 52 cu ft 970 lb
	Container #4		
Length Width Height Cube Weight	10 ft, 2 in. 1 ft, 9 in. 1 ft, 11 in. 34 cu ft 295 lb		

REFERENCES

- 1. Technical Manual for Petroleum, Oil, Lubricant, or Water Offloading Pump System, NAVSEA S9593-BX-OMP-010.
- 2. Technical Manual for Submersible Pump CCN-150, NAVSEA S9593-BZ-OMP-010/3P215.
- 3. Technical Manual for Flow Control Block, Model 15355, NAVSEA S9593-BY-OMP-010/32142.



5' x 5' x 12" Machinery Containment Pool CP3000

CONTAINMENT POOL, MACHINERY, 5' x 5' x 12"

ESSM NUMBER CP3000

DESCRIPTION

The Machinery Containment Pool CP3000 is a 5' x 5' x 12" urethane berm. Its is used to provide a means of catching and containing any oil, fuel, or contaminants leaking or spilled from the component that it is supporting.

SPECIFICATIONS

Manufacturer Basic Concepts
Fabric material Cooley Urethane

PHYSICAL CHARACTERISTICS

	<u>Operating</u>	<u>Shipping</u>
Length	5 ft, 0 in.	1 ft, 8 in.
Width	5 ft, 0 in.	1 ft, 8 in.
Height	1 ft, 0 in.	6 in.
Cube	25 cu ft	1.5 cu ft
Weight	34 lb	34 lb

REFERENCES

None



6" Hydraulic Submersible Pump PU0280

PUMP, SUBMERSIBLE, 6", HYDRAULIC (POL)

ESSM NUMBER PU0280

DESCRIPTION

The 6" Hydraulic Submersible Pump PU0280 is designed for the offloading of petroleum products and is capable of withstanding prolonged immersion in petroleum products or seawater. A sling is provided for lifting and lowering the pump when hoses are attached. The pump is used with combined components included in the 6-Inch Submersible Hydraulic Pump System P17100.

SPECIFICATIONS

Pump Assembly

Manufacturer Thune-Eureka Marine Pollution Control, Inc.

Model CCN-150

Type Hydraulic, single stage, centrifugal

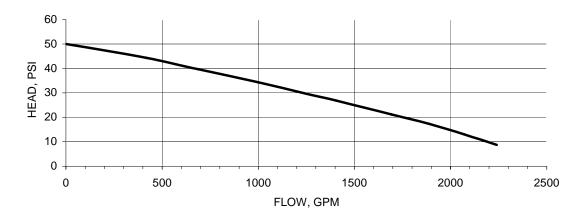
Hydraulic fluid Rando 46 or equivalent

Hydraulic pressure 2345 - 2370 psig Hydraulic fluid temp. 100 - 180°F Back pressure 200 psig max. Hydraulic flow 45 - 52 gpm

Connections:

HP Supply Aeroquip 5601-16 quick disconnect LP Return Aeroquip 5602-16 quick disconnect

PERFORMANCE CURVE



Performance Curve for PU0280

PUMP, SUBMERSIBLE, 6", HYDRAULIC (POL) (CONTD)

ESSM NUMBER PU0280

PHYSICAL CHARACTERISTICS

Opera	ting/S	hip	ping

Height w/hoses 4 ft, 8 in.

Diameter 2 ft, 6 in.

Cube 7 cu ft

Weight 279 lb

REFERENCES

- 1. Technical Manual for Petroleum, Oil, Lubricant, or Water Offloading Pump System, NAVSEA S9593-BX-OMP-010.
- 2. Technical Manual for Submersible Pump CCN-150, NAVSEA S9593-BZ-OMP-010/3P215.
- 3. Technical Manual for Flow Control Block, Model 15355, NAVSEA S9593-BY-OMP-010/32142.

Downloaded from http://www.everyspec.com



POL Pump System Tool Box TL0017

TOOL BOX, POL PUMP SYSTEM

ESSM NUMBER TL0017

DESCRIPTION

The POL Pump System Tool Box TL0017 is a basic mechanic's tool set that contains 1/2" drive sockets and accessories, combination, open-end and adjustable wrenches, pliers, hammers and other miscellaneous tools. It contains the necessary tools to set up and perform basic repairs on the 6-Inch Submersible Hydraulic Pump System P17100

SPECIFICATIONS

Manufacturer Commercial

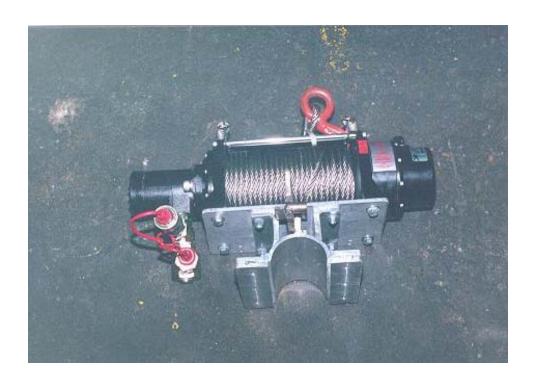
PHYSICAL CHARACTERISTICS

Operating/Shipping

Length 1ft, 7 in. Width 8 in. Height 9 in. Cube 1 cu ft Weight 32 lb

REFERENCES

None



5000-Pound Hydraulic Power Winch WN0280

WINCH, HYDRAULIC, 5000-POUND

ESSM NUMBER WN0280

DESCRIPTION

The 5000-Pound Hydraulic Winch WN0280 is a portable, general purpose, single-drum unit used with the 6-Inch Submersible Hydraulic Pump System. The winch has a capacity of 5000 pounds. The winch is mounted to one leg of the Tripod PU0284.

SPECIFICATIONS

Manufacturer Warn Industries Inc.
Model Series 5 hydraulic

Rated working load 5000 lb
Winch breaking strength, first layer 11,000+ lb
Maximum wire rope diameter 5/16"

Drum dimensions

Barrel diameter 2 1/2"
Flange diameter 5 1/2"
Distance between flanges 8 1/2"
Total gear reduction 26:1

Torque requirement

Static input torque 410 lb-in. (start maximum load)

Dynamic input torque 360 lb-in. (operate maximum load)

Maximum input flow at rated load 12 gpm Duty cycle rating 200'

PHYSICAL CHARACTERISTICS

Length 1 ft, 9 in.

Width 9 in.

Height 11 in.

Cube 1.5 cu ft

Weight 62 lb w/cable

REFERENCES

1. Warn Operator's Manual for Series 5 Hydraulic & Electric Winch.



6000-Pound, Series 6 Hydraulic Winch WN0281

WINCH, HYDRAULIC, 6000-POUND, SERIES 6

ESSM NUMBER WN0281

DESCRIPTION

The 6000-Pound, Series 6 Hydraulic Winch WN0281 is a portable, general purpose, single-drum unit used with the Submersible 6" Hydraulic Pump System. The winch has a capacity of 6000 pounds and is mounted to one leg of the Tripod PU0284.

SPECIFICATIONS

Manufacturer Warn Industries Inc.
Model Series 6 hydraulic

Rated working load 6000 lb
Winch breaking strength, first layer 12,000+ lb
Maximum wire rope diameter 5/16"

Drum dimensions

Barrel diameter 2 1/2"
Flange diameter 6"
Distance between flanges 9"
Total gear reduction 26:1

Torque requirement

Static input torque 415 lb-in. (start maximum load)

Dynamic input torque 365 lb-in. (operate maximum load)

Maximum input flow at rated load 12 gpm Duty cycle rating 258'

PHYSICAL CHARACTERISTICS

Length 1 ft, 3 in.
Width 1 ft, 9 in.
Height 14 in.
Cube 3 cu ft

Weight 84 lb w/ cable

REFERENCES

1. Warn Operator's Manual for Series 6 Hydraulic Winch.



Shipping Configuration for PU0282



Hydraulic Flow Control Block PU0282

HYDRAULIC FLOW CONTROL BLOCK FOR PU0280 PUMP

ESSM NUMBER PU0282

DESCRIPTION

The Hydraulic Flow Control Block PU0282 is designed to control, limit, or combine hydraulic fluid from one or two hydraulic power units (HPUs) to a maximum of three hydraulic motors. The flow control block has a working hydraulic pressure of 2500 psig and a total flow of 52 gpm.

SPECIFICATIONS

Manufacturer Hydrasearch Co., Inc.

Model 15355

Type Aluminum, twin circuit

Hydraulic fluid required Any petroleum based hydraulic fluid

Working pressure 2500 psig

Hydraulic flow:

Per circuit 26 gpm Total 52 gpm

PHYSICAL CHARACTERISTICS

	Operating
Length	2 ft, 8 in.
Width	2 ft, 5 in.
Height	2 ft, 4 in.
Cube	15 cu ft
Weight	240 lb

REFERENCES

- 1. Technical Manual for Flow Control Block, Model 15355, NAVSEA S9593-BY-OMP-010/32142.
- 2. Technical Manual for Petroleum, Oil, Lubricant, or Water Offloading Pump System, NAVSEA S9593-BX-OMP-010.
- 3. Technical Manual for Submersible Pump CNN-150, NAVSEA S9593-BZ-OMP-010/3P215.



Tripod PU0284

TRIPOD (POL)

ESSM NUMBER PU0284

DESCRIPTION

The Tripod PU0284 is an adjustable three-legged stand that is set above the tank or compartment to be pumped. A snatch block is attached to the top of the tripod and a winch with cable is attached to one leg of the tripod. The cable from the winch is passed through the snatch block and attached to the lifting bracket for the offloading pump. The tripod is now able to raise and lower the offloading pump with hoses attached in and out of the tank or compartment that is to be pumped.

SPECIFICATIONS

Manufacturer B. E. Wallace

Model 3-682

PHYSICAL CHARACTERISTICS

	Shipping
Length	10 ft, 2 in.
Width	1 ft, 9 in.
Height	1 ft, 11 in.
Cube	34 cu ft
Weight	295 lb

REFERENCES



Machinery Containment Pool CP3010 (Folded for Storage)

CONTAINMENT POOL, MACHINERY, 10' X 6' X 12"

ESSM NUMBER CP3010

DESCRIPTION

The Machinery Containment Pool CP3010 is a 10' x 6' x 12" urethane berm. It is used to provide a means of catching and containing any oil, fuel, or contaminants, leaking or spilled from the operating equipment it contains.

SPECIFICATIONS

Manufacturer Basic Concepts
Fabric material Cooley Urethane

PHYSICAL CHARACTERISTICS

	<u>Operating</u>	<u>Shipping</u>
Length	10 ft, 0 in.	1 ft, 8 in.
Width	6 ft, 0 in.	1 ft, 8 in.
Height	1 ft, 0 in.	6 in.
Cube	60 cu ft	1.5 cu ft
Weight	56 lb	56 lb

REFERENCES



Hose Reel Assembly PU0283

HOSE REEL ASSEMBLY (POL)

ESSM NUMBER PU0283

DESCRIPTION

The Hydraulic Hose Reel Assembly PU0283 consists of two 100-foot sections of 1-inch supply and two 100-foot sections of 1-inch return hose with quick disconnect fittings reeled onto a flanged spool. The spool is mounted on a steel frame which has forklift slots for transporting. There is a single lift point for connecting a sling to lift the assembly. The hoses on the hose reel assembly transfer hydraulic power from the hydraulic power unit to the hydraulically driven POL pump.

SPECIFICATIONS

Hose Aeroquip 2781-16, four sections, 100 feet long (each)

Quick-disconnect fittings Aeroquip 5600-16-16S

Spool and frame Single-drum, steel w/pillow-block bearings

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length	3 ft, 10 in.
Width	2 ft, 11 in.
Height	4 ft, 2 in.
Cube	47 cu ft

REFERENCES

- 1. Technical Manual, Hose Reel, NAVSEA S9593-BI-OMP-010.
- 2. Technical Manual, Petroleum, Oil, Lubricant, or Water Offloading Pump System, NAVSEA S9593-B02X-OMP-010.



Mod 6 Hydraulic Power Unit PW0045

POWER UNIT, MOD 6, HYDRAULIC, DIESEL, 52 GPM @ 2500 PSI

ESSM NUMBER PW0045

DESCRIPTION

The Mod 6 Hydraulic Power Unit (HPU) PW0045 is a portable, diesel driven unit that provides hydraulic flow through two independent circuits. Each circuit is controlled by an independent directional control valve. An adjustable pressure relief valve controls the output pressure delivered to the supply circuit. The total hydraulic output is 52 gpm at a pressure of 2500 psi.

The HPU is skid-mounted with forklift slots and enclosed in a protective frame with two lifting points. Hydraulic connections utilize 1-inch Aeroquip 5600 series quick disconnect fittings (two male for supply and two female for return).

SPECIFICATIONS

Hydraulic Power Unit Assembly

Manufacturer	Commercial, Navy Design
Drawing	NAVSEA 5191947

<u>Diesel Engine</u>		Hydraulic Pump	
Manufacturer	Detroit Diesel-Allison	Manufacturer	Commercial Shearing
Series 4-53		Model	(2) P30's, tandem
Rpm	2200	Part number	P30B-442-B1-OJ15-25-C-
Нр	87 @ 2200 rpm		OJ15-1
Starting	Hydraulic	Type	Gear
Fuel	Diesel	Op. press. (max.)	2500 psi
Fuel source	20-gal. internal tank	Flow	26 gpm each @ 2200 rpm
Fuel consumption	6 gph	Hyd. reservoir	50 gal.
		Hydraulic fluid	Rando 46

PHYSICAL CHARACTERISTICS

\sim	. •	/01 .	•
()nerg	tina	/Shi	nnına
Opera	ume	$^{\prime}$ DIII	צווועע

Length	8 ft, 0 in.
Width	2 ft, 10 in.
Height	4 ft, 10 in.
Cube	120 cu ft
Weight	4400 lb

POWER UNIT, MOD 6, HYDRAULIC, DIESEL, 52 GPM @ 2500 PSI (CONTD)

ESSM NUMBER PW0045

REFERENCES

1. Operation and Maintenance Instructions for the Hydraulic Power Unit, Model 6, NAVSEA Manual S9597-AB-OMP-010.

Downloaded from http://www.everyspec.com



Spare Parts Kit PW0046

SPARE PARTS KIT, FOR POWER UNIT PW0045

ESSM NUMBER PW0046

DESCRIPTION

The Spare Parts Kit PW0046 contains the items necessary to support the operation and maintenance of one Hydraulic Power Unit PW0045.

SPECIFICATIONS

The Spare Parts Kit contains the following:

<u>Item</u>	<u>Qty</u>
Container, Spare Parts Kit, 21" x 16" x 12":	1
Filter, hydraulic	2
Filter, fuel (BF-593)	2
Filter, fuel (BF-592)	2
Filter, engine oil	2
Gasket, thermostat	1
Injector, fuel	2
Manual, Operation and Maintenance, Mod 6 HPU	1
O-ring, Buna rubber	12
O-ring, Teflon	12
Thermostat	1
V-belt	1
V-belt set	1
Inventory, laminated	1

PHYSICAL CHARACTERISTICS

	Operating/Shipping	
Length	1 ft, 9 in.	
Width	1 ft, 4 in.	
Height	1 ft, 0 in.	
Cube	2.5 cu ft	
Weight	28 lb	

REFERENCES

Downloaded from http://www.everyspec.com

2-INCH TO 6-INCH SUBMERSIBLE HYDRAULIC PUMPING SYSTEM P17200



2" to 6" Pump System Van VA0280



Tool Box TL0023



Hyd Power Unit PW0200B



Hyd Power Unit PW0020



120-Gal. Fuel Tank TK0045



2" Peristaltic Pump PU0300



6" Hyd Pump PU0310



Ancillary Pallet PU0832



2" Pump PU0830



2" Pump PU0835



Control Block PU0831



2" Diaph Pump PU0300



4" Pump PU0305



Pri Ctrl Bk PU0306



Sec Ctrl Bk PU0307



Heavy Oil Pump PU0851



Hyd Winch WN0281



Ctrl Bk PU0311



Tripod PU0284



Spare Parts Kit PW0206



Spare Parts Kit PW0206

2-Inch to 6-Inch Submersible Hydraulic Pumping System P17200 Overview

SUBMERSIBLE HYDRAULIC PUMPING SYSTEM, 2-INCH TO 6-INCH

SYSTEM NUMBER P17200

SYSTEM DESCRIPTION

The 2-Inch to 6-Inch Submersible Hydraulic Pumping System P17200 is a versatile system designed to meet a wide range of on-scene pollution and salvage support requirements. The system is housed in the 2" to 6" Submersible Hydraulic Pump System Van, which contains: a Mod 8 diesel hydraulic power unit that is used to supply hydraulic power to the 4" hydraulic centrifugal screw submersible pumps, the 6" hydraulic submersible high capacity pollution pumps, the heavy oil DOP-250 transfer pumps, the DOP-160 pumps, and the 6000-pound hydraulic winches; and a Mod 9 diesel hydraulic power unit that supplies hydraulic power to the 2" hydraulic submersible pump, the 2" hydraulic trash and slurry pump, the 1/2" underwater hydraulic drill press, and the 1/2" hydraulic drills which are used to operate the heavy duty, lightweight hot taps.

Additional items stored in the van are a 2" to 6" hydraulic submersible pumps ancillary pallet which contains the Mod 9 hydraulic power unit, the 2" hydraulic submersible pumps, the control block for the PU0830 & PU0835 pumps, the 2" hydraulic trash and slurry pump, and the various adapters, couplers, drawing overviews, gaskets, hoses, and other additional items necessary to maintain and operate the system components. There are also four wire mesh containers located in the van that contain a machinery containment pool, the heavy duty lightweight hop tap kit containing the two heavy duty, lightweight hot taps and ancillaries, the two 1/2" hydraulic drills that are used to operate the heavy duty, lightweight hot taps; the underwater drill press kit containing the underwater drill press and ancillaries; the 2" peristaltic diesel pump, the four centrifugal screw 4" hydraulic submersible pumps and their primary and secondary control blocks, two DOP-250 and two DOP-160 pumps; two 2" pneumatic diaphragm pumps and all the necessary hoses, adapters, fittings and ancillaries to operate and maintain the 2" to 6" Submersible Hydraulic Pumping System P17200.

SYSTEM COMPONENTS

<u>Item</u>	ESSM Number	<u>Qty</u>
1. Van, Submersible, 2" to 6" Hydraulic Pump System	VA0280	1
Block, Snatch, 1/2-5/8" Wire Rope, 8" Dia Sheave	BK0035 (not shown)	2
Clamp, Beam, Universal, 3 1/2" to 12"	CL0200 (not shown)	2
Clamp, Hose, Shut-off, 6"	CL0201 (not shown)	4
Containment Pool, Machinery, 10' x 6' x 12"	CP3010	1
Drill, Hydraulic, 1/2"	DR0010	2
Hoist, Grip, 4T, MD TU-32	HO0228 (not shown)	2
Hose, 6" x 25', Layflat, Offshore	HS0818 (not shown)	2
Hose, 6" x 50', Layflat, Offshore	HS0819 (not shown)	2
Hose, 6" x 50', Layflat w/M&F Camlock Fittings	HS0820 (not shown)	5
Hot Tap Kit, Lightweight, Heavy Duty	HT0007	1
Hot Tap, Lightweight, Heavy Duty	HT0006	2
Handtruck, Single-Cylinder, 500-lb Capacity	HT0010 (not shown)	2
Kit, Drill Press, Hydraulic, Underwater	KT0050	1
Drill Press, Hydraulic, Underwater, 1/2"	DR0011	1

SUBMERSIBLE HYDRAULIC PUMPING SYSTEM, 2-INCH TO 6-INCH

SYSTEM NUMBER P17200

SYSTEM COMPONENTS (Contd)

<u>Item</u>	ESSM Number	<u>Qty</u>
Tripod (POL)	PU0284	2
Pump, Peristaltic, 2" Diesel	PU0300	1
Pump, Submersible, 4" Hydraulic, Centrifugal Screw	PU0305	4
Control Block for 4" Hydraulic Pump PU0305, Primary	PU0306	1
Control Block for 4" Hydraulic Pump PU0305, Secondary	PU0307	1
Pump, Submersible, 6", Hydraulic, Pollution (High Capacity)	PU0310	2
Control Block for 6" Hydraulic Pump PU0310	PU0311	2
Ancillary Pallet, 2" to 6" Hydraulic Submersible Pumps	PU0832	1
Containment Pool, Machinery, 5' x 5' x 12"	CP3000	3
Pump, Submersible, 2" Hydraulic	PU0830	1
Control Block for 2" Hydraulic Pumps PU0830 & PU0835	PU0831	1
Pump, Trash and Slurry, 2" Hydraulic	PU0835	1
Power Unit, Hydraulic, Mod 9, Diesel, 10 gpm @ 2000 psi	PW0020	1
Pump, DOP-160	PU0840	2
Pump, Heavy Oil Transfer (DOP-250)	PU0851	2
Pump, Diaphragm, 2", Pneumatic	PU2105	2
Spare Parts Kit, For Power Unit PW0020	PW0021	1
Power Unit, Hydraulic, Mod 8, Diesel, 71gpm @ 4000 psi (Poll)	PW0200B	1
Spare Parts Kit For Mod 8 HPU, PW0200	PW0206	1
Roundsling, Polyester, 16'	SL0012	4
Tank, Diesel Fuel, 120-Gallon	TK0045	1
Tool Box, 2" To 6" Submersible Hydraulic Pump System	TL0023	1
Winch, Hydraulic, 6000-Pound, Series 6	WN0281	2

Downloaded from http://www.everyspec.com



 $2^{\prime\prime}$ to $6^{\prime\prime}$ Submersible Hydraulic Pump System Van VA0280

VAN, 2" TO 6" SUBMERSIBLE HYDRAULIC PUMP SYSTEM

ESSM NUMBER VA0280

DESCRIPTION

The 2" to 6" Submersible Hydraulic Pump System Van (VA0280) contains: a Mod 8 diesel hydraulic power unit that is used to supply hydraulic power to the 4" hydraulic centrifugal screw submersible pumps, the 6" hydraulic submersible high capacity pollution pumps, the heavy oil DOP-250 transfer pumps, the DOP-160 pumps, and the 6000-pound hydraulic winches; a Mod 9 diesel hydraulic power unit that supplies hydraulic power to the 2" hydraulic submersible pump, the 2" hydraulic trash and slurry pump, the 1/2" underwater hydraulic drill press, and the 1/2" hydraulic drills which are used to operate the lightweight heavy duty hot taps.

Additional items stored in the van are a 2" to 6" hydraulic submersible pumps ancillary pallet which contains the Mod 9 hydraulic power unit, the 2" hydraulic submersible pumps, the control block for the PU0830 & PU0835 pumps, the 2" hydraulic trash and slurry pump and the various adapters, couplers, drawing overviews, gaskets, hoses for the above listed items; and all additional items necessary to maintain and operate the system components. There are also four wire mesh containers located in the van that contain a machinery containment pool, the heavy duty lightweight hop tap kit containing the two heavy duty, lightweight hot taps and ancillaries, the two 1/2" hydraulic drills that are used to operate the heavy duty, lightweight hot taps; the underwater drill press kit containing the underwater drill press and ancillaries; the 2" peristaltic diesel pump, the four centrifugal screw 4" hydraulic submersible pumps and their primary and secondary control blocks, two DOP-250 and two DOP-160 pumps; two 2" pneumatic diaphragm pumps and all the necessary hoses, adapters, fitting and ancillaries to operate and maintain the 2" to 6" Submersible Hydraulic Pumping System P17200.

SPECIFICATIONS

Manufacturer ESSM Facility

PHYSICAL CHARACTERISTICS

\sim	. •	/01	•	•
l):	neratin	α/Sh	1171	nna
\smile	peratin	2/ DII	บบเ	лпε

Length	20 ft, 0 in.
Width	8 ft, 0 in.
Height	8 ft, 0 in.
Cube	1280 cu ft
Weight	24,860 lb

REFERENCES



Machinery Containment Pool CP3010 (Folded for Storage)

CONTAINMENT POOL, MACHINERY, 10' X 6' X 12"

ESSM NUMBER CP3010

DESCRIPTION

The Machinery Containment Pool CP3010 is a 10' x 6' x 12" urethane berm. It is used to provide a means of catching and containing any oil, fuel, or contaminants, leaking or spilled from the operating equipment it contains.

SPECIFICATIONS

Manufacturer Basic Concepts
Fabric material Cooley Urethane

PHYSICAL CHARACTERISTICS

	<u>Operating</u>	Shipping
Length	10 ft, 0 in.	1 ft, 8 in.
Width	6 ft, 0 in.	1 ft, 8 in.
Height	1 ft, 0 in.	6 in.
Cube	60 cu ft	1.5 cu ft
Weight	56 lb	56 lb

REFERENCES



1/2-Inch Hydraulic Drill DR0010

DRILL, HYDRAULIC, 1/2-INCH

ESSM NUMBER DR0010

DESCRIPTION

The 1/2-Inch Hydraulic Drill DR0010 is designed for underwater use and is equipped with a 1/2-inch smooth-jawed adjustable chuck capable of holding drill bits with a shaft size of 1/2 inch in diameter.

SPECIFICATIONS

Manufacturer	Stanley
Model	DL09
Drive size	1/2"

Hydraulic pressure range 1000 - 2000 psi Flow range 4 - 12 gpm Optimum flow 8 gpm

Porting -8 SAE O-ring Drill speed 1000 rpm @ 8 gpm

Rpm range 350 - 1500

PHYSICAL CHARACTERISTICS

	<u>Operating</u>
Length	9 in.
Width	3 1/2 in.
Height	6 in.
Cube	1 cu ft
Weight	6 lb

REFERENCES

1. Stanley Hydraulic Drill DL09 Safety, Operation, and Maintenance Manual.



Heavy Duty, Lightweight Hot Tap Kit HT0007

HOT TAP KIT, LIGHTWEIGHT, HEAVY DUTY

ESSM NUMBER HT0007

DESCRIPTION

The Heavy Duty, Lightweight Hot Tap Kit HT0007 is designed for tapping into mild steel hull plating up to 1 inch thick. The tap machine is used to tap a 3 5/8-inch hole through a 4-inch full port ball valve as in the 2" to 6" Submersible Hydraulic Pumping System P17200. The flange/valve assembly, through which the tap is made, comes in two configurations, a flat surface plate and a contour-forming plate.

The Heavy Duty, Lightweight Hot Tap Kit HT0007 consists of the following:

<u>Item</u>	ESSM Number	<u>Qty</u>
Adapter, 3/8" drive extension		5
Adapter, drill bit stop		5
Bit, drill, 5/16"		10
Bit, drill, 9/32"		10
Compound, duct seal, 1 lb		5
Epoxy stick		1
Gasket, special, 4" camlock, Teflon		5
Handle, spindle, hot tap		8
Hole saw, 3 1/2"		10
Key, drill chuck		2
Machine, hot tap, lightweight	HT0006	2
Nutsetter, magnetic, 7/16", 1/4" drive		5
Packing, 1/4", graphite		2
Screw, self-tapping 5/16 -18 x 1"		100
Screw, self-drilling, self-tapping 5/16 -18 x 1"		100
Sealant, pipe thread		1
Socket, deepwell, 6-pt, 1/2", 3/8" drive		5
Spray, preservative (LPS)		2
Tape, Teflon, 1/4" roll		2
Tape, Teflon, 3/4" roll		2
Thread locker		1
Valve, ball, 3/4 NPT x garden hose		2
Wrench, set, hex		2
Wrench, torque, 3/8" drive		1

HOT TAP KIT, LIGHTWEIGHT, HEAVY DUTY

Shipping

ESSM NUMBER HT0007

SPECIFICATIONS

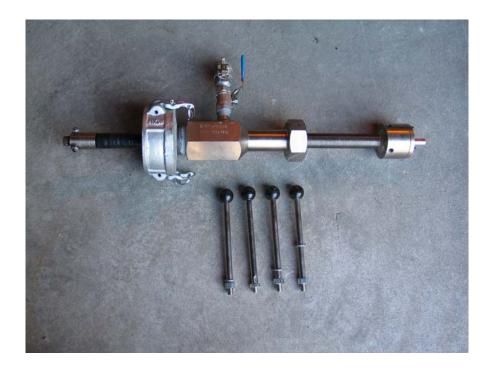
Manufacturer ESSM Facility

PHYSICAL CHARACTERISTICS

	<u>=====================================</u>
Length	1 ft, 2 in.
Width	2 ft, 11 in.
Height	1 ft, 4 in.
Cube	5 cu ft
Weight	100 lb

REFERENCES

Downloaded from http://www.everyspec.com



Heavy Duty, Lightweight Hot Tap HT0006

HOT TAP, LIGHTWEIGHT, HEAVY DUTY

ESSM NUMBER HT0006

DESCRIPTION

The Heavy Duty, Lightweight Hot Tap HT0006 is designed to and has the capability of tapping into mild steel hull plating up to 1 inch thick. The hot tap machine is used to tap a 3 5/8-inch hole through a 4-inch full port valve.

The flange/valve assembly through which the tap is accomplished is available in two configurations, a flat surface plate and a contour-forming plate. The flat surface plate is 12 inches in diameter with a 12-inch bolt hole pattern on a 10-inch bolt circle. This plate is used for flat shell or tank top applications. The contour forming plate has a 12-inch by 4-inch base with serrated tabs perpendicular to the base. These tabs can be formed to the contour of the hull.

SPECIFICATIONS

Manufacturer Easy Tapper Model XTC 1.7S Standard tapping range in kit 3 5/8"

Pressure rating 1470 psi @ 100° F

Method of applied

forward pressure Spindle

Type of machine-to-

valve adapters National Pipe Thread

Power pack for cutter rotation Ready for electric, air, or hydraulic power package

Shinning

PHYSICAL CHARACTERISTICS

	Sinpping
Length	2 ft, 6 in.
Width	11 in.
Height	6 in.
Cube	1 cu ft
Weight	29 lb

REFERENCES



Underwater Hydraulic Drill Press Kit KT0050

KIT, DRILL PRESS, HYDRAULIC, UNDERWATER

ESSM NUMBER KT0050

DESCRIPTION

The Underwater Hydraulic Drill Press Kit KT0050 consist of a lightweight magnet with a holding power of 1200 pounds, a heavyweight magnet with a holding power of 2000 pounds, a foot-operated control valve, and an underwater, hydraulically operated drill press. The components of the kit are stored in a heavy duty plastic container that also serves as a shipping container.

SECIFICATIONS

Manufacturer ESSM Facility

PHYSICAL CHARACTERISTICS

Operating/Shipping

1 ft, 7 in.
3 ft, 0 in.
1 ft, 8 in.
8 cu ft
142 lb

REFERENCES

NONE



1/2-Inch Underwater Hydraulic Drill Press DR0011

DRILL PRESS, HYDRAULIC, UNDERWATER, 1/2-INCH

ESSM NUMBER DR0011

DESCRIPTION

The 1/2-Inch Underwater Hydraulic Drill Press DR0011 is a hydraulically driven 1/2-inch drill press with a specially designed motor for underwater applications. The drill press is controlled by a footoperated control valve. The drill press comes with two magnetic bases; one with an adhesion force of 1200 pounds, a second with an adhesion force of 2000 pounds.

SPECIFICATIONS

Manufacturer Universal Drilling and Cutting

Model HUW200 Magnetic force 1200 lb

Speed 50 - 500 rpm (dependent on flow)

Working pressure 2000 psi Cutter capacity 2" Stroke 6 1/3"

PHYSICAL CHARACTERISTICS

Operating

Length 1 ft, 1 in. Width 9 in.

Height 1 ft, 4 1/2 in.
Cube 2 cu ft
Weight 53 lb

REFERENCES

1. Universal Drilling and Cutting Equipment Operator's Instruction Manual and Spare Parts Listing for Magnetic Base Drilling Machine.



Tripod PU0284

TRIPOD (POL)

ESSM NUMBER PU0284

DESCRIPTION

The Tripod PU0284 is an adjustable three-legged stand that is set above the tank or compartment to be pumped. A snatch block is attached to the top of the tripod and a winch with cable is attached to one leg of the tripod. The cable from the winch is passed through the snatch block and attached to the lifting bracket for the offloading pump. The tripod is now able to raise and lower the offloading pump with hoses attached in and out of the tank or compartment that is to be pumped.

SPECIFICATIONS

Manufacturer B. E. Wallace

Model 3-682

PHYSICAL CHARACTERISTICS

	Shipping
Length	10 ft, 2 in.
Width	1 ft, 9 in.
Height	1 ft, 11 in.
Cube	34 cu ft
Weight	295 lb

REFERENCES



2-Inch Peristaltic Pump PU0300

PUMP, PERISTALTIC, 2", DIESEL

ESSM NUMBER PU0300

DESCRIPTION

The 2-Inch Peristaltic Pump PU0300 is a self-priming, diesel driven, hose-type pump designed to pump a wide variety of viscous materials. The 2-inch pump will pump at a rate of 110 gpm with an open discharge. Maximum practical suction lift is 29 feet above the material surface.

The 2-inch pump is powered by a 1-cylinder, 5.5 hp, air-cooled, 4-cycle engine. The engine has a recoil starter and direct fuel injection with a variable speed control and is designed to operate off its own integral fuel system.

SPECIFICATIONS

Pump Assembly		<u>Engine</u>	
Manufacturer Model	Master Pump Engine Co. MD-5	Manufacturer Model	Yanmar Diesel L60AE-D
Type	Series M, hose-type	Bore/stroke	75mm/62mm
Capacity	110 gpm/open discharge	Displacement	273 сс
Effective daily		Rpm	3600
recovery rate	Mod 2400 (24-hr day) - 226 bbls	Horsepower	5.5
	Mod 4200 (24-hr day) - 459 bbls	Fuel	Diesel
	•	Fuel source	Integral fuel tank.
		Fuel consumption	.5 gph

PHYSICAL CHARACTERISTICS

	Operating/Shipp
Length	2 ft, 9 in.
Width	2 ft, 1 in.
Height	2 ft, 1 in.
Cube	12 cu ft
Weight	192 lb
_	

REFERENCES

- 1. Yanmar Service Manual for Model L-A Series Engine.
- 2. Yanmar Operations Manual for L-A Series Engine.
- 3. Yanmar Diesel Engine Parts Catalog, Pub. No. 00Y00R3981.
- 4. Yanmar Pamphlet for Series M Peristaltic Pumps.



4-Inch Hydraulic Submersible Pump PU0305

PUMP, SUBMERSIBLE, 4-INCH, HYDRAULIC, CENTRIFUGAL SCREW

ESSM NUMBER PU0305

DESCRIPTION

The 4-Inch Hydraulic Submersible Pump PU0305 is capable of pumping oils containing solids up to 2 inches in diameter. The pump is rated for continuous output of up to 1200 gpm at 25 psi discharge pressure. Quick disconnect fittings are utilized to allow for rapid hookup of the discharge hose and the supply and return hydraulic hoses. The 4-Inch Hydraulic Submersible Pump is ideal for moving moderate viscosity oils up to 10,000 cSt.

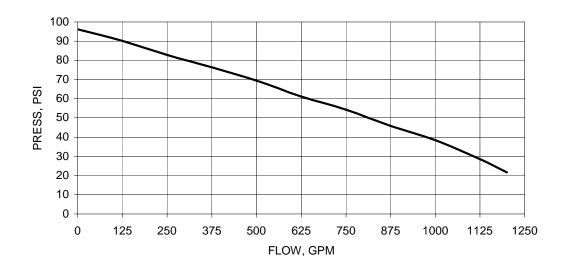
SPECIFICATIONS

Pump Assembly	Motor

Manufacturer	Hydro-Tech	Manufacturer	Rex Roth
Model	S4SCR	Model	A2FM16
Type	Submersible	Operating pressure (max.)	2500 psi
Discharge	4"	Maximum flow rate	25 gpm
•	1000		

Output (max.) 1200 gpm at 25 psi

PERFORMANCE CURVE



PUMP, SUBMERSIBLE, 4-INCH, HYDRAULIC, CENTRIFUGAL SCREW

ESSM NUMBER PU0305

PHYSICAL CHARACTERISTICS

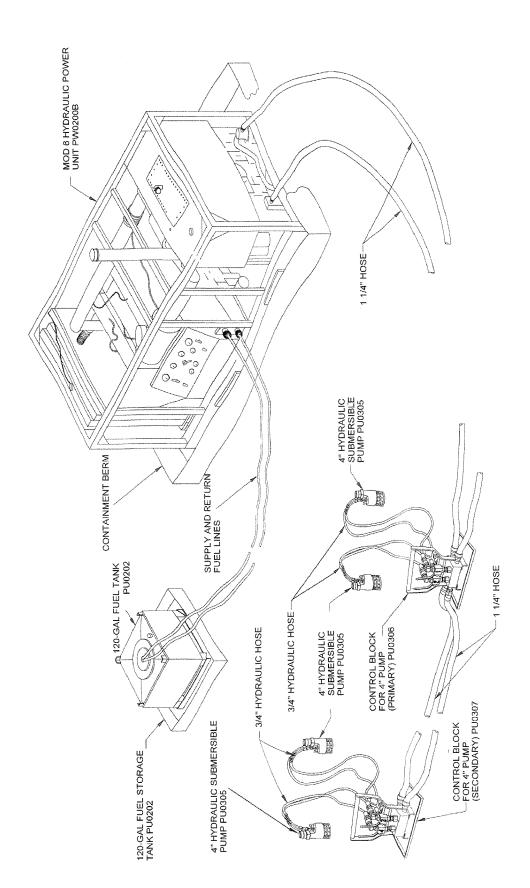
Operating/Shipping

Height 1 ft, 9 in.
Diameter 1 ft, 0 in.
Cube 2 cu ft
Weight 62 lb

REFERENCES

1. Hydro-Tech Operation and Maintenance Instructions, with Illustrated Parts Breakdown, S4SCR Submersible Pump.

Downloaded from http://www.everyspec.com



PU0305 Hydraulic Pump System Overview

(7-244AI Blank)/7-244AJ

Change C

CONTROL BLOCK FOR 4" HYDRAULIC PUMP PU0305, PRIMARY

ESSM NUMBER PU0306

DESCRIPTION

The Primary Control Block for 4" Hydraulic Pump (PU0305) PU0306 is designed to control and limit hydraulic fluid from one hydraulic power unit to a maximum of two hydraulic motors. The control block is also designed with flow-through supply and return passages, which allows hydraulic fluid to be supplied to a secondary control block from the power unit. The flow control block has a working hydraulic pressure of 3500 psig and a total flow of 70 gpm, which is regulated to 15 gpm to each of the 4-inch submersible pumps.

SPECIFICATIONS

Manufacturer ESSM Facility Dwg. Number 7022753

Type Aluminum, twin circuit

Hydraulic fluid required Any petroleum-based hydraulic fluid

Working pressure 3500 psig Hydraulic flow 15 gpm

PHYSICAL CHARACTERISTICS

	<u>Operating</u>	
Length	1 ft, 3 in.	
Width	1 ft	
Height	1 ft, 3 in.	
Cube	2 cu ft	
Weight	32 lb	

REFERENCES

1. 2" to 6" Hydraulic Pumping System Primary Flow Control Block for 2" Hydraulic Pump, NAVSEA Dwg. Number 7022753.



Secondary Control Block for 4" Hydraulic Pump (PU0305) PU0307

CONTROL BLOCK FOR 4" HYDRAULIC PUMP PU0305, SECONDARY

ESSM NUMBER PU0307

DESCRIPTION

The Secondary Control Block for the 4" Hydraulic Pump (PU0305) PU0307 is designed to control and limit hydraulic fluid from one hydraulic power source to a maximum of two hydraulic motors. The flow control block has a working hydraulic pressure of 3500 psig and a total flow of 70 gpm, which is regulated to 15 gpm to each of the 4-inch submersible pumps.

SPECIFICATIONS

Manufacturer ESSM Facility Dwg. Number 7022754

Type Aluminum, twin circuit

Hydraulic fluid required Any petroleum-based hydraulic fluid

Working pressure 3500 psig Hydraulic flow 15 gpm

PHYSICAL CHARACTERISTICS

	<u>Operating</u>
Length	1 ft, 6 in.
Width	1 ft, 2 in.
Height	1 ft, 6 in.
Cube	3 cu ft
Weight	46 lb

REFERENCES

1. 2" to 6" Hydraulic Pumping System Secondary Flow Control Block for 2" Hydraulic Pump, NAVSEA Dwg. Number 7022754.



6-Inch High Capacity Hydraulic Submersible Pump PU0310

PUMP, SUBMERSIBLE, HYDRAULIC, 6-INCH (HIGH CAPACITY)

ESSM NUMBER PU0310

DESCRIPTION

The 6-Inch High Capacity Hydraulic Submersible Pump PU0310 is a high-capacity, hydraulically driven, submersible, centrifugal pump with a shutoff head pressure of 125 psi and a maximum discharge flow of 2200 gpm. The pump, with hoses and fittings attached, is sized to fit through a standard 12 1/2inch Butterworth-type opening. Carrying handles located at the top and bottom of the pump allow for positioning by personnel and serve as pad eyes for lifting slings. The pump can be transported manually by a specially modified handtruck. The pump is powered by the Hydraulic Power Unit PW0200.

SPECIFICATIONS

Discharge dia.

Hydraulic Motor Pump

6" male camlock

Manufacturer Marine Pollution Control Eaton Model KMA 333 Type 46 Type Centrifugal Suction dia. 6" male camlock

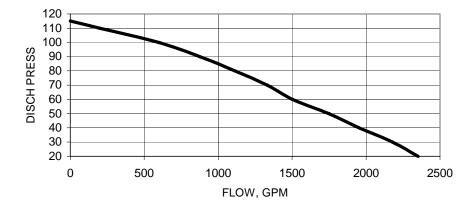
Speed Variable Output 2200 gpm

Hyd. connections Snap-tite, series 71

Supply 1" female Return 1" male Case drain 1/2" male

Manufacturer

PERFORMANCE CURVE



PUMP, SUBMERSIBLE, HYDRAULIC, 6-INCH (HIGH CAPACITY)

ESSM NUMBER PU0310

PHYSICAL CHARACTERISTICS

Operating/Shipping

Height (with inlet screen)	3 ft, 0 in.
Diameter	1 ft, 0 in.
Cube	3 cu ft
Weight	210 lb

REFERENCES

1. Marine Pollution Control KMA 333 Hydraulic Submersible Pump Technical Specifications and Operations Manual.

Downloaded from http://www.everyspec.com



Control Block for the 6" Hydraulic Pump (PU0310) PU0311

CONTROL BLOCK FOR 6" HYDRAULIC PUMP PU0310

ESSM NUMBER PU0311

DESCRIPTION

The Control Block for the 6" Hydraulic Pump (PU0310) PU0311 is designed to control and limit hydraulic fluid from one hydraulic power unit to a maximum of two hydraulic motors (one motor for the 6" submersible pump and one motor for the 6000-lb winch). The flow control block has a working hydraulic pressure of 4000 psig and a total flow of 71 gpm.

SPECIFICATIONS

Manufacturer ESSM Facility

Type Aluminum, twin circuit

Sketch SK1378

Hydraulic fluid required Any petroleum-based hydraulic fluid

Operating

Working pressure 4000 psig Hydraulic flow 71 gpm

PHYSICAL CHARACTERISTICS

<u>5</u>
n.
in.
n.
t
1

REFERENCES

None



Ancillary Pallet PU0832

ANCILLARY PALLET, 2" TO 6" HYDRAULIC SUBMERSIBLE PUMPS

ESSM NUMBER PU0832

DESCRIPTION

The Ancillary Pallet PU0832 is used as a shipping/ storage pallet for three oil containment pools, one 2-inch hydraulic submersible pump, one 2-inch trash pump, one Mod 9 Hydraulic Power Unit, one hydraulic flow control block for the 2-inch pumps, and the various ancillary items to maintain and operate the 2-inch to 6-inch pumps. The items contained in the Ancillary Pallet PU0832 are listed below.

SPECIFICATIONS

Manufacturer ESSM Facility Drawing Number 7539529

The Ancillary Pallet for the 2" Hydraulic Pumps PU0830 and PU0835 contains the following:

<u>Item</u>	ESSM Number	<u>Qty</u>
2" to 6" Hydraulic Submersible Pumps Ancillary Pallet Line, nylon, 1/4" x 500' Adapter, hydraulic, -16 Aeroquip to -10 Snap-Tite Adapter, hydraulic, -16 Aeroquip to -12 Aeroquip Adapter, hydraulic, -16 Aeroquip to -16 Snap-Tite Adapter, hydraulic, -20 Snap-Tite to -12 Aeroquip Adapter, hydraulic, -20 Snap-Tite to -20 Aeroquip Adapter, hydraulic, -6 Aeroquip to -6 Snap-Tite Adapter x adapter, 3" male camlock x 4" male camlock Adapter x adapter, male camlock x male camlock, 3" Adapter x adapter, male camlock x male camlock, 4" Bleeder, quick disconnect, -12 Bleeder, quick disconnect, -16 Bleeder, Snap-Tite, -20 Bolt, ss, 3/8"-16 x 3/4" Box, metal, 19" x 13" x 13" (black) Cable tie, 15"	PU0832	1 1 2 2 1 1 1 2 4 4 4 1 1 2 8 1
Cable tie, 14"		4
Cable tie, blue		4
Cable tie, green		4
Cable tie, red		4
Cable tie, yellow		4

ANCILLARY PALLET, 2" TO 6" HYDRAULIC SUBMERSIBLE PUMPS

ESSM NUMBER PU0832

2" to 6" Hydraulic Submersible Pumps Ancillary Pallet (Contd)

<u>Item</u>	ESSM Number	<u>Qty</u>
Cap, dust, camlock, 4"		8
Coupler x adapter, 3" female camlock x 4" male camlock		4
Coupler x adapter, 3" female camlock x 4" male camlock		4
Coupler x adapter, 4" female camlock x 3" male camlock		4
Coupler x adapter, 4" female camlock x 6" male camlock		4
Coupler x adapter, 6" female camlock x 4" male camock		4
Coupler x adapter, f camlock x m camlock, 4"; w/3/4" ball valve		2
Coupler x coupler, 4" female camlock x 6" female camlock		4
Coupler x coupler, female camlock x female camlock, 3"		4
Coupler x coupler, female camlock x female camlock, 4"		4
Coupler x flange, female camlock x pump flange, 2"		2
Elbow, 45°, female camlock x male camlock, 4"		4
Elbow, 90°, female camlock x male camlock, 4"		4
Flowmeter, hydraulic; w/-20 Snap-Tite QDs @10-75gpm		1
Gasket, camlock, 3"		20
Gasket, camlock, 4"		20
Gasket, camlock, 6"		20
Gasket, flange, 2" (female camlock x pump flange)		4
Gate, aluminum, 32" x 1 1/2" x 14 1/2"		3
Hose, air, 3/4" x 50' w Chicago fittings		4
Hose, hydraulic, -12, 3/4" x 25' (4k psi)		4
Hose, hydraulic, -12, 3/4" x 50' (4k psi)		4
Hose, layflat, 2" x 50'; w/ male & female camlock		2
Hose, layflat, 4" x 50; w/ male & female camlock		2
Hose, suction, 2" x 25'		8
Hose, suction, 2" x 50'		4
Hose, suction, 4" x 25'		2
Hose, suction, 4" x 50'		2
Lockwire, ss, .032 diameter		4
Plug, dust, camlock, 4"		8
Ramp, aluminum, 28" x 5"		2
Stinger, 2" x 4'		2
Strap, ratchet, 1"		7
Adapter x adapter, 2" male camlock x 3" male camlock		4
Adapter x adapter, male camlock x male camlock, 2"		4
Cap, dust, camlock, 2"		6

ANCILLARY PALLET, 2" TO 6" HYDRAULIC SUBMERSIBLE PUMPS

ESSM NUMBER PU0832

2" to 6" Hydraulic Submersible Pumps Ancillary Pallet (Contd)

<u>Item</u>	ESSM Number	<u>Qty</u>
Coupler x adapter, 2" female camlock x 3" male camlock		4
Coupler x adapter, 4" female camlock x 2" male camlock		4
Coupler x adapter, female camlock x male camlock, 2";		
w/3/4" ball valve		2
Coupler x coupler, female camlock x female camlock, 2"		4
Gasket, camlock, 2"		20
Plug, dust, camlock, 2"		6
Inventory, laminated		1
Containment pool, machinery, 5' x 5' x 12"	CP3000	3
Pump, submersible, 2" hydraulic	PU0830	1
Control block for 2" hyd pumps PU0830/PU0835	PU0831	1
Pump, trash and slurry, 2" hydraulic	PU0835	1
Power unit, hyd, Mod 9, dsl, 10 gpm @ 2000 psi	PW0020	1

PHYSICAL CHARACTERISTICS

	Operating/Shipping
Length	7 ft, 4 in.
Width	4 ft, 7 in.
Height	6 ft, 4 in.
Cube	213 cu ft
Weight	3574 lb

REFERENCES

1. 2-Inch to 6-Inch Submersible Hydraulic Pumping System Ancillary Pallet, NAVSEA Dwg. 7539529.



5' x 5' x 12" Machinery Containment Pool CP3000

CONTAINMENT POOL, MACHINERY, 5' x 5' x 12"

ESSM NUMBER CP3000

DESCRIPTION

The Machinery Containment Pool CP3000 is a 5' x 5' x 12" urethane berm. Its is used to provide a means of catching and containing any oil, fuel, or contaminants leaking or spilled from the component that it is supporting.

SPECIFICATIONS

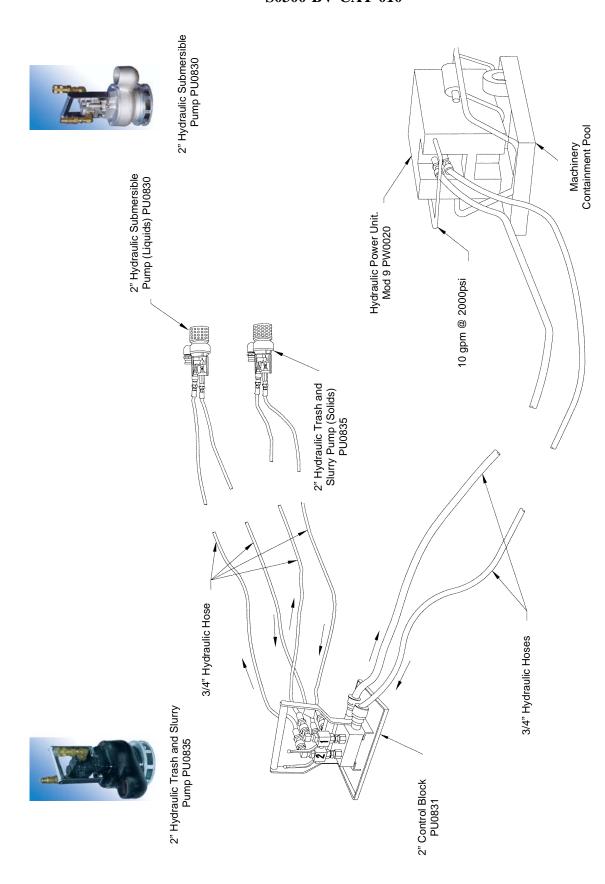
Manufacturer Basic Concepts
Fabric material Cooley Urethane

PHYSICAL CHARACTERISTICS

	<u>Operating</u>	<u>Shipping</u>	
Length	5 ft, 0 in.	1 ft, 8 in.	
Width	5 ft, 0 in.	1 ft, 8 in.	
Height	1 ft, 0 in.	6 in.	
Cube	25 cu ft	1.5 cu ft	
Weight	34 lb	34 lb	

REFERENCES

None



2" Hydraulic Submersible Pump Overview PU0830 & PU0835

PUMP, SUBMERSIBLE, 2" HYDRAULIC

ESSM NUMBER PU0830

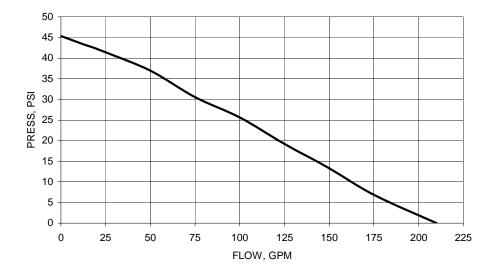
DESCRIPTION

The 2-Inch Hydraulic Submersible Pump PU0835 is capable of pumping water containing some solids up to 1 inch in diameter. The pump is rated for continuous output of up to 210 gpm at 0 psi discharge pressure. Quick disconnect fittings are utilized to allow for rapid hookup of the discharge hose and the supply and return hydraulic hoses. The 2-Inch Hydraulic Submersible Pump is a very portable and versatile all-purpose pump that can be used for bilge pumping, wastewater transfer, and for pumping oil.

SPECIFICATIONS

Pump Assembly		<u>Motor</u>	
Manufacturer	Hydro-Tech	Manufacturer	Rex Roth
Model	S2TCAL-2	Operating pressure (max)	2500 psi
Type	Submersible	Flow rate (max.)	5 gpm
Discharge	2"		
Output (max.)	210 gpm at 0 psi		

PERFORMANCE CURVE



PUMP, SUBMERSIBLE, 2" HYDRAULIC

ESSM NUMBER PU0830

PHYSICAL CHARACTERISTICS

Operating/Shipping

Height 1 ft, 1 in.
Diameter 9 3/8 in.
Cube 1 cu ft
Weight 16 lb

REFERENCES

1. Hydro-Tech Operation and Maintenance Instructions, with Illustrated Parts Breakdown, S2T-2 Submersible Pump.

PUMP, TRASH AND SLURRY, 2" HYDRAULIC

ESSM NUMBER PU0835

DESCRIPTION

The 2-Inch Hydraulic Trash and Slurry Pump PU0835 is capable of pumping water containing solids up to 2 inches in diameter. The pump is rated for continuous output of up to 185 gpm at 0 psi discharge pressure. Quick disconnect fittings are utilized to allow for rapid hookup of the discharge hose and the supply and return hydraulic hoses. The 2-Inch Hydraulic Trash and Slurry Pump is ideal for bilge pumping, wastewater transfer, and for pumping oil.

SPECIFICATIONS

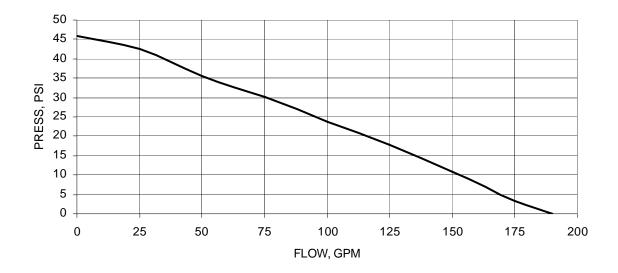
Pump Assembly Motor

ManufacturerHydro-TechManufacturerRex RothModelS2TAL-2Operating pressure (max.)2500 psiTypeSubmersibleFlow rate (max.)5 gpm

Discharge 2"

Output (max.) 185 gpm at 0 psi

PERFORMANCE CURVE



PUMP, TRASH AND SLURRY, 2" HYDRAULIC

ESSM NUMBER PU0835

PHYSICAL CHARACTERISTICS

Operating/Shipping

Height 1 ft, 1 1/2 in.
Diameter 9 3/8 in.
Cube 1 cu ft
Weight 18 lb

REFERENCES

1. Hydro-Tech Operation and Maintenance Instructions, with Illustrated Parts Breakdown, S2T-2 Submersible Pump.

Downloaded from http://www.everyspec.com



Control Block for 2" Hydraulic Pumps (PU0830 & PU0835) PU0831

CONTROL BLOCK FOR 2" HYDRAULIC PUMPS PU0830 AND PU0835

ESSM NUMBER PU0831

DESCRIPTION

The Control Block for 2" Hydraulic Pumps (PU0830 and PU0835) PU0831 is designed to control and distribute hydraulic fluid from one hydraulic power unit to a maximum of two hydraulic motors. The flow control block has a working hydraulic pressure of 2500 psig and a total flow of 10 gpm.

SPECIFICATIONS

Manufacturer ESSM Facility Dwg. Number 7022752

Type Aluminum, twin circuit

Hydraulic fluid required Any petroleum-based hydraulic fluid

Working pressure 2500 psig Hydraulic flow: 25 gpm

PHYSICAL CHARACTERISTICS

	<u>Operating</u>
Length	1 ft, 3 in.
Width	1 ft
Height	1 ft, 3 in.
Cube	2 cu ft
Weight	32 lb

REFERENCES

1. 2" to 6" Hydraulic Pumping System Primary Flow Control Block for 2" Hydraulic Pump, NAVSEA Dwg. Number 7022752.



Mod 9 HPU Front View



Mod 9 HPU Right Side View

Mod 9 Hydraulic Power Unit PW0020

POWER UNIT, HYDRAULIC, MOD 9, DIESEL, 10 GPM @ 2000 PSI

ESSM NUMBER PW0020

DESCRIPTION

The Mod 9 Hydraulic Power Unit (HPU) PW0020 is a portable, diesel driven unit that provides hydraulic fluid up to 10 gpm @ 2000 psi. An adjustable pressure relief valve controls the output pressure delivered to the supply circuit. The HPU is mounted on a wheeled frame and is enclosed in a protective steel housing with four sling points on the external steel tubing frame. Hydraulic connections are made via Aeroquip 5600, -12 series male and female quick disconnect fittings for the hydraulic supply and return, with a 3/8-inch case drain fitting. The unit is shipped with the exhaust muffler attached to the side of the HPU housing, and the muffler is installed prior to operation of the unit.

SPECIFICATIONS

Hydraulic Power Unit Assembly

Model D-17S10-15-W

<u>Diesel Engine</u> <u>Hydraulic Pump</u>

Manufacturer	Deutz Ruggerini	Manufacturer	Sauer-Sundstrand
Series	MD 191	Model	SNP 2/11
Rpm	2200	Type	Gear
Horsepower	19 @ 3600 rpm	Flow	10 gpm @ 2000 psi
Starting	Electric, 12-volt	Hyd. reservoir	5 gal.
Fuel	Diesel	Fluid type	Rando 46

Fuel source Internal fuel tank, 4-gal.,

or external tank using installed fuel pickup

Fuel consumption 1 gph

PHYSICAL CHARACTERISTICS

Operating/Shipping

3 ft, 5 in.
2 ft, 7 in.
2 ft, 7 in.
24 cu ft
472 lb

POWER UNIT, HYDRAULIC, MOD 9, DIESEL, 10 GPM @ 2000 PSI

ESSM NUMBER PW0020

REFERENCES

- 1. Operation, Maintenance, and Repair Manual for PortaCo Hydraulic Power Unit, Model D-17S10-15-W
- 2. Deutz Ruggerini Use and Maintenance Manual, Engine Type MD150-151 and MD190-191.

Downloaded from http://www.everyspec.com



DOP-160 Pump PU0840

PUMP, DOP-160

ESSM NUMBER PU0840

DESCRIPTION

The DOP-160 Pump PU0840 is a modified Archimedes' screw-type pump that has been specially developed for a wide range of emergency and ancillary pumping operations. It has been designed for handling liquids of an extremely high viscosity, like heavy crude. It is also capable of handling low viscosity fluids such as diesel fuel or water; and it will cope with debris normally found at oil spill sites.

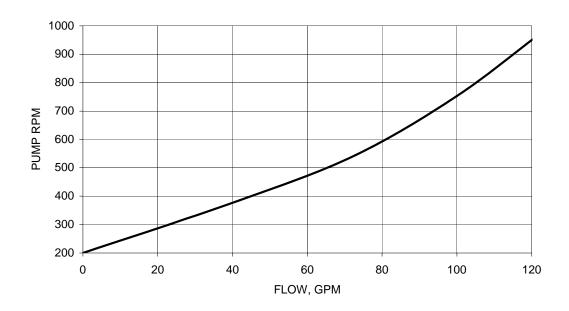
SPECFICATIONS

Pump Assembly Hydraulic Motor

Manufacturer	Desmi	Manufacturer	Rex Roth
Model	DOP-160	Type	GMSS 80
Min. manhole diameter	0.4 m (15.7 in.)	Hydraulic connections:	
Pump outlet	3" male camlock	Supply	1/2" Aero-quip female QD
Max. flow rate	42 gpm	Return	1/2" Aero-quip male QD
Max. pressure	10 bar/150 psi	Drain	3/8" Aero-quip female QD
Max. capacity	$27.5 \text{ m}^3/\text{h}/121 \text{ gpm}$		

The DOP-160 Pump PU0840 is a positive-displacement pump and the flow rate is dependent on rpm, as shown by the performance curve below.

PERFORMANCE CURVE



PUMP, DOP-160

ESSM NUMBER PU0840

PHYSICAL CHARACTERISTICS

\sim	. •	/01	•		
()n	erating	y/Sh	111	nın	σ
Op.	ciutilis	3/ DII	ıν		5

Length	1 ft, 4 in.
Width	10 in.
Height	1 ft, 9 in.
Cube	2 cu ft
Weight	68 lb

REFERENCES

1. Operator's Manual for the DESMI DOP-160 Vertical Archimedes' Screw Off-loading Pump.

Downloaded from http://www.everyspec.com



Heavy Oil Transfer Pump PU0851

PUMP, HEAVY OIL TRANSFER (DOP-250)

ESSM NUMBER PU0851

DESCRIPTION

The Heavy Oil Transfer Pump PU0851 is a modified Archimedes' screw-type pump that is capable of moving highly viscous products at high discharge pressures. The heavy oil transfer pump is designed to work well at slow operating speeds and can gently handle any medium without mixing or emulsifying the medium. The pump is driven by a hydraulic power unit with the necessary ancillary equipment.

SPECIFICATIONS

Pump A	Assemb	<u>ly</u>	<u>H</u>	yc	lrauli	c l	Moto:	r

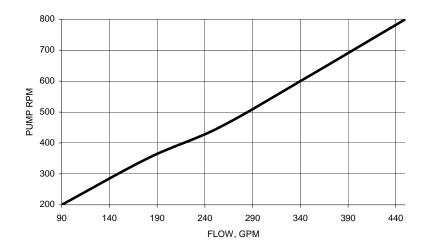
Manufacturer	Desmi	Manufacturer	Danfoss
Model	DOP-250	Type	OMTS-200
Min. manhole diameter	0.6 m (24 in.)	Hyd. connections:	
Pump outlet	6" male camlock	Supply	1" Aero-quip femal

Pump outlet 6" male camlock Supply 1" Aero-quip female QD Max. flow rate 42 gpm Return 1" Aero-quip male QD Max. pressure 10 bar/150 psig Drain 3/8" Aero-quip female QD

Max. capacity $100 \text{ m}^3/\text{h}/440 \text{ gpm}$

The Heavy Oil Transfer Pump PU0851 is a positive displacement and the flow rate is dependant on the rpm of the pump as shown by the performance curve below .

PERFORMANCE CURVE



PUMP, HEAVY OIL, TRANSFER (DOP-250)

ESSM NUMBER PU0851

PHYSICAL CHARACTERISTICS

	Operating/Shipping
Length	1 ft, 10 in.
Width	1 ft, 2 in.
Height	1 ft, 9 in.
Cube	4 cu ft
Weight	154 lb

REFERENCES

1. Operator's Manual for DESMI DOP-250.

Downloaded from http://www.everyspec.com



Pneumatic 2-Inch Diaphragm Pump PU2105

PUMP, DIAPHRAGM, 2-INCH, PNEUMATIC

ESSM NUMBER PU2105

DESCRIPTION

The Pneumatic 2-Inch Diaphragm Pump PU2105 is made of aluminum and is typically used to move abrasive, heavy, viscous, corrosive and aggressive materials. The pump is used in applications where electricity is not available or cannot be used due to safety conditions. The diaphragm pump provides pollution-free and energy-efficient operation, with fewer moving parts than conventional motor-driven pumps. The 2-Inch Diaphragm Pump is completely self-priming from a dry startup to suction lifts of 20 feet. For priming of suction lifts in excess of 20 feet, fill the chambers of the pump with water. An air supply less than 125 psi is required to operate the pump.

SPECIFICATIONS

Manufacturer Warren Rupp

Model SA2-A Displacement per stroke .43 gal.

Max. flow per minute 140 gpm @ 100 psi supply air pressure

Max. solid handling

Suction

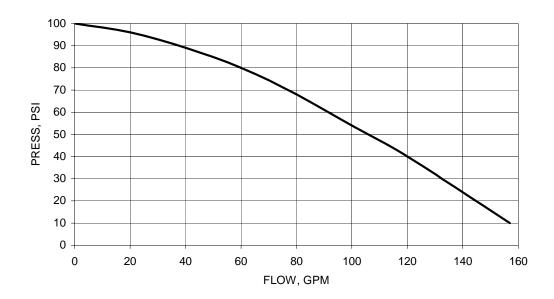
Discharge

2"

125

Max. air supply pressure 125 psi

PERFORMANCE CURVE



PUMP, DIAPHRAGM, 2-INCH, PNEUMATIC

ESSM NUMBER PU2105

PHYSICAL CHARACTERISTICS

Operatir	ig/S	hip	ping

Length	1 ft, 11 in.
Width	1 ft, 5 in.
Height	1 ft, 9 in.
Cube	5 cu ft
Weight	80 lb

REFERENCES

1. Sandpiper Operating Instructions, Service Manual and Parts List for the Warren Rupp Model SA2-A Type 3 Pump.

Downloaded from http://www.everyspec.com



Spare Parts Kit PW0021

SPARE PARTS KIT, FOR POWER UNIT PW0020

ESSM NUMBER PW0021

DESCRIPTION

The Spare Parts Kit PW0021 contains items necessary to support the operation and maintenance of one Hydraulic Power Unit PW0020.

SPECIFICATIONS

The spare parts kit contains the following:

<u>Item</u>	Qty
Container, spare parts, 18" x 11" x 10":	1
Filter, engine air	1
Filter, engine oil	1
Filter, engine fuel	1
Filter, hydraulic	1
Inventory, laminated	1

PHYSICAL CHARACTERISTICS

Operatin	g/Shi	pping
----------	-------	-------

Length	1 ft, 7 in.
Width	11 in.
Height	10 in.
Cube	1 cu ft
Weight	6 lb

REFERENCES



Mod 8 Hydraulic Power Unit PW0200B

POWER UNIT, HYDRAULIC, MOD 8, DIESEL, 71 GPM @ 4000 PSI

ESSM NUMBER PW0200B

DESCRIPTION

The Mod 8 Diesel Hydraulic Power Unit PW0200B is a skid-mounted assembly that provides hydraulic fluid flow of up to 71 gpm at 4000 psi from a variable displacement, pressure compensated pump. The flow rate can be mechanically varied at the control panel. Maximum system pressure is adjustable at the pump.

SPECIFICIATIONS

Hydraulic Power Unit

Manufacturer Highstar Industries

Model 82647

<u>Engine</u> <u>Pump</u>

Sauer-Sundstrand Manufacturer Detroit Diesel Manufacturer Model Series 40, 8.7 LT Model Series 90 Variable Axial piston Type In-line 6.10 cu. in./rev No. of cylinders 6, in-line config. Max. displacement Combustion Hydraulic fluid 4-cycle Rando 46 Starting Hydraulic Hydraulic reservoir capacity 70 gallons

Hydraulic fluid output

Horsepower 225 @ 2100 rpm

Fuel Diesel

Fuel source 120-gal. ext. tank

w/ pickup tube & hoses

Fuel consumption 11.8 gph

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length	7 ft, 7 in.
Width	3 ft, 11 in
Height	4 ft, 0 in.
Cube	122 cu ft
Weight	3850 lb

REFERENCES

1. Commercial Off-the-Shelf (COTS) Manual, Hydraulic Power Unit (HPU) Model 82647, PW0200.

71 gpm @ 4000 psi



Spare Parts Kit PW0206

SPARE PARTS KIT FOR HYDRAULIC POWER UNIT PW0200

ESSM NUMBER PW0206

DESCRIPTION

The Spare Parts Kit PW0206 contains the items necessary to support the operation and maintenance of one Hydraulic Power Unit PW0200.

SPECIFICATIONS

The Spare Parts Kit contains the following:

<u>Item</u>	Qty
Container, spare parts kit, 24-gallon:	1
Filter, air	1
Filter, engine coolant	1
Filter, engine oil	1
Filter, fuel	1
Filter, engine fuel prefilter	1
Filter, hydraulic, high pressure	1
Filter, hydraulic, medium pressure	2
Filter, hydraulic, system return	2
Plug, bleeder	1
Repair kit, quick disconnect (71-3C16-SPK)	2
Repair kit, quick disconnect (71-3N16-SPK)	2
V-belt, engine auxiliaries	1
V-belt, engine starting system	1
Inventory, laminated	1

PHYSICAL CHARACTERISTICS

Length 1 ft, 9 in. Width 1 ft, 4 in. Height 1 ft, 0 in. Cube 2.5 cu ft Weight 28 lb		Operating/Shipping
	Width Height	1 ft, 4 in. 1 ft, 0 in. 2.5 cu ft

REFERENCES



16' Polyester Roundslings SL0012

ROUNDSLING, POLYESTER, 16'

ESSM NUMBER SL0012

DESCRIPTION

The 16' Polyester Roundsling SL0012 is an endless synthetic sling made from a skein (continuous loop or hank) of polyester yarn covered by a double-wall tubular jacket. Four 16' Polyester Roundslings are used for lifting the van to which they are assigned.

SPECIFICATIONS

Sling		<u>Shackle</u>	
Manufacturer	Lift-All	Manufacturer	Crosby
Model	EN240	Part number	G-209-A
Vertical SWL	21,200 lb	Size	1 in.
Choker SWL	17,000 lb	Working load limit	25,000 lb
Basket SWL	42,400 lb		
Overall length	16 ft, 0 in.		

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length (operating)	16 ft, 0 in.
Cube (coiled for shipping)	4 cu ft
Weight	18 lb

REFERENCES

1. Lift-All 1998 Catalog.



120-Gallon Diesel Fuel Tank TK0045

TANK, DIESEL FUEL, 120-GALLON

ESSM NUMBER TK0045

DESCRIPTION

The 120-Gallon Diesel Fuel TK0045 is a portable, stainless steel container used to provide No.2 diesel fuel to the PW0200 diesel HPU. Four pad eyes are located at the top of the tank for attachment of lifting slings, and there is sufficient clearance at the bottom for lifting forks. A tank opening with cap is provided for filling and for the insertion of a pickup/return fuel hose assembly. The fuel pickup tube and hoses are stored on the HPU. A manhole is provided for cleaning and inspecting the tank interior. A ball-type valve, located on one side of the tank bottom is used to drain fuel from the tank.

SPECIFICATIONS

Manufacturer Hoover Group, Inc.

Design (pressure) 9.5 psi
Tank weight 300 lb
Gross weight 1255 lb
Volume capacity 120 gal.

Material Stainless steel, ASTM A-240

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length 4 ft, 2 in.
Width 3 ft, 8 in.
Height 2 ft, 3 in.
Cube 33 cu ft
Weight (empty) 300 lb
Weight (full) 1174 lb

REFERENCES



2" To 6" Submersible Hydraulic Pump System Tool Box TL0023

TOOL BOX, 2" TO 6" SUBMERSIBLE HYDRAULIC PUMP SYSTEM

ESSM NUMBER TL0023

DESCRIPTION

The 2" To 6" Submersible Hydraulic Pump System Tool Box TL0023 is a basic mechanic's tool set that contains 1/2" drive sockets and accessories, combination, open-end and adjustable wrenches, pliers, hammers and other miscellaneous tools. It contains the necessary tools to set up, operate, and maintain the 2" To 6" Submersible Hydraulic Pump System.

SPECIFICATIONS

Manufacturer ESSM Facility

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length 2 ft, 3 in.
Width 9 in.
Height 10 in.
Cube 1 cu ft
Weight 70 lb

REFERENCES



6000-Pound, Series 6 Hydraulic Winch WN0281

WINCH, HYDRAULIC, 6000-POUND, SERIES 6

ESSM NUMBER WN0281

DESCRIPTION

The 6000-Pound, Series 6 Hydraulic Winch WN0281 is a portable, general purpose, single-drum unit used with the Submersible 6" Hydraulic Pump System. The winch has a capacity of 6000 pounds and is mounted to one leg of the Tripod PU0284.

SPECIFICATIONS

Manufacturer Warn Industries Inc.
Model Series 6 hydraulic

Rated working load 6000 lb
Winch breaking strength, first layer 12,000+ lb
Maximum wire rope diameter 5/16"

Drum dimensions:

Barrel diameter 2 1/2"
Flange diameter 6"
Distance between flanges 9"
Total gear reduction 26:1

Torque requirement:

Static input torque 415 lb-in. (start maximum load)

Dynamic input torque 365 lb-in. (operate maximum load)

Maximum input flow at rated load 12 gpm Duty cycle rating 258'

PHYSICAL CHARACTERISTICS

Operating/Shipping

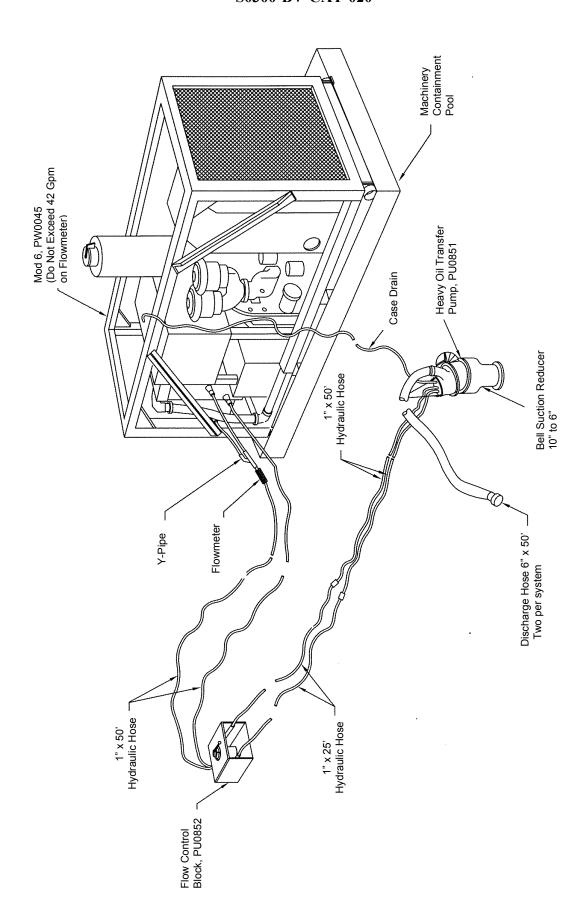
Length	1 ft, 3 in.
Width	1 ft, 9 in.
Height	1 ft, 4 in.
Cube	3 cu ft
Weight	84 lb w/cable

REFERENCES

1. Warn Operators Manual for Series 6 Hydraulic Winch.

Downloaded from http://www.everyspec.com

VISCOUS OIL TRANSFER SYSTEM P13200



Viscous Oil Transfer System P13200

VISCOUS OIL TRANSFER SYSTEM

SYSTEM NUMBER P13200

SYSTEM DESCRIPTION

The Viscous Oil Transfer System P13200 consists of a modified Archimedes' screw-type pump and the necessary ancillary equipment for proper system operation. The system is designed to move highly viscous products at high discharge pressures from casualty vessels. It also aids in moving ballast water, offloading skimmer sumps, and in the recovery of viscous products that have escaped stricken vessels. The system is packaged in one wire basket that serves as a storage/shipping container.

<u>Item</u>		ESSM Number	<u>Qty</u>
1.	Ancillary Set for PU0851:	PU0854	1
	Containment Pool, Machinery, 5' x 5' x 12"	CP3000	1
	Containment Pool, Machinery, 10' x 6' x 12"	CP3010	1
	Pump, Heavy Oil Transfer, DOP-250	PU0851	1
	Hydraulic Flow Control Block for PU0851	PU0852	1
	Hydraulic Flowmeter for PU0851	PU0853	1
2.	Power Unit, Hyd, Mod 6, Diesel, 52 Gpm @ 2500 Psi	PW0045*	1
3.	Spare Parts Kit, For Power Unit PW0045	PW0046*	1

^{*} The Mod 6 Hydraulic Power Unit PW0045 and the Spare Parts Kit PW0046 are required for operation of the Vicious Oil Transfer System P13200. The Mod 6 and Spare Parts Kit are not assigned as part of the Vicious Oil Transfer System P13200. When the Vicious Oil Transfer System is shipped these items will be pulled from ESSM inventory and shipped along with the system.



Ancillary Set PU0854

ANCILLARY SET FOR PU0851

PU0854

DESCRIPTION

The Ancillary Set PU0854 (for PU0851) is a wire mesh container that is used for storage and shipping of the Viscous Oil Transfer System components. The ancillary set contains the items listed below.

SPECIFICATIONS

Manufacturer ESSM Facility

<u>Item</u>	ESSM Number	<u>Qty</u>
Adapter, 6" female camlock to Hydrasearch fitting Adapter, camlock, 6" male to 6" male Adapter, pump base to 6" female camlock Adapter, QD, male to female, -12 to -16 Adapter, QD, male to female, -16 to -12 Adapter, QD, male to female, -4 to -6 Adapter, QD, male to female, -6 to -4 Bleeder set, male & female Bolt, stainless steel, 5/16"-18 x 1 1/2" Cap, 6", camlock Container, wire mesh, 72" x 29" x 42" Container, wire mesh, upper basket, 65" x 24" x 19" Containment Pool, 5' x 5' x 12" Containment Pool, 10' x 6' x 12" Y-connector, hydraulic, w/5600-16-16s couplings Coupling, camlock, 6" female to 6" female Coupling, QD, female half -4 Coupling, QD, female half -12 Coupling, QD, male half -16 Coupling, QD, male half -16 Coupling, QD, male half -16 Elbow, 45°, camlock, 6" Elbow, 90°, camlock, 6"	CP3000 CP3010	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Gasket, camlock rubber, 6" Gasket, rubber, 1/8" - optional (old pumps) Hose assembly, hydraulic, 1" x 50' w/male & female QDs		6 2 4

ANCILLARY SET FOR PU0851

PU0854

SPECIFICATIONS (Contd)

<u>Item</u>	ESSM Number	<u>Qty</u>
Hose assy, hydraulic, 3' w/male QD attached to pump Hose assy, hydraulic, w/female QD attached to pump Hose hydraulic, case drain, 1/4" x 50' w/male & female QDs Hose hydraulic, case drain, 3/8" x 50' w/male & female QDs Hose, 6" x 50' w/male & female camlock fittings (optional) Hose, layflat, 6" x 50' w/camlock (optional) Hose assembly, hydraulic, 1" x 20' w/male & female QDs Hydraulic Flow Control Block, For PU0851 Hydraulic Flowmeter, For PU0851 Inventory, laminated Manual & Parts List for DOP-250 Nut, stainless steel, 5/16" –18 Pad, sorbent Pig, tapered, 6" Pliers, combination Pliers, diagonal cutting	PU0852 PU0853	1 1 3 3 2 2 2 1 1 1 1 18 1 2 1
Plug, 6", camlock Pump, Heavy Oil Transfer, DOP-250 Quick disconnect repair kit -4 Quick disconnect repair kit -12 Quick disconnect repair kit -16 Ratchet strap, 1" Schematic, system setup, Mod 6, laminated Screen, pump suction Sling, 2-point pickup, 3/8" x 3', 6 x 25 IWRC Sling, 4-point w/safety hooks, 3/8" x 5' Spare parts box Stinger, 6" diameter x 4', w/male and female camlock fittings Washers, flat, 5/16", SS Washers, lock, 5/16", SS Wire, seizing, SS, Type, 302L/304	PU0851	1 1 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1

ANCILLARY SET FOR PU0851

PU0854

PHYSICAL CHARACTERISTICS

	Operating/Shipping	
Length	6 ft, 0 in.	
Width	2 ft, 5 in.	
Height	4 ft, 5 in.	
Cube	64 cu ft	
Weight	1590 lb	

REFERENCES



5' x 5' x 12" Machinery Containment Pool CP3000

CONTAINMENT POOL, MACHINERY, 5' x 5' x 12"

ESSM NUMBER CP3000

DESCRIPTION

The Machinery Containment Pool CP3000 is a 5' x 5' x 12" urethane berm. It is used to catch and contain any oil, fuel, or contaminants leaking or spilled from the component placed in the berm.

SPECIFICATIONS

Manufacturer Basic Concepts
Fabric material Cooley Urethane

PHYSICAL CHARACTERISTICS

	Shipping	<u>Operating</u>
Length	1 ft, 8 in.	5 ft, 0 in.
Width	1 ft, 8 in.	5 ft, 0 in.
Height	6 in.	1 ft, 0 in.
Cube	1.5 cu ft	25 cu ft
Weight	34 lb	34 lb

REFERENCES



10' x 6' x 12" Machinery Containment Pool CP3010

CONTAINMENT POOL, MACHINERY, 10 'X 6' X 12", COOLEY URETHANE

CP3010

DESCRIPTION

The 10' x 6' x 12" Machinery Containment Pool CP3010 is a urethane berm. It is used to provide a means of catching and containing any oil, fuel, or contaminants leaking or spilled from the equipment placed in the berm.

SPECIFICATIONS

Manufacturer Basic Concepts
Fabric material Cooley Urethane

PHYSICAL CHARACTERISTICS

	<u>Operating</u>	Shipping
Length	10 ft, 0 in.	1 ft, 8 in.
Width	6 ft, 0 in.	1 ft, 8 in.
Height	1 ft, 0 in.	0 ft, 6 in.
Cube	60 cu ft	1.5 cu ft
Weight	56 lb	34 lb

REFERENCES



Heavy Oil Transfer Pump PU0851

PUMP, HEAVY OIL TRANSFER (DOP-250)

ESSM NUMBER PU0851

DESCRIPTION

The Heavy Oil Transfer Pump PU0851 is a modified Archimedes' screw-type pump that is capable of moving highly viscous products at high discharge pressures. The heavy oil transfer pump is designed to work well at slow operating speeds and can gently handle any medium without mixing or emulsifying the medium.

SPECIFICATIONS

Manufacturer Desmi Model DOP-250

Min. manhole diameter 24"

Pump outlet 6" male camlock

Maximum flow rate 42 gpm Maximum pressure 150 psig Maximum capacity 440 gpm

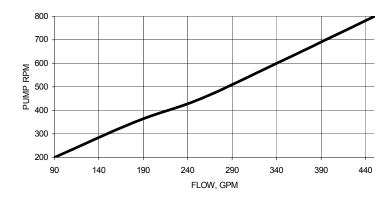
Hydraulic motor Danfoss, Type OMTS-200

Hydraulic connections:

Pressure line 1" Aeroquip coupling, male, 5602-16-16S
Return line 1" Aeroquip coupling, female, 5601-16-16S
Drain line 3/8" Aeroquip coupling, female, 5601-6-6S

PERFORMANCE CURVE

Output depends on pump operating rpm and viscosity of liquid being pumped. This curve applies to heavy fuel oil/water emulsion with 41% water content.



Performance Curve for Heavy Oil Transfer Pump PU0851

PUMP, HEAVY OIL TRANSFER (DOP-250)

ESSM NUMBER PU0851

PHYSICAL CHARACTERISTICS

Length	1 ft, 10 in.
Width	1 ft, 2 in.
Height	1 ft, 7 in.
Cube	3.5 cu ft
Weight	172 lb

REFERENCES

1. Operators Manual for Desmi DOP-250.

Downloaded from http://www.everyspec.com



Hydraulic Flow Control Block PU0852

HYDRAULIC FLOW CONTROL BLOCK FOR PU0851

PU0852

DESCRIPTION

The Hydraulic Flow Control Block PU0852 is designed to control the direction of flow of the hydraulic fluid from the hydraulic power unit (HPU) to the Heavy Oil Transfer Pump PU0851. The Hydraulic Flow Control Block controls neutral, forward, and reverse direction of the pump. The flow control block should not exceed a maximum flow rate of 42 gpm to the Heavy Oil Transfer Pump and is controlled by the speed of the HPU.

SPECIFICATIONS

Manufacturer ESSM Facility

Type Aluminum, single circuit

Hydraulic fluid required Any petroleum based hydraulic fluid

Working pressure 2500 psig Maximum flow rate 42 gpm

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length	1 ft, 3 in.
Width	1 ft, 5 in.
Height	1 ft, 1 in.
Cube	2 cu ft
Weight	31 lb

REFERENCES

None



Hydraulic Flow Control Meter PU0853

HYDRAULIC FLOWMETER FOR PU0851

PU0853

DESCRIPTION

The Hydraulic Flow Control Meter PU0853 is an instrument designed for monitoring and measuring the rate of flow of the hydraulic fluid that is being pumped from an HPU to the hydraulic motor, pump, or other operating equipment.

SPECIFICATIONS

Manufacturer Commercial
Model 0 to 75 gpm
Type In-line

Connections Series -16 male and female quick disconnects

PHYSICAL CHARACTERISTICS

Length 2 ft, 0 in.
Diameter 4 in.
Cube 1 cu ft
Weight 10 lb

REFERENCES

None



Mod 6 Hydraulic Power Unit PW0045

POWER UNIT, HYDRAULIC, MOD 6, DIESEL, 52 GPM @ 2500 PSI

ESSM NUMBER PW0045

DESCRIPTION

The Mod 6 Hydraulic Power Unit (HPU) PW0045 is a portable, diesel driven unit that provides hydraulic flow through two independent circuits. Each circuit is controlled by an independent directional control valve. An adjustable pressure relief valve controls the output pressure delivered to each supply circuit. The total hydraulic output is 52 gpm at a pressure of 2500 psi.

Hydraulic connections utilize 1-inch Aeroquip 5600 series quick disconnect fittings (two male for supply and two female for return).

The HPU is skid-mounted with forklift slots and enclosed in a protective frame with two lifting points.

SPECIFICATIONS

Hydraulic Power Unit Assembly

Manufacturer	Commercial, Navy Design
Drawing number	NAVSEA 5191947

<u>Diesel Engine</u>		Hydraulic Pump	
Manufacturer	Detroit Diesel-Allison	Manufacturer	Commercial Shearing
Series	4-53	Model	Two P30's, tandem
Rpm	2200	Part number	P30B-442-B1-OJ15-25-C-
Нр	87 @ 2200 rpm		OJ15-1
Starting	Hydraulic	Type	Gear
Fuel	Diesel	Oper. press. (max.)	2500 psi
Fuel source	20-gal. internal tank,	Flow	26 gpm each @ 2200 rpm
	with pickup tube	Hyd. reservoir	50 gallons
Fuel consumption	6 gph	Hydraulic fluid	Rando 46

PHYSICAL CHARACTERISTICS

	Operating/Shipping
Length	8 ft, 0 in.
Width	2 ft, 10 in.
Height	4 ft, 10 in.
Cube	120 cu ft
Weight	4400 lb

POWER UNIT, HYDRAULIC, MOD 6, DIESEL, 52 GPM @ 2500 PSI

ESSM NUMBER PW0045

REFERENCES

1. Operation and Maintenance Instructions for the Hydraulic Power Unit, Model 6, NAVSEA Manual S9597-AB-OMP-010.

Downloaded from http://www.everyspec.com



Spare Parts Kit PW0046

SPARE PARTS KIT, FOR POWER UNIT PW0045

ESSM NUMBER PW0046

DESCRIPTION

The Spare Parts Kit PW0046 contains the items necessary to support the operation and maintenance of one Hydraulic Power Unit PW0045.

SPECIFICATIONS

The Spare Parts Kit contains the following:

<u>Item</u>	<u>Qty</u>
Container, Spare Parts Kit, 21" x 16" x 12":	1
Filter, hydraulic	2
Filter, fuel (BF-593)	2
Filter, fuel (BF-592)	2
Filter, engine oil	2
Gasket, thermostat	1
Injector, fuel	2
Manual, Operation and Maintenance, Mod 6 HPU	1
O-ring, Buna rubber	12
O-ring, Teflon	12
Thermostat	1
V-belt	1
V-belt set	1
Inventory, laminated	1

PHYSICAL CHARACTERISTICS

	Operating/Shipping
Length	1 ft, 9 in.
Width	1 ft, 4 in.
Height	1 ft, 0 in.
Cube	2.5 cu ft
Weight	28 lb

REFERENCES

None

Downloaded from http://www.everyspec.com

BOARDING KIT P02100



Boarding Kit System P02100

BOARDING KIT

SYSTEM NUMBER P02100

SYSTEM DESCRIPTION

The Boarding Kit System P02100 is a containerized package of equipment that is intended to allow offloading personnel to safely board a casualty vessel, inspect the ship, and prepare for petroleum, oil, lubricant (POL) offloading or other salvage operations. The system consists of emergency breathing equipment, a gas monitoring meter with calibration kit, tank sounding gear, personnel protective clothing, radios with headsets, drinking water and rations, a four-man nine-foot inflatable boat, non-sparking tools and tool box, a Jacob's ladder, a block and tackle for entering tanks, and a shipping container that doubles as a small personnel shelter/office on the deck of a casualty vessel. Safety equipment is also provided for survival use in case of an emergency.

SYSTEM COMPONENTS

Ite	m	ESSM Number	Qty
1.	Alarm, Personal, Passport	AL0200	1
2.	Breathing Apparatus, Air Pack, w/Tank, 30-Minute	BA0021	4
3.	Boarding Kit, Oil Tanker	BO0543	1
4.	Radio, VHF, Walkie-Talkie, Intrinsically Safe,		
	Icom (96-Channel)	RA1731	4
5.	Headset, Noise Reduction, Series 7000	RA1732	4
6.	Roundsling, Polyester, 16'	SL0012	4
7.	Tape, Gauging, Portable, Electronic, Petroleum & Chemical	TA0010	1
8.	Tool Box, Boarding Kit	TL0080	1
9	Boat, 9', Inflatable	WB0010	1



Passport Personal Alarm AL0200

ALARM, PERSONAL, PASSPORT

ESSM NUMBER AL0200

DESCRIPTION

The Passport Personal Alarm AL0200 when properly used alerts the user to the presence of combustible gases and vapors and to atmospheres that are rich or deficient in oxygen. It also alerts the user to the presence of specific toxic gases when it is equipped with sensors for those gases. These conditions are displayed clearly and simultaneously on the face of the instrument, and the instrument must be used to detect only those specific gases. Other toxic hazards may be present; the Passport Personal Alarm is not intended to detect these other toxic hazards. The personal alarm measures combustible gases and vapors and cannot measure the presence of combustible airborne mist such as lubricating oils.

SPECIFICATIONS

Manufacturer MSA Model FiveStar Sensors Oxygen

> Carbon Monoxide Hydrogen Sulfide

Combination (Nitrogen and Methane)

PHYSICAL CHARACTERISTICS

	Shipping
Length Width	4 ft, 5 in. 6 in.
Height	1 ft, 6 in.
Cube	3.5 cu ft
Weight	34 lb

REFERENCES

- 1. MSA Passport FiveStar Personal Alarm Technical Manual #710440.
- 2. MSA Passport FiveStar Personal Alarm Instruction Manual #710436.
- 3. Calibration Test System Instruction Manual.



Breathing Apparatus BA0021

BREATHING APPARATUS, AIR PACK W/TANK, 30-MINUTE

ESSM NUMBER BA0021

DESCRIPTION

The 30-Minute Air Pack Breathing Apparatus with Tank BA0021 is a 30-minute rated, pressure-demand, self-contained breathing apparatus (SCBA). All components are contained in a bag, which unzips and reverses to become a vest holding the SCBA components.

The SCBA has an airline connection, which allows it to be used as a combination self-contained breathing apparatus/supplied air respirator (SCBA/SAR) thus providing extended operation in hazardous environments.

The air cylinder must be charged with Grade D quality or better breathing air. In Canada refer to CSA Standard Z180.1 (table for the quality of compressed breathing air). The air is supplied to the facepiece from the air cylinder carried in a pouch on the wearer's back by way of a first stage regulator and a pressure-demand valve.

The facepiece attaches to the head by a series of six straps that are pulled sufficiently to seal the facepiece around the face and prevent air leakage. Under normal conditions, a good facial seal will help keep the pressure inside the facepiece higher than the pressure of the external air, thus preventing the external air from entering the facepiece.

SPECIFICATIONS

Manufacturer 3M Model BA-4630

Facepiece color Black with yellow exhalation valve cover grill

Facepiece material Silicone rubber

Facepiece lens material Hard-coated polycarbonate
Bag/vest material Cordura Nylon or Advance Kevlar Nomex

Working pressure 4500 psi Cylinder capacity 45 cu ft

Approved working temperature range -25° to 160° F (-32° to 71° C)

Duration @ 40 lpm 30 minutes

Burst disk pressure 7500 psig (51.6 x 10³ kPa)

Low-pressure audible alarm activation range
NIOSH approval number
SCBA system air flow

1035 - 1215 psig
TC-13F-454
40 lpm

Static pressure range 0.0 - 1.5 iwg (0.0 - 2.8 mm Hg) Positive pressure range 0.0 - 3.5 iwg (0.0 - 6.5 mm Hg)

BREATHING APPARATUS, AIR PACK, W/TANK, 30-MINUTE (CONTD)

ESSM NUMBER BA0021

SPECIFICATIONS (Continued)

Constant flow emergency

bypass 135 lpm @ 2216 psig

 $(4.77 \text{ cfm} \ @ 15.3 \times 10^3 \text{ kPa})$

85 lpm @ 500 psig

Chinning

(3.00 cfm @ 3440 kPa)

Minimum low-pressure

whistle sound level 80 dB(A)

PHYSICAL CHARACTERISTICS

<u>Snipping</u>
2 ft, 2 in.
9 in.
1 ft, 3 in.
2.5, cu ft
26 lb

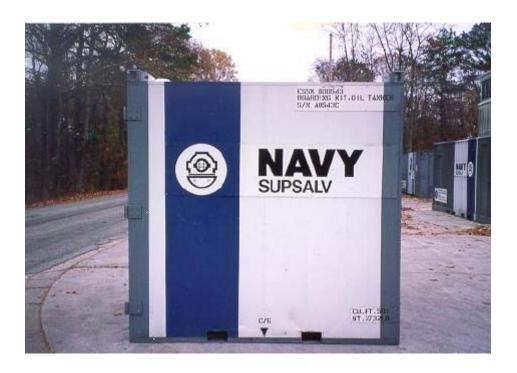
REFERENCES

1. User Instructions for BA-4430, BA-4530, BA-4630, BA-4730.

Downloaded from http://www.everyspec.com



Boarding Kit BO0543 Interior



Boarding Kit BO0543

BOARDING KIT, OIL TANKER

ESSM NUMBER BO0543

DESCRIPTION

The Oil Tanker Boarding Kit BO0543 is a containerized package of equipment that will allow personnel to safely board a casualty vessel to inspect and prepare for petroleum, oil, lubricant (POL) pump offloading and other salvage operations. The equipment is shipped and stored in a boarding kit container van. The contents of the container include emergency breathing equipment, gas monitoring meter with calibration kit, tank sounding gear, personnel protective clothing, radios, water/rations, a four-man nine-foot inflatable boat, non-sparking tools, a Jacob's ladder, and block and tackle for entering tanks. Safety equipment is also provided for survival use in case of an emergency.

SPECIFICATIONS

None

PHYSICAL CHARACTERISTICS

Operating/Shipping	
8 ft, 0 in.	
8 ft, 0 in.	
8 ft, 2 in.	
512 cu ft	
2732 lb	

REFERENCES

1. Fire Suit Donning Instruction Manual.



Intrinsically Safe Walkie-Talkie Radio RA1731

RADIO, VHF, WALKIE-TALKIE, INTRINSICALLY SAFE, ICOM (96-CHANNEL)

ESSM NUMBER RA1731

DESCRIPTION

The Icom 96-Channel, Intrinsically Safe, Walkie-Talkie Radio RA1731 is an all solid-state, VHF-FM hand-held transceiver designed for use in the frequency range of 156.025 MHz to 157.425 MHz. The radio requires an input power of 7.2 V dc for operation, which is supplied by a rechargeable battery pack. RF power is switchable between 5 watts and 1 watt. Features include: on-off/volume control, squelch control, channel selector, high-low power switch, push-to-talk switch, antenna, external speaker-microphone, a transmit indicator and battery charger.

SPECIFICATIONS

Manufacturer Standard Model IC-F30LT

Frequency range:

Marine:

Transmit 156.025 MHz to 157.425 MHz Receive 156.050 MHz to 157.425 MHz

LMR Tx/Rx 1246-147 MHz

Number of channels 96 Input voltage 7.2 V dc

RF output power 5-watts high, 1-watt low

PHYSICAL CHARACTERISTICS

Operating (with antenna installed)

Length 1 ft, 0 in.
Width 2 1/2 in.
Height 2 in.
Cube 1 cu ft
Weight 2 lb

REFERENCES

1. Owner Operator's Manual for the Icom IC-F30LT Radio.



Series 7000 Noise Reduction Headset RA1732

HEADSET, NOISE REDUCTION, SERIES 7000

ESSM NUMBER RA1732

DESCRIPTION

The Series 7000 Noise Reduction Headset RA1732 consists of a noise reducing headset and a voice-activated VOX box and the necessary cables to connect the components. The Series 7000 Noise Reduction Headset is designed to lower the noise level 23 decibels below the ambient noise level when worn properly over the ear. When used in conjunction with the VOX box and a portable transceiver, hands-free, voice -activated radio transmission is possible.

SPECIFICATIONS

<u>Headset</u>		VOX Box	
Manufacturer	David Clark	Manufacturer	David Clark
Model	H7040	Model	V7000
Noise reduction		Attack time	10 milliseconds
rating	23dB	Hold time	0.3 to 1.5 seconds
		Microphone input level	0.14 mV min
		S/N radio for VOX activation	6 dB
		Mic audio to radio transmitter	0 to 12 mV minimum
			At minimum mic
			input level
		PTT switching, lever type	150 mA maximum
			(close from positive
			to ground)
		Audio distortion	4% maximum
		RFI protection	25-900 MHz
		Operating temperature	-30° C to +60° C

PHYSICAL CHARACTERISTICS

	Shipping
Length	11 in.
Width	10 in.
Height	5 in.
Cube	1 cu ft
Weight	1 lb
DEFEDENCES	

REFERENCES

None



16' Polyester Roundslings SL0012 (4 per van)

ROUNDSLING, POLYESTER, 16'

ESSM NUMBER SL0012

DESCRIPTION

The 16' Polyester Roundsling SL0012 is an endless synthetic sling made from a skein (continuous loop or hank) of polyester yarn covered by a double wall tubular jacket. Four 16' Polyester Roundslings are used for lifting the van to which they are assigned, in this case the Oil Tanker Boarding Kit BO0543.

SPECIFICATIONS

Sling		<u>Shackle</u>	
Manufacturer	Lift-All	Manufacturer	Crosby
Model	EN240	Part number	G-209-A
Vertical SWL	21,200 lb	Size	1 in.
Choker SWL	17,000 lb	Working load limit	25,000 lb
Basket SWL	42,400 lb		
Overall length	16 ft, 0 in.		

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length (operating)	16 ft, 0 in.
Cube (coiled for shipping)	4 cu ft
Weight	18 lb

REFERENCES

1. Lift-All 1998 Catalog.



Petroleum & Chemical Electronic Gauging Tape TA0010

TAPE, GAUGING, PORTABLE, ELECTRONIC, PETROLEUM & CHEMICAL

ESSM NUMBER TA0010

DESCRIPTION

The Petroleum & Chemical Electronic Gauging Tape TA0010 consists of an electronic gauging tape on a steel reel, storage case, batteries, and operating and maintenance instructions. The tri-mode portable ullage, temperature, and interface gauging tape incorporates extremely accurate instrumentation to provide petroleum and other liquid tank measurements. The gauging tape provides measurement of surface ullage level of oil and other fluids to an accuracy repeatability of $\pm 1/8$ inch. It determines the exact location of ullage level of the interface layer that exists when an oil-water mixture is contained within the same vessel. The tape also provides measurement in degrees Fahrenheit or degrees Centigrade of the temperature of the fluid within a vessel, at any or several desired ullage levels, in rapid succession. Measurement is given to the nearest 0.1° and is accurate to $\pm 0.5^{\circ}$ F over the calibrated temperature range.

SPECIFICATIONS

Manufacturer	MMC International
Model	D-2401-2
Display readable temperature range	-40°F to 199.9°F
Tape length	100 ft (30 meters)
Guaranteed temperature calibration range	32°F to190°F (0°C to 88°)
Accuracy over calibration range	$\pm 0.5 \text{F} (\pm 0.3^{\circ} \text{C})$
Accuracy linear measurements	$1/8$ " (± 0.3 °mm) plus $\pm 0.1\%$ of total tape length
Minimum detectable tank bottom liquid level	3" (10mm)
Minimum detectable floating product level	1/8" (3 mm)
Display	3 1/2-digit liquid crystal display, 1/2" character
	height
Operating temperature limit of LCD	-40°F to 85°C (ambient)

Shipping

PHYSICAL CHARACTERISTICS

Length	2 ft, 5 in.
Width	8 in.
Height	1 ft, 5 in.
Cube	2.5 cu ft
Weight	18 lb

REFERENCES

1. MMC Operating and Maintenance Instructions.



Oil Tanker Tool Box TL0080

TOOL BOX, OIL TANKER

ESSM NUMBER TL0080

DESCRIPTION

The Oil Tanker Tool Box TL0080 is a basic mechanic's tool set consisting of a non-sparking tool box and non-sparking ratchets, sockets and accessories, wrenches, pliers, hammers and other miscellaneous tools.

SPECIFICATIONS

Manufacturer of tool box Kennedy Manufacturer of tools Ampco

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length 2 ft, 1 in. Width 10 in. Height 10 in. Cube 1.5 cu ft Weight 72 lb

REFERENCES

None



9' Inflatable Boat WB0010

BOAT, 9' INFLATABLE

ESSM NUMBER WB0010

DESCRIPTION

The 9' Inflatable Boat WB0010 is a lightweight, multi-purpose boat. The WB0010 Inflatable Boat is used to transport people, equipment, and supplies. The maximum payload is 700 pounds. The inflatable boat is also used to support various operations where a small lightweight boat is required.

SPECIFICATIONS

Manufacturer	Avon
Model	AV Redcrest
Type	290579
Max. no. persons	4
Max. load capacity	700 lb
Max. horsepower	4
Number of air chambers	2
Hull material	Hypalon/nylon

PHYSICAL CHARACTERISTICS

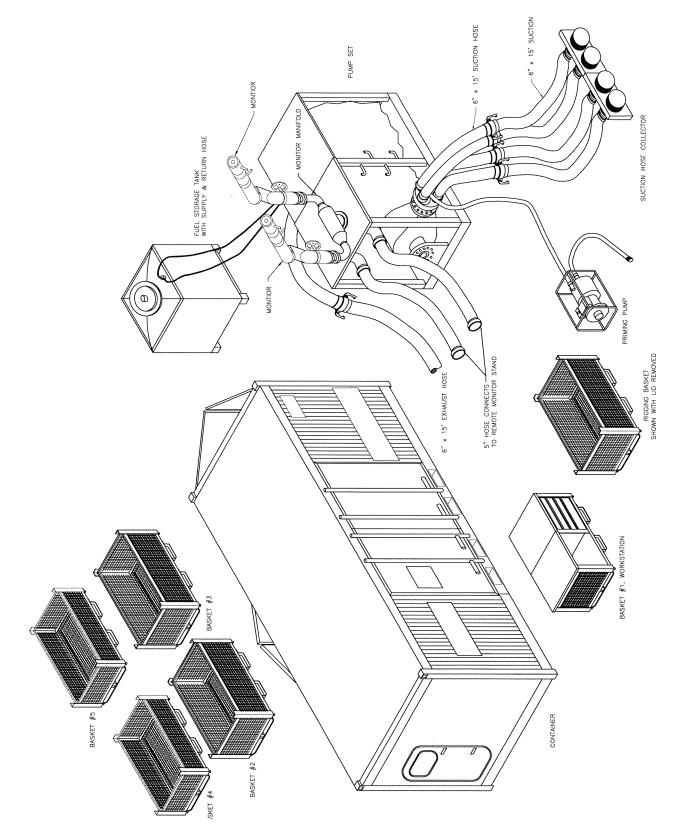
	<u>Operating</u>	Shipping
Length	9 ft, 0 in.	3 ft, 3 in.
Width	4 ft, 10 in.	1 ft, 6 in.
Height	15 in.	1 ft, 1 in.
Cube	45 cu ft	6 cu ft
Weight	40 lb	58 lb

REFERENCE

1. Avon Instruction Manual.

Downloaded from http://www.everyspec.com

PORTABLE FIREFIGHTING SYSTEM P07100



OSFS Overview

FIREFIGHTING SYSTEM (PORTABLE)

SYSTEM NUMBER P07100

SYSTEM DESCRIPTION

The Portable Off-Ship Firefighting System P07100 (OSFS) is a portable firefighting system that has two configurations: a prototype system and a second-generation system.

Both configurations contain a portable, self-contained, diesel driven centrifugal firefighting pump set that is skid-mounted and is capable of delivering 3000 gpm of water at a pressure of 175 psi. The pump sets for both configurations have hydraulic starting systems and a control panel that allows the operator to monitor the operation of the unit. The prototype system has a 350-gallon internal fuel tank for the pump set, while the second-generation system is configured with an external 350-gallon portable stainless steel fuel tank (TK0040) with fittings that will accommodate the fuel pickup tubes for that pump set.

Both systems are supplied with monitors, hoses (suction, discharge, and firefighting), nozzles (1250-gpm and 125-gpm hand-held), proportioners, pickup tubes, and the ancillary equipment needed to successfully fight a fire.

The ancillary equipment for each system is stored inside five ancillary baskets, which are stored in the system van VA0520. The van also provides storage for the pump set, various hoses, lifting slings, and personnel equipment bags.

Both systems also have a rigging basket (FF0501) with various tie-down components, such as turnbuckles, chains, and eyebolts.

The OSFS is designed to supplement a salvage ship's installed firefighting system by providing an additional supply of firefighting water. The system also provides firefighting capabilities for vessels that are otherwise incapable of performing firefighting operations. In addition, the system has Aqueous Film Forming Foam (AFFF) proportioning capabilities. However, the AFFF is not a part of the OSFS system and will have to be provided by the user.

SYSTEM COMPONENTS

<u>Item</u>	ESSM Number	<u>Qty</u>
1. Van, Firefighting System (Portable)	VA0520	1
Dehumidifier, Model SSP-6A	DE0010 (not shown)	1
Pump Set, Centrifugal, Diesel, 3000 gpm @ 175 psi	FF0500	1
Pump, Centrifugal, 2", Diesel	PU2110	1
Roundsling, Polyester, 14' 6"	SL0011 (Altn; not shown)	4
Roundsling, Polyester, 16'	SL0012	4
2. Rigging Basket, OSFS	FF0501	1
3. Tank, Diesel Fuel, 350-Gallon	TK0040	1



Container Van VA0520



Container Van VA0520 Interior

VAN, FIREFIGHTING SYSTEM (PORTABLE)

ESSM NUMBER VA0520

DESCRIPTION

The Portable Firefighting System Van VA0520 is used to store the skid-mounted firefighting pump set and ancillary equipment baskets for the OSFS as listed below. Also stored in the van are water suction and engine exhaust hoses, lifting slings, and personnel equipment bags.

NOTE: Reference ancillary inventory for VA0520 for detailed contents of the equipment baskets.

<u>Item</u>		ESSM Number	<u>Qty</u>
1. Pum	p Set, Centrifugal, Diesel, 3,000 gpm @175 psi	FF0500	1
2. Bask	tet #1, Work station with mechanic's standard and metric tool sets		1
3. Bask	tet #2, Adapters, flanges, collection device, and related hardware		1
4. Bask	tet #3, Adapters, discharge manifold		1
5. Bask	tet #4, Monitors, foam nozzles, 2 1/2-in. adapters, monitor gauges		1
6. Bask	tet #5, 1 1/2-in., 2-in., 5-in. firehose and fuel pickup tubes		1
7. Bag,	personnel equipment		7

SPECIFICATIONS

Manufacturer Commercial

PHYSICAL CHARACTERISTICS

	<u>Prototype</u>	Second-Generation
	Operating/Shipping	Operating/Shipping
	20.0.0.	20.0.0.
Length	20 ft, 0 in.	20 ft, 0 in.
Width	8 ft, 0 in.	8 ft, 0 in.
Height	8 ft, 6 in.	8 ft, 0 in.
Cube	1360 cu ft	1280 cu ft
Weight	22,880 lb	20,720 lb

REFERENCES

1. Operations Manual for Off-Ship Firefighting System.



3000-Gpm Centrifugal Pump FF0500

PUMP SET, CENTRIFUGAL, DIESEL, 3000 GPM @ 175 PSI

ESSM NUMBER FF0500

DESCRIPTION

The Pump Set FF0500 is a portable, self-contained, skid-mounted firefighting unit. It is used aboard salvage ships or other vessels of opportunity and supplements the ship's installed firefighting system by providing additional flow of water and foam proportioning capabilities. The pump set also provides firefighting capabilities for vessels that are otherwise incapable of performing firefighting operations.

The pump set consists of a centrifugal pump, a diesel engine, and skid assembly. The pump is capable of delivering 3000 gpm of water at a pressure of 175 psi. The ancillary equipment for the pump set includes a davit, slings, a 2-inch centrifugal priming pump, and various other components that are contained inside five equipment baskets.

SPECIFICATIONS

Fire Pump Assembly

3.5	T 1	TD 11	0 17 '
Manufacturer	Hischcon	Trading	& Engineering
Manufacturer	1 ISCHCOII	Traumg	& Lingincering

Model Hellbeater

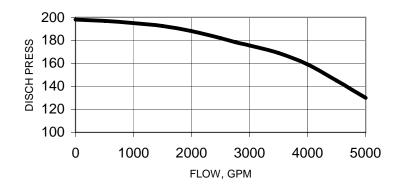
<u>Pump</u> <u>Engine</u>

Manufacturer	Nijhuis	Manufacturer	Volvo-Penta
Model	HGTFD-1-250-500-H	Model	TAMD 122D
Type	Centrifugal	Number of cylinders	6
Capacity	3000 gpm @ 175 psi	Fuel	#2 Diesel

w/20' suction lift Fuel source:

Prototype 350-gal. int. Second-Gen. 350-gal. ext.

DESIGN PERFORMANCE CURVE



PUMP SET, CENTRIFUGAL, DIESEL, 3000 GPM @ 175 PSI

ESSM NUMBER FF0500

	Operating/Shipping Prototype	Operating/Shipping Second-Generation
Length	8 ft, 0 in.	8 ft, 0 in.
Width	4 ft, 0 in.	4 ft, 1 in.
Height	5 ft, 4 in.	5 ft, 8 in.
Cube	170 cu ft	188 cu ft
Weight (dry)	7000 lb	6070 lb

REFERENCES

- 1. Operations Manual for Off-Ship Firefighting System.
- 2. Volvo-Penta Workshop Manual, Pub. No. 5333.
- 3. Volvo-Penta Instruction Book, Pub. No. 7732879-7.

Downloaded from http://www.everyspec.com



2" Centrifugal Pump PU2110

PUMP, CENTRIFUGAL, 2", DIESEL

ESSM NUMBER PU2110

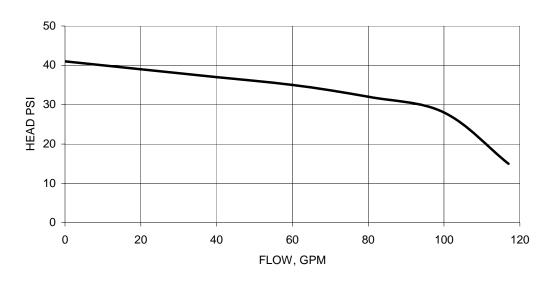
DESCRIPTION

The 2" Centrifugal Pump PU2110 is a diesel driven, centrifugal pump, which is lightweight, rugged, and portable. The pump is used to prime the OSFS and designed to pump water at a rate of 90 gpm with a discharge pressure of 28 psi at a 15-foot lift. Maximum practical suction lift is 26 feet above the water surface. The pump is driven by a 1-cylinder, 4.2-horsepower (at 3600 rpm), air-cooled, 4-cycle, diesel engine. The engine has a recoil starter, direct fuel injection with a variable speed control, and its own integral fuel system.

SPECIFICATIONS

Pump Assembly		Engine	
Manufacturer	Peabody Barnes	Manufacturer	Yanmar Diesel
Model	4280-C	Model	L40AE-DP
Type	Centrifugal	Bore	68 mm
Capacity	115 gpm @ 28 psi,	Stroke	55 mm
	w/15' suction lift	Displacement	199 cc
		Compression ratio	20:1
		Rpm	3600
		Horsepower	4.2
		Fuel	Diesel
		Fuel capacity	0.66-gal. int. tank
		Fuel consumption	0.5 gph

PERFORMANCE CURVE



PUMP, CENTRIFUGAL, 2", DIESEL

ESSM NUMBER PU2110

PHYSICAL CHARACTERISTICS

\sim	. •	/01 •	•
/ N	peratin	$\alpha/\Sigma h_1$	nnina
. ,	DELAIIII	9/3111	פוונונו
\sim	perami	5,0111	PPIIIS

Length	2 ft, 0 in.
Width	1 ft, 6 in.
Height	1 ft, 8 in.
Cube	5 cu ft
Weight	108 lb

REFERENCES

- 1. Yanmar Service Manual for Model L-A Series Engine.
- 2. Yanmar Operations Manual for Model L-A Series Engine.
- 3. Yanmar Diesel Engine Parts Catalog, 51 Pub. No. 000Y00R3981.

Downloaded from http://www.everyspec.com



16' Polyester Roundslings SL0012

ROUNDSLING, POLYESTER, 16'

ESSM NUMBER SL0012

DESCRIPTION

The 16' Polyester Roundsling SL0012 is an endless synthetic sling made from a skein (continuous loop or hank) of polyester yarn covered by a double wall tubular jacket. Four 16' Polyester Roundslings are used for lifting the van to which they are assigned.

SPECIFICATIONS

Sling		<u>Shackle</u>	
Manufacturer	Lift-All	Manufacturer	Crosby
Model	EN240	Part number	G-209-A
Vertical SWL	21,200 lb	Size	1 in.
Choker SWL	17,000 lb	Working load limit	25,000 lb
Basket SWL	42,400 lb	_	
Overall length	16 ft, 0 in.		

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length (operating)	16 ft, 0 in.
Cube (coiled for shipping)	4 cu ft
Weight	18 lb

REFERENCES

1. Lift-All 1998 Catalog.



OSFS Rigging Basket FF0501

RIGGING BASKET, OSFS

ESSM NUMBER FF0501

DESCRIPTION

The OSFS Rigging Basket FF0501 is a metal, wire mesh container used to store and transport the rigging gear for the P07100 Firefighting System. The rigging basket contains turnbuckles, chains, eyebolts, and a 5-gallon plastic bucket used for stowage of eyebolts.

SPECIFICATIONS

Manufacturer Commercial Drawing Number 721460-303-01

The OSFS Rigging Basket contains the following:

	ESSM Number	<u>Qty</u>
Container, Wire Mesh, 62" x 36" x 41"	FF0501	1
Bracket, hanging, steel		2
Bucket, plastic, 5-gallon		1
Chain, 3/8" x 12', grade 4,w/grab & slip hooks		36
Chain, 3/8" x 6', grade 4, w/grab & slip hooks		20
Cover, plywood, marine grade, 3/4" x 36" x 64"		1
Eyebolt, galv, 1 7/8" x 3 5/8" x 1 3/4" x 1"		56
Inventory, laminated		1
Turnbuckle, 1/2" x 9", hook & eye ends		20
Turnbuckle, 3/4" x 12", hook & eye ends		36

PHYSICAL CHARACTERISTICS

	Operating/Shipping	
Length	5 ft, 2 in.	
Width	3 ft, 0 in.	
Height	3 ft, 5 in.	
Cube	53 cu ft	
Weight	1956 lb	

REFERENCES

None



350-Gallon Diesel Fuel Tank TK0040

TANK, DIESEL FUEL, 350-GALLON

ESSM NUMBER TK0040

DESCRIPTION

The 350-Gallon Diesel Fuel Tank TK0040 is a portable, stainless steel container used to provide No. 2 diesel fuel to high flow components such as air compressors and fire fighting systems. The tank is equipped with four lifting pad eyes at the top and forklift slots at the base to facilitate handling. A tank opening with a cap is provided for filling and for attachment of a fuel pickup and return assembly. A ball valve, located on the bottom of the tank, is used to drain fuel from the tank.

SPECIFICATIONS

Manufacturer Hoover Materials Handling Group

Design pressure 9.5 psi

Material Stainless steel Capacity 350 gallons

PHYSICAL CHARACTERISTICS

Operating/Shipping

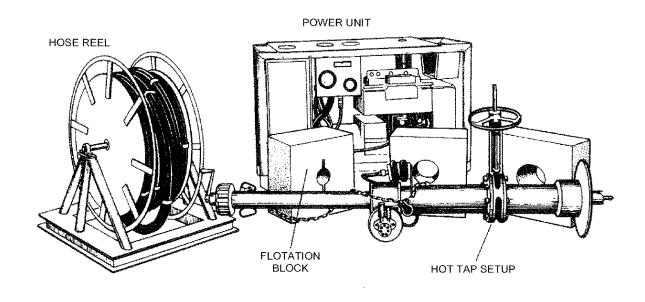
Length	4 ft, 2 in.
Width	3 ft, 6 in.
Height	4 ft, 6 in.
Cube	69 cu ft
Weight (empty)	473 lb
Weight (full)	3033 lb

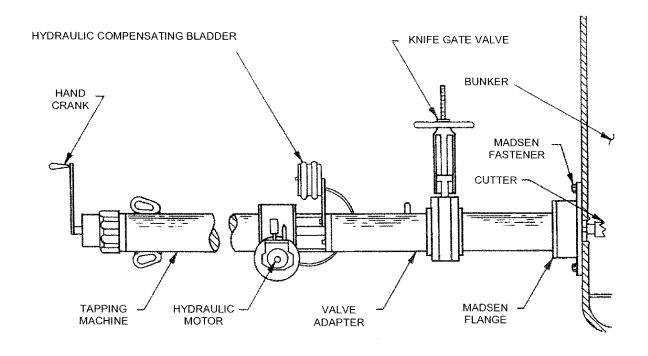
REFERENCES

None

THIS PAGE INTENTIONALLY LEFT BLANK

HOT TAP SYSTEM P10100





Hot Tap System Overview P10100

HOT TAP SYSTEM

SYSTEM NUMBER P10100

SYSTEM DESCRIPTION

The Hot Tap System P10100 consists of two hot tap machines, two heavy duty lightweight hot tap machines, two Mod 2 hydraulic power units, two hydraulic hose reel assemblies, two stud guns, a hydraulic grinder, a hydraulic impact wrench, two 1/2-inch hydraulic drills, a Fluke 87 multimeter, two machinery containment pools, four 16' roundsling bridles, and one container van used for storing and shipping. The Hot Tap System is used underwater by divers to allow oil to be removed from sunken or distressed ships by installing a flange and valve on the side of the ship's hull or tank through which oil can be discharged. This can be accomplished without spilling the oil or admitting water into the tank. When the equipment is in an operating configuration, the storage/shipping container serves as a maintenance shop and personnel shelter.

SYSTEM COMPONENTS

<u>Ite</u>	<u>m</u>	ESSM Number	<u>Qty</u>	
1.	Van, Hot Tap HVAC Unit w/Sleeve	VA0736A AC2001	1 1	
	Containment Pool, Machinery, 10 'x 6' x 12", Cooley Urethane	CP3010	2	
	Drill, Hydraulic, 1/2"	DR0010	2	
	Gun, Stud, Hot Tap Systems	GU0120	2	
	Hose Reel Assembly, Hydraulic, w/ 3/4" Synflex Hose	HS0137	2	
	Hot Tap, Lightweight, Heavy Duty	HT0006	2	
	Machine, Hot Tap	MC0110	2	
	Power Unit, Hydraulic, Mod 2, Diesel, 15 gpm @ 2000 psi	PW0108	2	
	Multimeter, RMS True, Fluke 87	SE0853	1	
	Roundsling, Polyester, 16'	SL0012	4	
	Grinder, Hydraulic	TL1000	1	
	Wrench, Impact, Hydraulic	TL1010	1	
2.	Van, Hot Tap	VA0736B	1*	
	HVAC Unit w/Sleeve	AC2001	1	
	Containment Pool, Machinery, 10 'x 6' x 12", Cooley Urethane	CP3010	2	
	Drill, Hydraulic, 1/2"	DR0010	2	
	Gun, Stud, Hot Tap Systems	GU0120	2	
	Hose Reel Assembly, Hydraulic, w/ 3/4" Synflex Hose	HS0137	2	
	Hot Tap, Lightweight, Heavy Duty	HT0006	2	
	Machine, Hot Tap	MC0110	2	
	Power Unit, Hydraulic, Mod 2, Diesel, 15 gpm @ 2000 psi	PW0108	2	
	Multimeter, RMS True, Fluke 87	SE0853	1	

SYSTEM COMPONENTS (Contd)

<u>Item</u>	ESSM Number	<u>Qty</u>
Roundsling, Polyester, 16'	SL0012	4
Grinder, Hydraulic	TL1000	1
Wrench, Impact, Hydraulic	TL1010	1

^{*}Alternate ESSM configurations are functionally equivalent and are not shown in the catalog.

Downloaded from http://www.everyspec.com



Hot Tap Van VA0736A



Hot Tap Van VA0736A (Interior)

VAN, HOT TAP

ESSM NUMBER VA0736A

DESCRIPTION

The Hot Tap Van VA0736 is used as a storage/shipping container for the components of the Hot Tap System, which include two Hydraulic Power Units PW0108, two Hot Tap Machines MC0110, two Stud Guns GU0120, various hydraulic hose assemblies, and the necessary equipment to maintain and operate the Hot Tap System. When the equipment is in an operating configuration, the shipping container serves as a maintenance shop and personnel shelter. The van has a heat pump for climate control, a workbench, and the necessary tools for maintaining the equipment.

SPECIFICATIONS

Manufacturer Commercial

PHYSICAL CHARACTERISTICS

	Shipping
Length	20 ft, 0 in.
Width	8 ft, 0 in.
Height	8 ft, 0 in.
Cube	1280 cu ft
Weight	17,712 lb

REFERENCES

None





HVAC Unit w/Sleeve AC2001

HVAC UNIT W/ SLEEVE

ESSM NUMBER AC2001

DESCRIPTION

The HVAC Unit w/Sleeve AC2001 is a 12,000-BTU through-the-wall air conditioner and heat pump. It is designed to maintain a comfortable ambient atmosphere in the van.

SPECIFICATIONS

Manufacturer	Frigidaire
Model	FAH12EJ2T
BTU	12,000
Volts	230 V ac

PHYSICAL CHACTERISTICS

	Operating/Shipping
Length	2 ft, 0 in.
Width	1 ft, 7 in.
Height	1 ft, 3 in.
Cube	4 cu ft
Weight	104 lb

REFERENCES

- 1. Frigidaire Installation Instruction 309000911.
- 2. Frigidaire Owner's Guide 309000823.

Downloaded from http://www.everyspec.com

ESSM Number CD0010 Deleted.



10 'x 6' x 12" Machinery Containment Pool CP3010

CONTAINMENT POOL, MACHINERY, 10 'X 6' X 12", COOLEY URETHANE

ESSM NUMBER CP3010

DESCRIPTION

The 10 'x 6' x 12" Machinery Containment Pool CP3010 is a urethane berm. It is used to provide a means of catching and containing any oil, fuel, or contaminants leaking or spilled from the diesel hydraulic power unit or other equipment.

SPECIFICATIONS

Manufacturer Basic Concepts
Fabric material Cooley Urethane

PHYSICAL CHARACTERISTICS

	<u>Operating</u>	<u>Shipping</u>
Length	10 ft, 0 in.	1 ft, 8 in.
Width	6 ft, 0 in.	1 ft, 8 in.
Height	1 ft, 0 in.	6 in.
Cube	60 cu ft	1.5 cu ft
Weight	56 lb	34 lb

REFERENCES

None



1/2" Hydraulic Drill DR0010

DRILL, HYDRAULIC, 1/2-INCH

ESSM NUMBER DR0010

DESCRIPTION

The 1/2-Inch Hydraulic Drill DR0010 is designed for underwater use and is equipped with a 1/2-inch smooth jawed adjustable chuck capable of holding drill bits with a shaft size of 1/2-inch in diameter.

SPECIFICATIONS

Manufacturer	Stanley
Model	DL09
Drive size	1/2"

Hydraulic pressure range 1000 - 2000 psi Flow range 4 - 12 gpm Optimum flow 8 gpm

Porting -8 SAE O-ring Drill speed 1000 rpm @ 8 gpm

Rpm range 350 - 1500

PHYSICAL CHARACTERISTICS

	<u>Operating</u>
Length	9 in.
Width	3 1/2 in.
Height	6 in.
Cube	1 cu ft
Weight	6 lb

REFERENCES

1. Hydraulic Drill DL09 Safety, Operation, and Maintenance Manual.



Stud Gun GU0120

GUN, STUD, HOT TAP SYSTEM

ESSM NUMBER GU0120

DESCRIPTION

The Hot Tap System Stud Gun GU0120 is a direct-acting, high-velocity, underwater marine, powder-actuated tool that can be used by divers in water depths to 300 feet. The gun utilizes energy from a special expendable barrel to drive a fastener into steel or concrete. Fasteners are loaded into the expendable barrels prior to entering the water. Once the diver is in the water, the barrel is inserted in the gun and fired. The fastener is driven at a high velocity down the barrel by the expanding gases of the fired load into the work surface. The used barrel is removed and a new barrel is inserted for the next fastening. The stud gun is designed to allow up to four fastenings a minute.

SPECIFICATIONS

Manufacturer I.T.W. Ramset

Model 200 HD Caliber .38 Max. depth to use gun 300 ft

Velocity of fasteners 492 feet per second

PHYSICAL CHARACTERISTICS

	Shipping
Length	1 ft, 7 in.
Width	9 in.
Height	11 in.
Cube	1 cu ft
Weight	25 lb

REFERENCES

1. Ramset 200 HD Tool Operator's Instructions and Training Manual, TM-21, 5/88.



Hose Reel HS0137

HOSE REEL ASSEMBLY, HYDRAULIC, W/ 3/4" SYNFLEX HOSE

ESSM NUMBER HS0137

DESCRIPTION

The Hydraulic Hose Reel Assembly HS0137 consists of a 3/4-inch diameter braided lined Synflex hose, which is reeled onto a mechanical hose reel in two, 100-foot continuous sections. The hose is equipped with quick disconnect fittings compatible with the Hydraulic Power Unit PW0108. A separate set of 15-foot hose assemblies are used to couple the hoses and the power source to each other.

SPECIFICATIONS

Manutacturer	Commoratol
Manufacturer	Commercial
1 Tallalactalel	Commercial

Hose

Manufacturer	Furon Synflex
Type	3R80-12
Inner diameter	3/4 in.
Max. outer diameter	1.138 in.
Min. bend radius	6.5 in.
Working pressure	2250 psi
Min. burst pressure	9000 psi
Weight per 100 feet	25.6 lb
Hose couplings	390 H-12

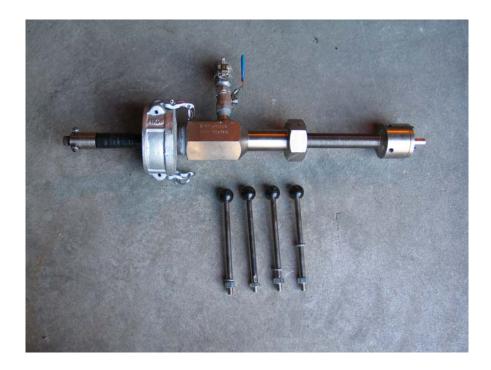
PHYSICAL CHARACTERISTICS

(U	р	er	a	tı	n	g	/5	h	1	p	p	1	n	g

Length	3 ft, 10 in.
Width	2 ft, 9 in.
Height	3 ft, 11 in.
Cube	41 cu ft
Weight	630 lb

REFERENCES

- 1. Synflex Hydraulic Hose, Specialty Hose, Tubing, and Accessories; Furon Synflex.
- 2. Reel, 3/4" Hose, Hydraulic NAVSEA Dwg. 5366582.



Heavy Duty, Lightweight Hot Tap HT0006

HOT TAP, LIGHTWEIGHT, HEAVY DUTY

ESSM NUMBER HT0006

DESCRIPTION

The Heavy Duty, Lightweight Hot Tap HT0006 has the capability of tapping into mild steel hull plating up to 1 inch thick. The hot tap machine is used to tap a 3 1/2 or a 5 1/2-inch hole through a 6-inch knife valve.

The flange/valve assembly through which the tap is accomplished is available in two configurations, a flat surface plate and a contour-forming plate. The flat surface plate is 12 inches in diameter with a 12-inch bolt hole pattern on a 10-inch bolt circle. This plate is used for flat shell or tank top applications. The contour forming plate has a 12-inch by 4-inch base with serrated tabs perpendicular to the base. These tabs can be formed to the contour of the hull.

SPECIFICATIONS

Manufacturer Easy Tapper
Model XTC 1.7S
Standard tapping range in kit 3 1/2" or 5 1/2"
Pressure rating 1470 psi @ 100° F

Method of applied

forward pressure Spindle

Type of machine-to-

valve adapters National Pipe Thread

Power pack for cutter rotation Ready for electric, air, or hydraulic power package

Shinning

PHYSICAL CHARACTERISTICS

	Simpping
Length	2 ft, 6 in.
Width	11 in.
Height	6 in.
Weight	29 lb
Cube	1 cu ft

REFERENCES

None



Hot Tap Machine MC0110

MACHINE, HOT TAP

ESSM NUMBER MC0110

DESCRIPTION

The Hot Tap Machine MC0110 is capable of cutting 5 1/2-inch diameter hole in up to 1-inch thick mild steel plate. The machine is lightweight (with the bulk of its weight concentrated toward the cutter head) and has an adjustable automatic feed rate. These features promote relative ease of handling and operation by divers. The hardware in the kit can restrict the cutting capability to 1-inch plate and 6-inch nominal diameters. The drive motor for the hot tap machine is a hydraulic motor.

SPECIFICATIONS

Manufacturer	T.D. Williams, Inc.

Model T-203
Max. operating pressure 1500 psi
Working pressure 600 - 800 psi
Flow rate 15 gpm
Max. boring bar travel 36"

Rate of travel Adjustable: 0 to 1/8" per revolution

Nominal cutter size 5 1/2"

Pilot size 3/4" diameter

PHYSICAL CHARACTERISTICS

	<u>Operating</u>	
Length	5 ft, 3 in.	
Width	2 ft, 2 in.	
Height	1 ft, 6 in.	
Cube	15 cu ft	
Weight	258 lb	

REFERENCES

1. T.D. Williams, Inc. Maintenance and Operation Manual, Salvage Hot Tap Kit, NAVCOSSYSCUT, Panama City, FL, May 1978.



Mod 2 Hydraulic Power Unit PW0108

POWER UNIT, HYDRAULIC, MOD 2, DIESEL, 15 GPM @ 2000 PSI

ESSM NUMBER PW0108

DESCRIPTION

The Mod 2 Hydraulic Power Unit PW0108 is a portable, diesel driven unit that provides hydraulic fluid up to 15 gpm @ 2000 psi. An adjustable pressure relief valve controls the output pressure delivered to the supply circuit. The HPU is mounted on a steel frame equipped with forklift slots and lifting points for handling during shipment and operation. Hydraulic connections are made via Aeroquip 5600, -12 series male and female quick disconnect fittings for the hydraulic supply and return, with a 3/8-inch case drain fitting. The unit is shipped with the exhaust muffler attached to the side of the HPU housing, and the muffler is installed prior to operation of the unit.

SPECIFICATIONS

Hydraulic Power Unit Assembly

Manufacturer	Commercial, Navy Design
Model	NAVSEA Model 2

Diesel Engine Hydrauli

Manufacturer	Onan	Manufacturer	Vickers Inc.
Series	DJC-MS/2450	Model	30-H-10
Rpm	2400	Type	Axial piston
Horsepower	23.8 @ 2400 rpm	Flow (maximum)	15 gpm @ 2000 psi
Starting	Electric, 12-volt	Hyd. reservoir	55 gal.
Fuel	Diesel	Hydraulic fluid	Rando 46
Fuel course	Internal tents 20 gal	•	

Fuel source Internal tank, 20-gal. Fuel consumption 1.5 gph @ 2000 rpm

PHYSICAL CHARACTERISTICS

Weight (dry)

	Operating/Shipping
Length	5 ft, 8 in.
Width	2 ft, 0 in.
Height	3 ft, 8 in.
Cube	42 cu ft

1762 lb

POWER UNIT, HYDRAULIC, MOD 2, DIESEL, 15 GPM @ 2000 PSI

ESSM NUMBER PW0108

REFERENCES

1. Operation and Maintenance Instructions, Diesel Hydraulic Power Unit, NAVSEA Model 2, S9233-A-3-MM0-01B-0910-LP-000-4092.

Downloaded from http://www.everyspec.com



Fluke 87 Multimeter SE0853

MULTIMETER, TRUE-RMS, FLUKE 87

ESSM NUMBER SE0853

DESCRIPTIONS

The Fluke 87 Multimeter SE0853 is an electronic instrument used to make various electrical measurements, such as ac and dc voltage, ac and dc current, and resistance. It is called a *multi*meter because it combines the functions of a voltmeter, ammeter, and ohmmeter. The multimeter has other functions, such as diode and continuity testing capabilities.

SPECIFICATIONS

Manufacturer	Fluke
Model	87
Display	Digital

Maximum voltage:

DC V 1000 V AC V 1000 V

Maximum Amps:

Temperature:

Operating -4°F to 131°F Storage -40°F to 140°F Battery 9 V, zinc Battery life 400 hrs typical

PHYSICAL CHARACTERISTICS

Operating w/flex stand
7 1/2 in.
3 1/2 in.
1 1/4 in.
.5 cu ft
12.5 oz

REFERENCE

1. Fluke 80 Series Multimeter User's Manual.



16' Polyester Roundslings SL0012 (4 per van)

ROUNDSLING, POLYESTER, 16'

ESSM NUMBER SL0012

DESCRIPTION

The 16' Polyester Roundsling SL0012 is an endless synthetic sling made from a skein (continuous loop or hank) of polyester yarn covered by a double-wall tubular jacket. Each sling is supplied with a 1-inch screw pin-type shackle. Four 16' Polyester Roundslings are used for lifting the van to which they are assigned.

SPECIFICATIONS

Sling		<u>Shackle</u>	
Manufacturer	Lift-All	Manufacturer	Crosby
Model	EN240	Part number	G-209-A
Vertical SWL	21,200 lb	Size	1 in.
Choker SWL	17,000 lb	Working load limit	25,000 lb
Basket SWL	42,400 lb		
Overall length	16 ft, 0 in.		

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length (operating)	16 ft, 0 in.
Cube (coiled for shipping)	4 cu ft
Weight	18 lb

REFERENCES

1. Lift-All 1998 Catalog.



Hydraulic Grinder TL1000

GRINDER, HYDRAULIC

ESSM NUMBER TL1000

DESCRIPTION

The Hydraulic Grinder TL1000 is a hydraulically driven rotary device that uses a wheel made of an abrasive material to clean, grind, polish, and shape metallic materials. It is designed for underwater use.

SPECIFICATIONS

Manufacturer Stanley Hydraulic Tools

Model GR24

Pressure range 1000-2000 psi Flow range 7-9 gpm Optimum flow 9 gpm Porting 3/8" pipe

PHYSICAL CHARACTERISTICS

Length	17 in.
Width	9 in.
Height	9 in.
Cube	1 cu ft

REFERENCE

Weight

1. Stanley Model GR24 Hydraulic Grinder Parts Manual.

11 lb

Operating



Hydraulic Impact Wrench TL1010

WRENCH, IMPACT, HYDRAULIC

ESSM NUMBER TL1010

DESCRIPTION

The Hydraulic Impact Wrench TL1010 is a rotary hammer that impacts the head of a nut or bolt to either loosen or tighten it and is designed for use underwater.

SPECIFICATIONS

Manufacturer Stanley Hydraulic Tools

Model IW12

Pressure range 1000-2000 psi Flow range 4 1/2 gpm

Output speed (free spin) 2000 rpm @ 5 gpm Impact speed 1200 impacts per minute

Porting 1/2" SAE

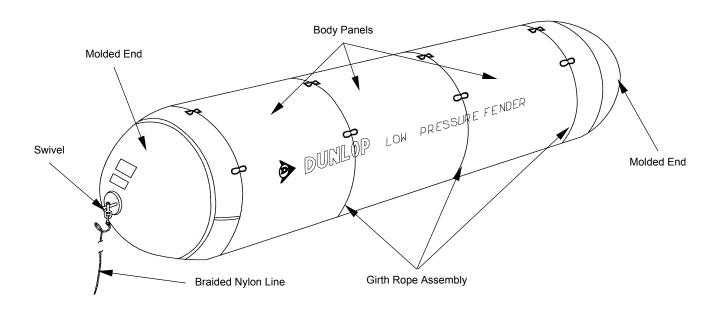
Output drive 3/4" square drive

REFERENCE

1. Stanley Model IW12 Hydraulic Impact Wrench Parts Manual.

Downloaded from http://www.everyspec.com

10' X 50' LOW PRESSURE FENDER SYSTEM P06100



Molded End Low Pressure Fender



10' x 50' Low Pressure Fender System P06100

FENDER SYSTEM, LOW PRESSURE, 10' X 50'

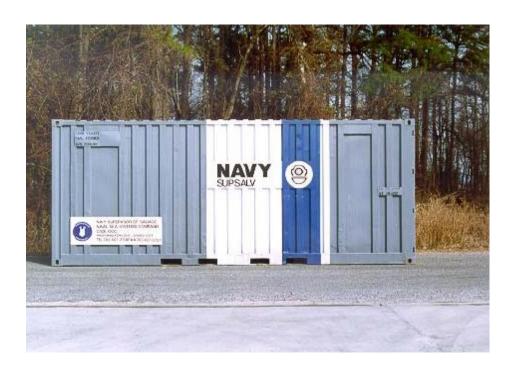
SYSTEM NUMBER P06100

SYSTEM DESCRIPTION

The 10' x 50' Low Pressure Fender System P06100 consists of a 20-foot van, which stores four 10' x 50', low pressure ship fenders. The fenders are designed to allow supporting vessels or receiving tankers to moor alongside casualty vessels for offloading operations in moderate seas without risking hull damage.

SYSTEM COMPONENTS

<u>Item</u>		ESSM Number	<u>Qty</u>
1.	Van, Low Pressure Fender System	VA2221	1
	Fender, Low Pressure, 10' x 50'	FN2071	4
	Roundsling Bridle, Polyester, 16'	SL0012	4



Low Pressure Fender System Van VA2221



Interior of Low Pressure Fender System Van VA2221

VAN, LOW PRESSURE FENDER SYSTEM

ESSM NUMBER VA2221

DESCRIPTION

The Low Pressure Fender System Van VA2221 is used to store and ship the four deflated pneumatic ship fenders used in the Low Pressure Fender System P06100. The fenders are secured to individual pallets, which are in turn secured inside of the van, along with all the necessary ancillary equipment. The ancillary equipment consists of a repair kit, an inflation connector, a pressure gauge, towing and mooring lines, and assembly parts.

SPECIFICATIONS

Manufacturer Commercial

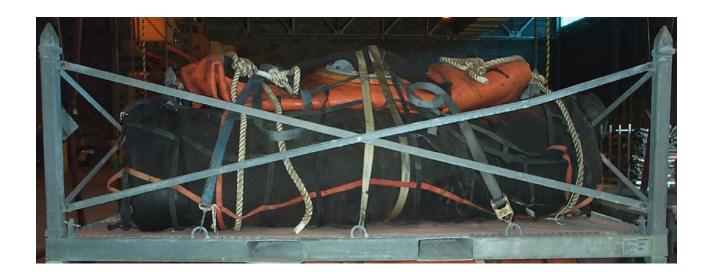
PHYSICAL CHARACTERISTICS

Operating/Shipping

Length	20 ft, 0 in.
Width	8 ft, 0 in.
Height	8 ft, 0 in.
Cube	1280 cu ft
Weight	19,432 lb
***************************************	1,,.5=10

REFERENCES

None



10' x 50' Low Pressure Fender FN2071

FENDER, LOW PRESSURE, 10' x 50'

ESSM NUMBER FN2071

DESCRIPTION

The 10' x 50' Low Pressure Fender FN2071 is a low pressure pneumatic fender designed to be placed alongside a casualty vessel to allow support vessels or receiving tankers to moor alongside in moderate seas without the risk of hull damage occurring during offloading operations.

SPECIFICATIONS

Manufacturer	Dunlop
Model	C3515
Length - inflated	50 feet
Diameter - inflated	10 feet
Weight (w/specified ancillaries)	2370 lb
Reaction load (max. at 50% compression)	200 tons (long)
Energy absorption (max. at 50% compression)	236 ft-tons (long)

PHYSICAL CHARACTERISTICS

<u>Fender</u>	<u>Operating</u>	Pallet & Fender	Shipping
Length	50 ft 0 in.	Length	9 ft, 0 in.
Diameter	10 ft, 0 in.	Width	8 ft, 2 in.
Cube	5000 cu ft	Height	3 ft, 5 in.
Weight	2370 lb (Empty)	Cube	253 cu ft
		Weight	3720 lb

REFERENCES

1. Fenders, Low Pressure, Marine Pneumatic, 10' x 50' and 14' x 60', Model Nos. C3515 and C3516.



16' Polyester Roundslings SL0012 (4 per van)

ROUNDSLING, POLYESTER, 16'

ESSM NUMBER SL0012

DESCRIPTION

The 16' Polyester Roundsling SL0012 is an endless synthetic sling made from a skein (continuous loop or hank) of polyester yarn covered by a double wall tubular jacket. Four 16' Polyester Roundslings are used for lifting the van to which they are assigned.

SPECIFICATIONS

Sling		<u>Shackle</u>	
Manufacturer	Lift-All	Manufacturer	Crosby
Model	EN240	Part number	G-209-A
Vertical SWL	21,200 lb	Size	1 in.
Choker SWL	17,000 lb	Working load limit	25,000 lb
Basket SWL	42,400 lb	C	•
Overall length	16 ft, 0 in.		

PHYSICAL CHARACTERISTICS

Operating/Shipping

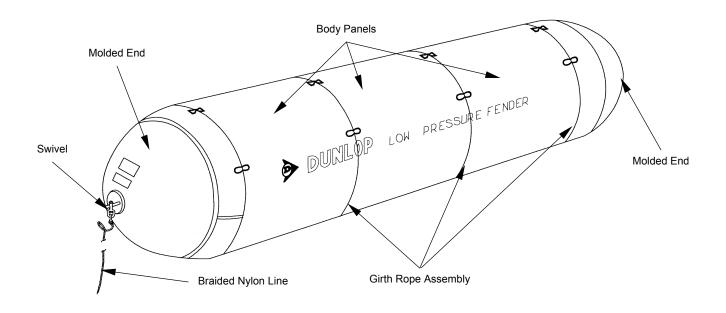
Length (operating)	16 ft, 0 in.
Cube (coiled for shipping)	4 cu ft
Weight	18 lb

REFERENCES

1. Lift-All 1998 Catalog.

Downloaded from http://www.everyspec.com

14' x 60' LOW PRESSURE FENDER SYSTEM P06200



Molded End Low Pressure Fender



14' x 60' Low Pressure Fender System P06200

FENDER SYSTEM, LOW PRESSURE, 14' X 60'

SYSTEM NUMBER P06200

SYSTEM DESCRIPTION

The 14' X 60' Low Pressure Fender System P06200 consists of four 14' x 60' pneumatic fenders that are arranged on shipping pallets. The fenders allow support vessels or receiving tankers to moor alongside a casualty vessel in moderate seas without the risk of hull damage.

SYSTEM COMPONENTS

<u>Item</u>	ESSM Number	<u>Qty</u>
1. Fender System, Low Pressure, 14' x 60'	FN2072	4



14' x 60' Low Pressure Fender FN2072

FENDER, LOW PRESSURE, 14' X 60'

ESSM NUMBER FN2072

DESCRIPTION

The 14' X 60' Low Pressure Fender FN2072 is a low pressure, pneumatic fender designed to allow support vessels or receiving tankers to moor alongside casualty vessels in moderate seas without the risk of hull damage occurring during offloading.

SPECIFICATIONS

Manufacturer	Dunlop
Model	C3516
Reaction load (max. at 50% compression)	290 tons (long)
Energy absorption (max. at 50% compression)	517 ft-tons (long)

PHYSICAL CHARACTERISTICS

	<u>Operating</u>		Shipping
Length inflated	60 ft, 0 in.	Length	11 ft, 0 in.
Diameter inflated	14 ft, 0 in.	Width	8 ft, 0 in.
Cube	8518 cu ft	Height	4 ft, 0 in.
Weight	3124 lb	Cube	352 cu ft
-		Weight w/pallet	5130 lb

REFERENCES

1. Fenders, Marine Pneumatic, Low Pressure, 10' x 50' and 14' x 60', Model Nos. C3515 and C3516.

Downloaded from http://www.everyspec.com

MODULAR BARGE SYSTEM P06400



Barge Modules for BA0005



Supersectional Barge Assembly (two single sectional assemblies)

MODULAR BARGE SYSTEM

SYSTEM NUMBER P06400

SYSTEM DESCRIPTION

The Modular Barge System P06400 consists of a 24' x 16' x 4' Modular Barge BA0005 and a complete set of ancillary gear, tools, and rigging equipment.

The Modular Barge System is designed to allow for two configurations that meet various operational conditions; a single sectional barge assembly and a supersectional barge assembly. The single sectional barge assembly consists of a Modular Barge BA0005, which is composed of two 24' x 8' x 4' modules fastened together. The operational supersectional barge assembly consists of two BA0005 Modular Barges that are assembled stern-to-stern.

The Modular Barge System is designed to be used in remote locations that do not provide sufficient equipment or accessibility to properly conduct an oil spill response operation. The barge decks accommodate the storage and assembly of oil response equipment. The Modular Barge System P06400 may be used in conjunction with the Oil Bladder Transfer System P20300.

SYSTEM COMPONENTS

<u>Item</u>	ESSM Number	<u>Qty</u>
1. Barge, Modular, 24' x 16' x 4'	BA0005	1



Barge Modules for BA0005

BARGE, MODULAR, 24' X 16' X 4'

ESSM NUMBER BA0005

DESCRIPTION

The Modular Barge BA0005 is a 24' x 16' x 4' work platform that is used in remote locations that do not provide sufficient equipment or accessibility for properly conducting an oil spill response operation. The barge consists of two 24' x 8' x 4' barge modules mated side by side. The barge decks accommodate the storage and assembly of oil response equipment.

SPECIFICATIONS

Manufacturer Kvichak

Hull material 5000 series aluminum

Draft 1' 4" Freeboard 2' 3"

Watertight compartments 4 (per module)
Deck drains 5 (per module)

PHYSICAL CHARACTERISTICS

	Shipping (single module)	Operating (two modules)
Length	24 ft, 0 in.	24 ft, 0 in.
Width	8 ft, 0 in.	16 ft, 0 in.
Height	4 ft, 0 in.	4 ft, 0 in
Cube	768 cu ft.	1536 cu ft
Weight	4600 lb	9200 lb

REFERENCES

None

Downloaded from http://www.everyspec.com

ROV LIGHTERING SYSTEM

SYSTEM NUMBER P10200

DESCRIPTION

The Remote Operated Vehicle (ROV) Lightering System P10200 consists of an ROV delivery unit, a hydraulically driven hot tap machine, a set of attachment flanges, a set of attachment tools, a set of valves and fittings, a hydraulic power unit and a 8' x 8' x 20' shipping container. The system is designed to allow penetration into tanks below the waterline and to be deployed by an ROV. During some operational scenarios it is necessary to gain access to tanks in deep water. Access through tank sides necessitates the use of a drilling mechanism called a hot tap machine delivered by an ROV. The ROV Lightering System is used to install a flange and valve on the side of a ship's hull or tank through which oil can be discharged. The hot tap is used in deep water operations to allow oil to be removed from sunken ships. This is accomplished without spillage of oil or ingress of water into the tank. On scene, with the equipment in the operating configuration, the shipping container serves as a maintenance shop, personnel shelter and ROV control center.

SYSTEM UNDER DEVELOPMENT

Downloaded from http://www.everyspec.com

COMMAND TRAILER P19400



Command Trailer System P19400

COMMAND TRAILER

SYSTEM NUMBER P19400

SYSTEM DESCRIPTION

The Command Trailer System P19400 is an over-the-road command and communications office for field operations. These 40-foot trailers are equipped to provide on-site telephone and radio communications, office space and equipment, a small conference area, a galley, a generator, and head facilities, as well as heated/air conditioned shelter from the environment. The trailer provides a portable, fully equipped command post from which to direct extended field response operations where road transport is available.

A major offshore spill may impact hundreds of miles of shoreline. When this occurs, several command posts must be established to coordinate response in the many sub-areas where response work is being accomplished. Two command trailers on each U.S. coast and one in Alaska are required to support large or concurrent operations. The requirement for additional sub-area command posts on major spill response operations is met by deployment of the command vans or locally leased trailers if necessary.

Several slightly different configurations of the Command Trailer are available in the ESSM System. The primary Command Trailer System is the one containing VA0719. The alternate configurations (VA0717 and VA0718) differ slightly in their components, performance characteristics, and ancillary equipment, but are functionally equivalent.

SYSTEM COMPONENTS

<u>Item</u>	ESSM Number	<u>Qty</u>
1. Command Trailer		1
a. Van, Command Trailer, 45'	VA0717	1
Printer, Multifunction	CO1306	1
Containment Pool, Mchry, 10 'x 6' x 12"	CP3010	1
Generator, 25-kW, Dsl, Model CI4J-25	GE0440	1
Refrigerator, 6.0 Cubic Foot	OE0001	1
Marker Board w/Sliding Board	OE0111	1
TV/VCR Combo	OE2099	1
Radio, CB, Marine Mobile	RA1709	1
Radio, VHF, Marine Mobile, Icom (58-Channel)	RA1831	1
Tool Box, Command Trailer VA0717	TL0041	1

COMMAND TRAILER

SYSTEM NUMBER P19400

SYSTEM COMPONENTS (Contd)

<u>Item</u>	ESSM Number	<u>Qty</u>
b. Van, Command Trailer, 40', Modified	VA0718	1
Printer, Multifunction	CO1306	1
Containment Pool, Mchry, 10 'x 6' x 12"	CP3010	1
Generator, 25-kW, Dsl, Model CI4J-25	GE0440	1
Kitchenette, Sink/Range/Refrigerator/Cabinet Unit	KI0011	1
Radio, CB, Marine Mobile	RA1709	1
Radio, VHF, Marine, Motorola, Mdl D43KXA7JA5BK	RA1870	1
Tool Box, Command Trailer VA0718/VA0719	TL0040	1
c. Van, Command Trailer, 40'	VA0719	1
Containment Pool, Mchry, 5 'x 5' x 12"	CP3000	1
TV/VCR Combo	OE2099 (not shown)	1
Generator, 12-kW, Diesel, in VA0719	GE0406	1
Radio, CB, Marine Mobile	RA1709	1
Radio, VHF, Marine Mobile, Voyager (76-Channel)	RA1830	1
Tool Box, Command Trailer VA0718/VA0719	TL0040	1

Downloaded from http://www.everyspec.com



40' Command Trailer Van VA0719

VAN, COMMAND TRAILER, 40'

ESSM NUMBER VA0719

DESCRIPTION

The 40-foot Command Trailer Van VA0719 is an eight-wheeled trailer used as a command and communications office for field operations. It is equipped to provide on-site telephone and radio communications, office space facilities, and heated/air conditioned shelter from the environment. The trailer provides a portable, fully equipped command post from which to direct extended field operations where road transport is available.

SPECIFICATIONS

Power systems 240 V ac single phase, 60 A max

12-volt emergency lighting system

Communications power AC converter = 12 V dc

Communication systems: 58-Channel marine VHF radio

40-Channel CB radio plus 4 channels for weather

Telephone lines: 6-line capability:

4 lines for telephone communications

1 line for fax communications 1 line for modem communications

Heat Propane heater

Cooling Air conditioner - 240 V ac

Berthing 1 Shower 1 Commode 1

Sewage holding tank 250 gallons Gray water 250 gallons Fresh water 500 gallons

Galley facilities Butane range, microwave oven, refrigerator

PHYSICAL CHARACTERISTICS

Operating/Shipping

Height	13 ft, 4 in.
Width	8 ft, 0 in.
Length	42 ft, 0 in.
Cube	4480 cu ft
Weight	24,130 lb

VAN, COMMAND TRAILER, 40'

ESSM NUMBER VA0719

REFERENCES

None

Downloaded from http://www.everyspec.com



5' x 5' x 12" Machinery Containment Pool CP3000

CONTAINMENT POOL, MACHINERY, 5' x 5' x 12"

ESSM NUMBER CP3000

DESCRIPTION

The Machinery Containment Pool CP3000 is a 5' x 5' x 12" urethane berm. It is used to catch and contain any oil, fuel, or contaminants leaking or spilled from the component placed in the berm.

SPECIFICATIONS

Manufacturer	Basic Concepts
Fabric material	Cooley Urethane

PHYSICAL CHARACTERISTICS

	<u>Operating</u>	Shipping
Length	5 ft, 0 in.	1 ft, 8 in.
Width	5 ft, 0 in.	1 ft, 8 in.
Height	1 ft, 0 in.	6 in.
Cube	25 cu ft	1.5 cu ft
Weight	34 lb	34 lb

REFERENCES

None



12-kW Generator GE0406

GENERATOR, 12-kW, DSL, IN VA0719

ESSM NUMBER GE0406

DESCRIPTION

The 12-kW Diesel Generator GE0406 is a 60-hertz, 120/240-volt, single phase, revolving field alternator powered by an air-cooled, diesel engine. The generator is mounted under the Command Trailer Van VA0719 and can be operated either in place or at a remote location within the length of the power supply cable.

SPECIFICATIONS

	<u>Engine</u>	
Onan	Manufacturer Model	Onan DJC
Single	Battery	12 V dc
	Cycle No. of cylinders	4-stroke
12 kW	Compression ratio Horsepower @ 1800 rpm Starter	19 : 1 20 Electric
	LR 3927 Single 120/240 V ac 60	Onan Manufacturer LR 3927 Model Single Battery 120/240 V ac Cycle 60 No. of cylinders 12 kW Compression ratio Horsepower @ 1800 rpm

PHYSICAL CHARACTERISTICS

Operating/Shipping
4 ft, 7 in.
4 ft, 0 in.
2 ft, 8 in.
49 cu ft
1656 lb

REFERENCES

1. Onan Technical Manual for DJC Engine.



Marine Mobile CB Radio RA1709

RADIO, CB, MARINE MOBILE

ESSM NUMBER RA1709

DESCRIPTION

The Marine Mobile Citizens Band (CB) Radio RA1709 is designed for marine use. Features include the ability to receive four of the National Oceanic and Atmospheric Administration (NOAA) weather channels. The CB 40 + 4 radio has 44 channels; 40 CB and 4 weather channels. The 40 CB channels can be used for transmitting and receiving; whereas, the 4 weather channels are for receiving only.

SPECIFICATIONS

Frequency	range
-----------	-------

Citizens band 26.965 to 27.405 MHz
Weather band (receive only) 161.665 to 162.550 MHz

Channels total 44
Citizens 40
Weather band 4

Input voltage $13.8 \text{ V dc} \pm 20\%$ Temperature range $-20^{\circ}\text{C to} +50^{\circ}\text{C}$ Transmitter (citizens band only) RF output 4 W maximum

Receiver (CB):

Audio output at 10% distortion 5 W

Audio response 300 Hz to 3 kHz, 3 dB

Channel spacing 10 kHz Hum and noise at 100 kV 45 dB

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length	9 in.
Width	6 in.
Height	2 in.
Weight	3 lb
Cube	1 cu ft

REFERENCES

1. Owner's Manual, CB 40 + 4 H-Watt Citizens Band Marine Transceiver.



Marine Mobile VHF Radio RA1830

RADIO, VHF, MARINE MOBILE, VOYAGER (76-CHANNEL)

ESSM NUMBER RA1830

DESCRIPTION

The Horizon Voyager GX2200S Marine Mobile Radio RA1830 is a marine VHF/FM transceiver with public address system and intercom features in a single moisture-resistant console. The Horizon Voyager requires 13.8 V dc for operation, can develop a switchable RF output power of 1 watt or 25 watts, and operates in the frequency range of 156.050 to 163.275 MHz.

The Horizon Voyager has a capacity of 76 channels: 55 programmed marine transmit/receive channels, 6 weather channels, and 15 transmit/receive expansion channels. The 55 marine channels are switchable for use with USA, international, or Canadian regulations. Should the FCC increase the number of marine channels, the Voyager may be programmed by qualified dealers for 15 new transmit and receive frequencies. The one-touch Channel 16 access allows immediate selection of emergency Channel 16.

SPECIFICATIONS

Model Horizon Voyager GX2200S

Channels 76 total:

55 marine 6 weather 15 expansion 8 V dc +20%

 $\begin{array}{ll} \text{Input voltage} & 13.8 \text{ V dc} \pm 20\% \\ \text{Frequency range} & 156.050 \text{ to } 163.275 \\ \text{Transmitter RF output} & 25 \text{ W high, } 1 \text{ W low} \\ \end{array}$

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length8 in.Width7 in.Height2 in.Cube1 cu ftWeight3 lb

REFERENCES

1. Horizon Voyager GX2200S Owner's Manual.



VA0718/VA0719 Command Trailer Tool Box TL0040

TOOL BOX, COMMAND TRAILER VA0718/VA0719

ESSM NUMBER TL0040

DESCRIPTION

The VA0718/VA0719 Command Trailer Tool Box TL0040 is a basic mechanic's tool set that contains 1/2" drive sockets and accessories, combination, open-end and adjustable wrenches, pliers, hammers and other miscellaneous tools. It contains the necessary tools to set up, operate, and maintain the Command Trailer VA0718/VA0819.

SPECIFICATIONS

Manufacturer ESSM Facility

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length 1 ft, 6 in.
Width 10 in.
Height 1 ft, 2 in.
Cube 1 cu ft
Weight 36 lb

REFERENCES

None

Downloaded from http://www.everyspec.com

COMMAND VAN P19300



Command Van System P19300 VA0727A Top, VA0727B Bottom





Command Van VA0727B, Interior

COMMAND VAN

SYSTEM NUMBER P19300

SYSTEM DESCRIPTION

The Command Van System P19300 provides the same type of services as the 40-foot command trailer. The 20-foot long vans are more compact, and they do not provide head facilities. Their compact size is an advantage for air shipment, and for positioning on barges or other support platforms. The command vans augment the capabilities provided by the 40-foot command trailers and replace that capability overseas. The command van system is equipped with onsite telephone and radio communications, an office space, a small conference area, and a galley. The van also provides a heated/air-conditioned shelter against the environment. The command van is a fully equipped command post from which to direct extended field response operations.

In conjuction with the Command Van (VA0727A and VA0727B) an Expandable Command Conference Center Van VA0715 may be used if the need arises. When fully expanded, the Command Conference Center and Command Van combine to create an all-in-one multipurpose command center and conference room. The VA0715 is a stand-alone item and must be ordered separately from the ESSM facility in Williamsburg, VA.

SYSTEM COMPONENTS

<u>Item</u>		ESSM Number	<u>Qty</u>
Comman	d Van		1
a. Va	n, Command, 20'	VA0727A	
I	HVAC Unit, w/Sleeve	AC2001	1
I	Kitchenette, Sink, 2-Burner Stove, Refrigerator	KI0010 (not shown)	1
1	Mast Assembly, Antenna	MA0010 (not shown)	1
-	Γelephone, Digital, Manual System w/4 Phones	OE2109 (not shown)	1
I	Radio, CB, Marine Mobile	RA1709	1
I	Radio, VHF, Marine Mobile, Voyager (76-Channel)	RA1830 (Altn)	1
I	Radio, VHF, Marine Mobile, Icom (58-Channel)	RA1831	1
I	Roundsling, Polyester, 16'	SL0012	1
-	Γool Box, 20' Command Van	TL0045	1

COMMAND VAN SYSTEM NUMBER P19300

<u>Item</u>	ESSM Number	Qty
b. Van, Command, 20'	VA0727B	
Printer, Laser	CO1300 (not shown)	1
HVAC Unit, w/Sleeve	AC2001	1
Mast Assembly, Antenna	MA0010 (not shown)	1
Refrigerator, 6.0 Cubic Foot	OE0001 (not shown)	1
Marker Board w/Sliding Board	OE0111 (not shown)	1
Television/VCR Combination, 13"	OE2095 (not shown)	1
Telephone, Digital, Manual System w/4 Phones	OE2109 (not shown)	1
Radio, CB, Marine Mobile	RA1709	1
Radio, VHF, Marine Mobile, Voyager (76-Channel)	RA1830 (Altn)	1
Radio, VHF, Marine Mobile, Icom (58-Channel)	RA1831	1
Roundsling, Polyester, 16'	SL0012	1
Tool Box, 20' Command Van	TL0045	1

Downloaded from http://www.everyspec.com



Command Van System P19300 VA0727A Top, VA0727B Bottom





Command Van VA0727B, Interior

VAN, COMMAND, 20'

ESSM NUMBER VA0727A/B

DESCRIPTION

The Command Van VA0727A/B is a modified shipping container serving as a command and communications office for field operations. The van is equipped with onsite telephone and radio communications, an office space, a small conference area with a copy machine, a fax machine, a printer, 4 telephone lines for telephone communications, 1 telephone line for fax communications, 1 telephone line for modem communications, galley facilities, as well as heated/air-conditioned shelter from the environment. It also provides a portable, fully equipped command post from which to direct extended field response operations. The Command Van VA0727A/B augments the capability provided by the Command Trailer VA0718/VA0719 in CONUS and replaces that capability overseas. The command van's compact size is an advantage for air shipment and for positioning on barges or other support platforms.

SPECIFICATIONS

Manufacturer ESSM Facility

PHYSICAL CHARACTERISTICS

Operating/Shipping

	<u>VA0727A</u>	<u>VA0727B</u>
Length	20 ft, 0 in.	20 ft, 0 in.
Width	8 ft, 0 in.	8 ft, 0 in.
Height	8 ft, 6 in.	8 ft, 0 in.
Cube	1360 cu ft	1280 cu ft
Weight	6420 lb	9060 lb

REFERENCES

None





HVAC Unit w/Sleeve AC2001

HVAC UNIT W/SLEEVE

ESSM NUMBER AC2001

DESCRIPTION

The HVAC Unit w/Sleeve AC2001 is a 12,000-Btu through-the-wall air conditioner and heat pump unit. It is designed to maintain a comfortable ambient atmosphere in the space being conditioned.

SPECIFICATIONS

Manufacturer	Frigidaire
Model	FAH12EJ2T
Btu's	12,000
Volts	230 V ac

PHYSICAL CHARACTERISTICS

\sim	, •	/01 .	•
Opera	atına	/\hir	nina
Obote	aum≥	/ DIIIL	<i>ש</i> ווועו

Length	2 ft, 0 in.
Width	1 ft, 7 in.
Height	1 ft, 3 in.
Cube	4 cu ft
Weight	104 lb

REFERENCES

- 1. Frigidaire Installation Instruction 309000911.
- 2. Frigidaire Owner's Guide 309000823.



Marine Mobile CB Radio RA1709

RADIO, CB, MARINE MOBILE

ESSM NUMBER RA1709

DESCRIPTION

The Marine Mobile Citizens Band (CB) Radio RA1709 is designed for marine use. Features include the ability to receive four of the National Oceanic and Atmospheric Administration (NOAA) weather channels. The CB 40 + 4 radio has 44 channels; 40 CB and 4 weather channels. The 40 CB channels can be used for transmitting and receiving; whereas, the 4 weather channels are for receiving only.

SPECIFICATIONS

T-		
+rec	nencv	range:
1100	actic	I WII SU.

Citizens band 26.965 to 27.405 MHz Weather band (receive only) 161.665 to 162.550 MHz

Channels total: 44
Citizens band 40
Weather band 4

Input voltage $13.8 \text{ V dc} \pm 20\%$ Temperature range $-20^{\circ}\text{C to} + 50^{\circ}\text{C}$

Transmitter (citizens band only)

RF output 4 W maximum

Receiver (CB):

Audio output at 10% distortion 5 W

Audio response 300 Hz to 3 kHz, 3 dB

Channel spacing 10 kHz Hum and noise at 100 kV 45 dB

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length9 in.Width6 in.Height2 in.Weight3 lbCube1 cu ft

REFERENCES

1. Owner's Manual, CB 40 + 4 H-Watt Citizens Band Marine Transceiver.



Marine Mobile VHF Radio, Voyager (76-Channel) RA1830

RADIO, VHF, MARINE MOBILE, VOYAGER (76-CHANNEL)

ESSM NUMBER RA1830

DESCRIPTION

The Horizon Voyager GX2200S Marine Mobile Radio RA1830 is a marine VHF/FM transceiver with public address system and intercom features in a moisture-resistant console. The Horizon Voyager requires 13.8 V dc for operation, can develop a switchable RF output power of 1 watt or 25 watts, and operates in the frequency range of 156.050 to 163.275 MHz.

The Horizon Voyager has a capacity of 76 channels: 55 programmed marine transmit/receive channels, 6 weather channels, and 15 transmit/receive expansion channels. The 55 marine channels are switchable for use with USA, international, or Canadian regulations. Should the FCC increase the number of marine channels, the Voyager may be programmed by qualified dealers for 15 new transmit and receive frequencies. The one-touch Channel 16 access allows immediate selection of emergency Channel 16.

SPECIFICATIONS

Manufacturer Standard

Model Horizon Voyager GX2200S

Channels 76 total: 55 marine

6 weather 15 expansion

Input voltage $13.8 \text{ V dc} \pm 20\%$

Frequency range 156.050 to 163.275 MHz Transmitter RF output 25 W high, 1 W low

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length	8 in.
Width	7 in.
Height	2 in.
Cube	1 cu ft
Weight	3 lb

REFERENCES

1. Horizon Voyager GX2200S Owner's Manual.



Marine Mobile VHF Radio RA1831

RADIO, VHF, MARINE MOBILE, ICOM (58-CHANNEL)

ESSM NUMBER RA1831

DESCRIPTION

The Icom Marine Mobile VHF Radio RA1831 is a marine VHF/FM transceiver with intercom features and a public address system in a moisture-resistant console. The radio requires a supply voltage of 13.8 V dc negative ground and operates in the frequency range of 156 to 163 MHz. The radio has 58 programmed marine transmit/receive channels and 10 weather channels.

The radio has the following advanced features: voltage source deviation indicator; 25W of high transmission output power; dual watch and a variety of scans; 20 user-programmed memory channels; momentary high power on Channels 13 and 67; single-tone, double high-tone, and double low-tone beeps; high sensitivity and strong intermodulation rejection; and a built-in lithium battery to retain the information programmed into the memory channels. The life of the lithium battery is approximately 5 years. The Icom radio model IC-M56 is currently being replaced with the IC-M58 model. The system may contain either model and instruction manual. Both models have similar features, except that the IC-M58 model contains an emergency Channel 9.

SPECIFICATIONS

Usable temperature range -20 to +60°C (-4 to +140°F) Power supply voltage 13.8 V dc negative ground

Channels:

Transmit 58
Weather 10

Receiver:

Frequency range 156 to 163 MHz

Sensitivity 0.3 micro-volts for 12 dB SINAD

Audio output power 4 W with a 4-ohm load

Intermediate frequency 1st: 21.8 MHz; 2nd: 455 kHz

Transmitter:

Frequency range 156 to 157.5 MHz Output power 25 W high, 1 W low

RADIO, VHF, MARINE MOBILE, ICOM (58-CHANNEL)

ESSM NUMBER RA1831

PHYSICAL CHARACTERISTICS

Operating/Shipping	2
--------------------	---

Length8 in.Width7 in.Height2 in.Cube1 cu ftWeight3 lb

REFERENCES

1. Instruction Manual ICOM IC-M56/Instruction Manual ICOM IC-M58.

Downloaded from http://www.everyspec.com



16' Polyester Roundslings SL0012 (4 per van)

ROUNDSLING, POLYESTER, 16'

ESSM NUMBER SL0012

DESCRIPTION

The 16' Polyester Roundsling SL0012 is an endless synthetic sling made from a skein (continuous loop or hank) of polyester yarn covered by a double-wall tubular jacket. Each sling is fitted with a screw pin shackle. Four 16' Polyester Roundslings are used for lifting the van to which they are assigned.

SPECIFICATIONS

Sling		<u>Shackle</u>	
Manufacturer Model Vertical SWL Choker SWL Basket SWL	Lift-All EN240 21,200 lb 17,000 lb 42,400 lb	Manufacturer Part number Size Working load limit	Crosby G-209-A 1 in. 25,000 lb
Overall length	16 ft, 0 in.		

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length (operating)	16 ft, 0 in.
Cube (coiled for shipping)	4 cu ft
Weight	18 lb

REFERENCES

1. Lift-All 1998 Catalog.



20' Command Van Tool Box TL0030

TOOL BOX, 20' COMMAND VAN

ESSM NUMBER TL0045

DESCRIPTION

The 20' Command Van Tool Box TL0030 is a basic mechanic's tool set that contains a set of open end wrenches, adjustable wrenches, pliers, a nut driver set, and other miscellaneous tools. It contains the necessary tools to set up and perform basic repairs on the 20' Command Van.

SPECIFICATIONS

Manufacturer ESSM Facility

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length 1 ft, 8 in.
Width 9 in.
Height 11 in.
Cube 2 cu ft
Weight 16 lb

REFERENCES

None

Downloaded from http://www.everyspec.com

RIGGING VAN P19600



Rigging Van VA0010A



VA0010B

Rigging Van System P19600

RIGGING VAN

SYSTEM NUMBER P19600

SYSTEM DESCRIPTION

The Rigging Van System P19600 is a self-contained rigger's storeroom and shop. It is used to provide rigging support in the field for operations involving containment boom, moorings, small boats, skimmers, and general lifting and equipment handling. The Rigging Van contains personal protection equipment, personal flotation devices, general cleaning equipment, paint, rigging gear, patching material for boom, rain gear, general support equipment for response operations, and the ESSM-numbered items listed below. For a detailed inventory list of components, check the ancillary listing contained in the ESSM facilities database.

A rigging van is required during spill response operations at each location where the functions identified above are being performed. A command trailer or van, a rigging van, and a shop van will generally be placed at one or more equipment staging areas supporting the response operation. Several staging areas may be required for major offshore spills. The appropriate number of rigging vans will be deployed from one or both of the CONUS bases or the Alaska and Hawaii complexes.

SYSTEM COMPONENTS

<u>Item</u>	ESSM Number	<u>Qty</u>
1. Van, Rigging HVAC Unit w/Sleeve Block, Snatch, 6", Wire Rope, Self-Locking	VA0010A AC2001 BK2015	1 1 2
Block, Snatch, 6", Wire Rope, w/ Swivel Shackle	BK2016	2
Fender, Ship, 24" x 36", Foam, Navy Type	FN2028	2
Hook, Quick-Release	HK2000	1
Hook, Release-A-Matic	HK2001	1
Motor, Outboard, 15-Hp	MT0940	1
Motor, Outboard, 35-Hp	MT0944	1
Roundsling, Polyester, 16'	SL0012	4
Roundsling Bridle, Polyester, 4-Leg, 8' 6"	SL0382	1
Stopper, Carpenter, 5/8"	ST0010	1
Bridle, WR, 5/8" Carpenter Stopper	ST0012	1
Boat,		1
16' Inflatable	WB0716 (Altn)	
15' Inflatable	WB0717 (Altn)	

RIGGING VAN

SYSTEM NUMBER P19600

SYSTEM COMPONENTS (Continued)

<u>Item</u>	ESSM Number	<u>Qty</u>
2. Van, Rigging	VA0010B (Altn not sl	nown)*
HVAC Unit w/Sleeve	AC2001	1
Block, Snatch, 6", Wire Rope, Self-Locking	BK2015	2
Block, Snatch, 6", Wire Rope, w/ Swivel Shackle	BK2016	2
Fender, Ship, 24" x 36", Foam, Navy Type	FN2028	2
Hook, Quick-Release	HK2000	1
Hook, Release-A-Matic	HK2001	1
Motor, Outboard, 15-Hp, 4-Stroke, Long Shaft	MT0016	1
Motor, Outboard, 40-Hp, 4-Stroke	MT0040	1
Roundsling, Polyester, 16'	SL0012	4
Roundsling Bridle, Polyester, 4-Leg, 8' 6"	SL0382	1
Stopper, Carpenter, 5/8"	ST0010	1
Bridle, WR, 5/8" Carpenter Stopper	ST0012	1
Boat, 16' Inflatable	WB0716	1

^{*}Alternate ESSM configurations are functionally equivalent and are not shown in the catalog.

Downloaded from http://www.everyspec.com



Rigging Van VA0010A/VA0010B

VAN, RIGGING

ESSM NUMBER VA0010A/VA0010B

DESCRIPTION

The Rigging Van VA0010A/VA0010B is a self-contained rigger's storeroom and workshop. It is equipped with lighting, heating, ventilation, bins, racks, line, wire rope, rigging supplies, spare parts, and other items needed to support the rigging and operation of the response equipment.

SPECIFICATIONS

Manufacturer Commercial

PHYSICAL CHARACTERISTICS

	Operating/Shipping (VA0010A)	Operating/Shipping (VA0010B)
Length	20 ft, 0 in.	20 ft, 0 in.
Width	8 ft, 0 in.	8 ft, 0 in.
Height	8 ft, 0 in.	8 ft, 0 in.
Cube	1280 cu ft	1280 cu ft
Weight	16,580 lb	13,740 lb

REFERENCES

None





HVAC Unit w/Sleeve AC2001

HVAC UNIT W/ SLEEVE

ESSM NUMBER AC2001

DESCRIPTION

The HVAC Unit w/Sleeve AC2001 is a 12,000-BTU through-the-wall air conditioner and heat pump. It is designed to maintain a comfortable ambient atmosphere in the van.

SPECIFICATIONS

Manufacturer	Frigidaire
Model	FAH12EJ2T
BTU	12,000
Volts	230 V ac

PHYSICAL CHACTERISTICS

	Operating/Shipping
Length	2 ft, 0 in.
Width	1 ft, 7 in.
Height	1 ft, 3 in.
Cube	4 cu ft
Weight	104 lb

REFERENCES

- 1. Frigidaire Installation Instruction 309000911.
- 2. Frigidaire Owner's Guide 309000823.



6" Self-Locking Wire Rope Snatch Block BK2015

BLOCK, SNATCH, 6", WIRE ROPE, SELF-LOCKING

ESSM NUMBER BK2015

DESCRIPTION

The Self-Locking, 6" Wire Rope Snatch Block BK2015 is designed with a self-locking opening in its shell to permit the placing of a wire rope over its sheave without reeving. The wire rope is used as a temporary lead and may be taken to a winch or capstan to aid in the moving of heavy objects.

The snatch block is constructed with a self-lubricating bronze bushing and has an extra large center pin with steel sleeves around it, thus increasing the diameter of the bearing surface. The sleeves also act as separators for the sides of the shell, and when the nuts on the lubricated center pin are pulled tightly, the rigidity and strength of the block are greatly increased.

SPECIFICATIONS

Manufacturer	Crosby
Model	T-961
Block size	6 in.

Sheeve size:

Outside diameter 6 in.
Rim Thickness 1.50 in.
Bearing diameter 1.63 in.
Wire rope size 5/8 in.
Working load limit 10 tons

Ultimate load 4 times working load

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length 1 ft, 7 in.
Width 7 in.
Height 4 1/2 in.
Cube 1 cu ft
Weight 28 lb

REFERENCES

1. Crosby General Catalog, August 1998.



6" Wire Rope Snatch Block, w/Swivel BK2016

BLOCK, SNATCH, 6", WIRE ROPE, w/SWIVEL SHACKLE

ESSM NUMBER BK2016

DESCRIPTION

The 6" Wire Rope Snatch Block with Swivel BK2016 is designed with a drop-link opening in its shell to permit the placing of a wire rope over its sheave without reeving. The wire rope is used as a temporary lead and may be taken to a winch or capstan to aid in the moving of heavy objects.

The snatch block is constructed with a self-lubricating bronze bushing and has an extra large center pin with steel sleeves around it, thus increasing the diameter of the bearing surface. The sleeves also act as separators for the sides of the shell, and when the nuts on the lubricated center pin are pulled tightly, the rigidity and strength of the block are greatly increased.

SPECIFICATIONS

Manufacturer	Crosby
Model	G-941
Block size	6 in.

Sheave size:

Outside diameter 6 in.
Rim thickness 1 in.
Wire rope size 1/2 in.
Working load limit 2 tons

Ultimate load 4 times working load

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length 1 ft, 4 in.
Width 7 in.
Height 2 1/2 in.
Cube 1 cu ft
Weight 16 lb

REFERENCES

1. Crosby General Catalog.

Downloaded from http://www.everyspec.com

ESSM Number CD0010 Deleted.



24" x 36" Navy-Type Ship Fender FN2028

FENDER, SHIP, 24" X 36", FOAM, NAVY-TYPE

ESSM NUMBER FN2028

DESCRIPTION

The 24" x 36" Navy-Type Foam Ship Fender FN2028 is designed to be placed between two boats or a boat and a mooring vessel to allow the boat to moor alongside it in moderate seas without the risk of hull damage occurring during operations. The fender is foam filled and will effectively reduce wear and tear on vessels and wharves, reducing downtime required for maintenance and repairs.

SPECIFICATIONS

Manufacturer Seaward

PHYSICAL CHARACTERISTICS

Length	3 ft, 6 in
Width	2 ft, 0 in
Height	2 ft, 0 in
Cube	14 cu ft
Weight	60 lb

REFERENCES

None



Quick-Release Hook HK2000

HOOK, QUICK-RELEASE

ESSM NUMBER HK2000

DESCRIPTION

The Quick-Release Hook HK2000 is designed for material handling overhead and aids in the placement of loads where access is restricted. The advantage of the quick-release hook is that it can be opened remotely and released while under load. The hook assembly is constructed of three separate parts; the sling, the swivel hook, and a lanyard.

SPECIFICATIONS

Manufacturer	Aeroquip
Safe working load	15,000 lb
Swivel hook inside diameter	3"

PHYSICAL CHARACTERISTICS

	Operating/Shipping
Length Width Height Cube Weight	5 ft, 3 in. 1 ft, 0 in. 5 in. 2 cu ft 52 lb

REFERENCES

1. Technical Manual for Mission Essential Equipment and Systems for Helicopter External Cargo Handling, AG-230SL-MME-000.



Release-A-Matic Hook HK2001

HOOK, RELEASE-A-MATIC

ESSM NUMBER HK2001

DESCRIPTION

The Release-A-Matic Hook HK2001 is a rigging device for remotely releasing loads under tension. It is designed to aid in the placement of loads where access is restricted. It can be opened remotely, and can be released from a wide range of angles. The Release-A-Matic hook is not designed for overhead lifting or for personal safety use.

SPECIFICATIONS

Manufacturer Peck & Hale Model H 44

Safe working load 18,000 lb Minimum break strength 71,700 lb

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length9 1/2 in.Width5 1/2in.Height2 in.Cube1 cu ftWeight12 lb

REFERENCES

None



15-Hp 4-Stroke Outboard Motor MT0016

MOTOR, OUTBOARD, 15-HP, 4-STROKE, LONG SHAFT

ESSM NUMBER MT0016

DESCRIPTION

The Outboard Motor MT0016 is a 4-stroke, 15-hp outboard motor with a long shaft. The motor has manual starting and uses a 6-gallon auxiliary fuel tank.

SPECIFICATIONS

Manufacturer Mercury Marine

Engine type 4-stroke
Power at propeller shaft 15 hp
Max. operating rpm 4500-5500

Fuel Gasoline with a minimum octane rating of 87. Leaded gasoline is not

recommended

Fuel tank capacity 6 gallons, external

Propeller 9 1/2" diameter x 10" pitch

Starting Recoil (pull start)

PHYSICAL CHARACTERISTICS

Operation/Shipping

 Length
 2 ft, 3 in.

 Width
 1 ft, 3 in.

 Height
 4 ft, 2 in.

 Cube
 12 cu ft

 Weight
 128 lb

REFERENCES

1. Mercury Outboard Operation, Maintenance, and Warranty Manual 90-10185040 203.



40-Hp 4-Stroke Outboard Motor MT0040

MOTOR, OUTBOARD, 40-HP, 4-STROKE

ESSM NUMBER MT0040

DESCRIPTION

The Outboard Motor MT0040 is a 4-stroke, 40-hp outboard motor with a long shaft. The motor has manual starting and uses a 6-gallon auxiliary fuel tank.

SPECIFICATIONS

Manufacturer Mercury Marine

Engine type 4-stroke
Power at propeller shaft 40 hp
Max. operating rpm 5500-6000

Fuel Gasoline with a minimum octane rating of 87. Leaded gasoline is not

recommended

Fuel tank capacity 6 gallons, external

Propeller 10 1/2" diameter x 11" pitch

Starting Recoil (pull start)

PHYSICAL CHARACTERISTICS

Operation/Shipping

Length 2 ft, 10 in.
Width 1 ft, 3 in.
Height 5 ft
Cube 18 cu ft
Weight 235 lb

REFERENCES

1. Mercury Outboard Operation, Maintenance, and Warranty Manual 90-10212040 203.



15-Hp Outboard Motor MT0940 35-Hp Outboard Motor MT0944 also Pictured

MOTOR, OUTBOARD, 15-HP

ESSM NUMBER MT0940

DESCRIPTION

The Outboard Motor MT0940 is a 2-cycle, 15-hp outboard motor with a long shaft. The motor has manual starting and uses a 6-gallon auxiliary fuel tank.

SPECIFICATIONS

Manufacturer OMC, Johnson Division

Power at propeller shaft 15 hp Max. operating rpm 7000

Fuel Gasoline (mixed w/50:1 outboard motor oil)

Fuel tank capacity 6 gallons, external

Propeller 9 ½" diameter x 10" pitch

Starting Recoil (pull start)

PHYSICAL CHARACTERISTICS

Shipping (mounted on rigging van door)

Length 1 ft, 8 in.
Width 1 ft, 0 in.
Height 3 ft, 6 in.
Cube 6 cu ft
Weight 77 lb

REFERENCES

- 1. Manual for Johnson Outboards, Model 9-15, No. 433276C.
- 2. Evinrude-Johnson Service Manual, Models 2 through V6, PN 507508.
- 3. Outboard Marine Corporation Special Tool Guide, PN 395402.
- 4. Outboard Marine Corporation Parts Catalog for 15-Hp Motors.



35-Hp Outboard Motor MT0944 15-Hp Outboard Motor MT0940 also Pictured

MOTOR, OUTBOARD, 35-HP

ESSM NUMBER MT0944

DESCRIPTION

The Outboard Motor MT0944 is a two-cycle, gasoline, 35-hp outboard motor with a long shaft. The motor has manual starting and uses a 6-gallon auxiliary fuel tank.

SPECIFICATIONS

Manufacturer OMC, Johnson Division

Power at propeller shaft 35 hp Max. operating rpm 5500

Fuel Gasoline (mixed w/50:1 outboard motor oil)

Fuel tank capacity 6 gallons, external

Propeller 10 1/2" diameter x 11" pitch

Starting Recoil

PHYSICAL CHARACTERISTICS

Shipping (mounted on rigging van door)

 Length
 4 ft, 6 in.

 Width
 1 ft, 3 in.

 Height
 2 ft, 2 in.

 Cube
 1125 cu ft

 Weight
 114 lb

REFERENCE

- 1. Evinrude-Johnson Service Manual, Models 2 through V6, PN 507508.
- 2. Outboard Marine Corporation Special Tool Guide, PN 395402.
- 3. Outboard Marine Corporation Parts Catalog for 35-Hp Motors.



16' Polyester Roundslings SL0012 (4 per van)

ROUNDSLING, POLYESTER, 16'

ESSM NUMBER SL0012

DESCRIPTION

The 16' Polyester Roundsling SL0012 is an endless synthetic sling made from a skein (continuous loop or hank) of polyester yarn and covered by a double-wall tubular jacket. Four 16' Polyester Roundslings are used for lifting the van to which they are assigned, and each sling is fitted with a screw pin shackle.

Shackle

SPECIFICATIONS

Sling

			
Manufacturer	Lift-All	Manufacturer	Crosby
Model	EN240	Part number	G-209-A
Vertical SWL	21,200 lb	Size	1 in.
Choker SWL	17,000 lb	Working load limit	25,000 lb
Basket SWL	42,400 lb		
Overall length	16 ft, 0 in.		

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length (operating) 16 ft, 0 in. Cube (coiled for shipping) 4 cu ft Weight 18 lb

REFERENCES

1. Lift-All 1998 Catalog.



4-Leg Polyester Roundsling Bridle SL0382

ROUNDSLING BRIDLE, 4-LEG, POLYESTER, QOS EN30

ESSM NUMBER SL0382

DESCRIPTION

The 4-Leg, Polyester Roundsling Bridle SL0382 is an assembly consisting of four endless synthetic slings made from a skein (continuous loop or hank) of polyester yarn covered by a double wall tubular jacket. The four slings are connected at one end with a cloth-type D-ring; the opposite end of each leg has a safety shackle.

The 4-Leg, Polyester Roundsling Bridle SL0382 is used to lift and position the 16' Inflatable Workboat WB0716.

SPECIFICATIONS

Roundsling Bridle Shackle (4 each)

Manufacturer	Lift-All	Manufacturer	Columbus McKinnon
Model	QOS EN30	Part Number	M649G
Capacity	4,500 lb @ 60°	Size	7/16"
Length	8 ft, 6 in.	Working load	4,000 lb

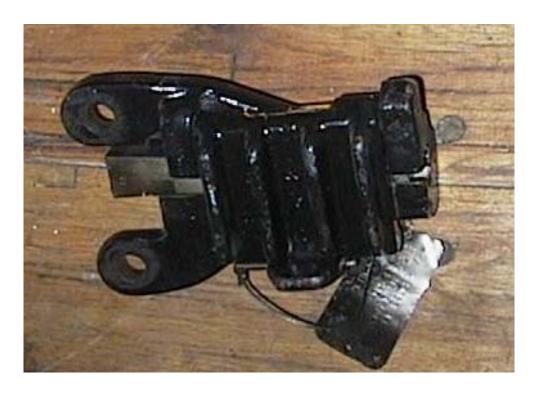
PHYSICAL CHARACTERISTICS

Operating/Shipping

Length	8 ft, 6 in
Width	6 in.
Height	6 in.
Cube	2 cu ft
Weight	14 lb

REFERENCES

1. Lift-All Catalog.



5/8" Carpenter Stopper ST0010

STOPPER, CARPENTER, 5/8-INCH

ESSM NUMBER ST0010

DESCRIPTION

The 5/8-inch Carpenter Stopper ST0010 is the principal means of gripping and holding a wire rope that is under a load. The carpenter stopper is capable of gripping a wire rope to the breaking strength of that wire rope without causing damage to itself. Under normal operating conditions, the carpenter stopper is repeatedly engaged and loaded up to 60 percent of the wire rope's breaking strength without causing damage to that wire rope. Although the construction and operating principles of the carpenter stopper are relatively simple, specific maintenance and operating techniques are mandatory to ensure a long and dependable service life.

SPECIFICATIONS

Manufacturer Commercial to Navy specifications

Size 5/8" Proof load 21,240 lb Trip test load 6,372 lb

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length 8 in.
Width 6 in.
Height 4 in.
Cube 1 cu ft
Weight 12 lb

REFERENCES

- 1. Operation and Maintenance Instruction, Carpenter Stopper, NAVSHIP 0994-LP-004-8010.
- 2. U.S. Navy Ship Salvage Manual, Volume 1, Theory of Strandings and the Use of Beach Gear, NAVSHIPS 0994-000-3010.
- 3. Carpenter Stopper for 5/8" Diameter Wire Rope, Assembly & Detail, NAVSEA Dwg. 6539368.



5/8" Carpenter Stopper Bridle ST0012

BRIDLE, WIRE ROPE, 5/8-INCH CARPENTER STOPPER

ESSM NUMBER ST0012

DESCRIPTION

The Wire Rope Bridle, for 5/8-inch Carpenter Stopper ST0012, is comprised of 3 high-in-strength, steel alloy forgings that are permanently assembled onto a length of wire rope. The three parts of the bridle consist of the equalizing thimble and two sockets. The sockets of the bridle are attached to two ears located on the body of the carpenter stopper and the equalizing thimble can be secured to either a cable puller or a secured deck fitting. The purpose of the bridle is to restrain the carpenter stopper.

SPECIFICATIONS

Maximum operating load 29,400 lb Maximum safe overload 40,750 lb Breaking strength 45,200 lb

PHYSICAL CHARACTERISTICS

Operating/Shipping

3 ft, 4 in
5 in.
4 in.
1 cu ft
14 lb

REFERENCES

- 1. Operation and Maintenance Instruction, Carpenter Stopper, NAVSHIPS 0994-LP-004-8010.
- 2. U.S. Navy Ship Salvage Manual, Volume 1, Theory of Strandings and the Use of Beach Gear, NAVSHIPS 0994-000-3010.
- 3. Wire Rope Bridle for 5/8" Carpenter Stopper Assembly & Detail, NAVSEA Dwg. 6539369.



16' Inflatable Boat WB0716

BOAT, 16' INFLATABLE

ESSM NUMBER WB0716

DESCRIPTION

The 16' Inflatable Boat WB0716 is a medium weight, trailerable boat that can be used in many applications where maneuverability, stability, and durability are important. The boat is used to transport people, equipment, and supplies, and for numerous other jobs.

The boat features a rigid one-piece aluminum deck with tie-down bars for securing equipment. The boat's rugged vulcanized neoprene tubes and internal keel tube enhance its self-bailing capabilities. The boat is designed to handle up to a 60-hp outboard motor that mounts on a neoprene-encased marine plywood transom.

The boat is equipped with a solid aluminum floor, paddles, running lights, a stern light, an anchor light, a boat hook, and the necessary ancillary gear to operate, maintain, and repair it.

SPECIFICATIONS

Manufacturer	Demaree
Model	16' GPC
Main tube diameter	20"
Inflatable chambers:	
Main tube	4
Keel tube	1
Load capacity	2000 lb
Max. horsepower rating	60

PHYSICAL CHARACTERISTICS

	<u>Operating</u>	<u>Shipping</u>
Length	16 ft, 2 in.	5 ft, 2 in.
Width	6 ft, 5 in.	2 ft, 8 in.
Height	1 ft, 8 in.	1 ft, 10 in.
Cube	173 cu ft	25 cu ft
Weight	395 lb (with floor)	395 lb (with floor)

REFERENCES

None



15' Inflatable Boat WB0717

BOAT, 15' INFLATABLE

ESSM NUMBER WB0717

DESCRIPTION

The 15' Inflatable Boat WB0717 is a lightweight, multi-purpose boat. The boat is used to transport people, equipment, and supplies, and for numerous other jobs.

The hull is a U-shaped chamber with conical airtight bulkheads that ensure safety and balance of pressure in the different compartments. An additional airtight compartment is the inflatable keel, which gives the bottom a V-shaped configuration.

The boat is equipped with aluminum floorboards, paddles, running lights, an anchor light, a stern light, a boat hook, and the necessary ancillary gear to operate and maintain it.

SPECIFICATIONS

Manufacturer Zodiac
Model Mark III GR
Type 3470
Max. persons on board 8

Load capacity 2205 lb Max. horsepower 65

PHYSICAL CHARACTERISTICS

	Shipping
Length	4 ft, 11 in
Width	2 ft, 6 in.
Height	1 ft, 2 in.
Cube	14 cu ft
Weight	144 lb

REFERENCES

1. Maintenance and Assembly Manual for Zodiac Models Mark I, II, III.

Downloaded from http://www.everyspec.com

SHOP VAN P19700





Shop Van System P19700

SHOP VAN

SYSTEM NUMBER P19700

SYSTEM DESCRIPTION

The Shop Van is a self-contained workshop outfitted to provide full maintenance and repair support for all SUPSALV spill response equipment. The Shop Van System includes the workshop van with spare parts and tools, a 175-Cfm Air Compressor (AC0330), a 40-kW generator (GE0550), and the necessary ancillary equipment to maintain response equipment at a spill site. The heated and air conditioned work area with a large workbench allows maintenance personnel to work comfortably and efficiently in the full range of environmental conditions at the spill site.

SYSTEM COMPONENTS

<u>Item</u>	ESSM Number	<u>Qty</u>
1. Van, Workshop:	VA0508	1
Air Compressor, 175 cfm @ 100 psi, Diesel	AC0330	1
HVAC Unit w/Sleeve	AC2001	1
Containment Pool, Machinery, 10' x 6' x 12"	CP3010	2
Electrical Distribution Panel	GE0001	1
Generator, 40-kW, Diesel, Model CJ4D-40SQ	GE0550	1
Roundsling, Polyester, 16'	SL0012	4



Workshop Van VA0508

VAN, WORKSHOP

ESSM NUMBER VA0508

DESCRIPTION

The Workshop Van VA0508 is a complete, self-contained workshop. It is equipped with a 40-kW diesel-powered generator, a power cord, an external distribution power panel, a 175-cfm, 100-psi diesel-powered air compressor, lighting, heating, ventilation, power tools, spare parts, cabinets for storage, and other items needed to maintain the response equipment.

SPECIFICATIONS

Manufacturer Commercial

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length	20 ft, 0 in.
Width	8 ft, 0 in.
Height	8 ft, 0 in.
Cube	1280 cu ft
Weight	21,400 lb

REFERENCES

None



175-Cfm Air Compressor AC0330

AIR COMPRESSOR, 175 CFM, @ 100 PSI, DIESEL

ESSM NUMBER AC0330

DESCRIPTION

The 175-Cfm Air Compressor AC0330 is a rotary screw-type air compressor driven by a three-cylinder diesel engine. The air compressor is rated at 175 cfm @ 100 psi discharge pressure. The engine and compressor assembly is enclosed in a skid-mounted, sound-insulated, steel enclosure surrounded by a steel frame. The base plate for the air compressor contains forklift pockets to facilitate handling. The fuel source for the compressor is an internally mounted 25-gallon tank.

SPECIFICATIONS

Air Compressor Assembly

Manufacturer	Ingersoll-Rand
Model	P-175-W-JD-U-GPC

Air Compressor	Engine

Manufacturer	Ingersoll-Rand	Manufacturer	John Deere
Model	36005890	Model	3179D
Type	Rotary screw	Starting system	12-volt
No. rotors	2	Speed:	
Capacity	175 cfm	Full load	2500 rpm
Rated pressure	100 psi	No load	1400 rpm
Operating range	70 to 115 psi	Unloader range	110 to 115 psi
Safety valve setpoint	150 psi	Fuel	Diesel
Disch. temp. range	180° to 200° F	Fuel source	Internal 25-gal. tank

Fuel consumption 2 gph

PHYSICAL CHARACTERISTICS

	Operating/Shipping
Length	7 ft, 4 in.
Width	3 ft, 9 in.
Height	4 ft, 8 in.
Cube	129 cu ft
Weight	2632 lb

AIR COMPRESSOR, 175 CFM, @ 100 PSI, DIESEL

ESSM NUMBER AC0330

REFERENCES

- 1. Technical Manual for Low-Pressure Air Compressor, Ingersoll-Rand Model P-175-W-JD-U- GPC.
- 2. Operating, Maintenance, and Parts Manual, Ingersoll-Rand, P/N 35380302.
- 3. Noise Emission Control Maintenance Manual, Ingersoll-Rand Form PCD 685.
- 4. Operator's Manual 3164, 3179, 4219. 4239, 4276, 6329, and 6414 OEM Engines, John Deere Catalog No. OM-RG16407, Issue E-1.
- 5. Parts Catalog 3176, OEM Engine & Accessories (Saran), John Deere, PC3178.
- 6. Component Technical Manual, John Deere, CTM 4 (24 Jan 90).

Downloaded from http://www.everyspec.com





HVAC Unit w/Sleeve AC2001

HVAC UNIT W/SLEEVE

ESSM NUMBER AC2001

DESCRIPTION

The HVAC Unit w/Sleeve AC2001 is a 12,000-BTU through-the-wall air conditioner and heat pump-type unit. The unit maintains a comfortable ambient atmosphere in the workshop van.

SPECIFICATIONS

Manufacturer	Frigidaire
Model	FAH12EJ2T
BTU	12,000
Voltage	230 V ac

PHYSICAL CHARACTERISTICS

\sim	. •	/01		
() ₁	peratin	σ/Sh	1111	าเทก
\mathbf{v}	ociann	8/ DII	ועו	JIIIE

Length	2 ft, 0 in.
Width	1 ft, 7 in.
Height	1 ft, 3 in.
Cube	4 cu ft
Weight	104 lb

REFERENCES

- 1. Frigidaire Installation Instruction 309000911.
- 2. Frigidaire Owner's Guide 309000823.

Downloaded from http://www.everyspec.com

ESSM Number CD0010 Deleted.



10' x 6' x 12" Machinery Containment Pool CP3010

CONTAINMENT POOL, MACHINERY, 10' X 6' X 12"

ESSM NUMBER CP3010

DESCRIPTION

The Machinery Containment Pool CP3010 is a 10' x 6' x 12" urethane berm. It is used to provide a means of catching and containing any oil, fuel, or contaminants leaking or spilled from the operating equipment.

SPECIFICATIONS

Manufacturer Basic Concepts
Fabric material Cooley Urethane

PHYSICAL CHARACTERISTICS

	<u>Operating</u>	Shipping
Length	10 ft, 0 in.	1 ft, 8 in.
Width	6 ft, 0 in.	1 ft, 8 in.
Height	1 ft, 0 in.	6 in.
Cube	60 cu ft	1.5 cu ft.
Weight	56 lb	56 lb

REFERENCES

None



Electrical Distribution Panel GE0001

ELECTRICAL DISTRIBUTION PANEL

ESSM NUMBER GE0001

DESCRIPTION

The Electrical Distribution Panel GE0001 is designed to distribute 240-volt, single phase electric power. The distribution panel has a single 100-amp, 240-volt, three-phase receptacle to receive the 240-volt, three-phase ac power from the 40-kW Diesel Generator GE0550. There are four 50-amp, 125/250-volt, single phase receptacles that distribute 240-volt, single phase ac power to up to four separate vans (example: shop van, bunk van, rigging van, hot tap van, etc.). Any van that is to be connected to the distribution panel must be wired for 240-V ac, single phase power.

SPECIFICATIONS

Manufacturer ESSM Facility

Receptacles:

Input One, 100-amp, 240-volt ac, three-phase Output Four, 50-amp, 240-volt ac, single phase

PHYSICAL CHARACTERISTICS

2 ft, 6 in.
9 in.
3 ft, 9 in.
6.5 cu ft
128 lb

REFERENCE

1. Electrical Panel Container, ESSM Shop Van, NAVSEA Sketch SK0660.



40-kW Diesel Generator GE0550

GENERATOR, DIESEL, 40-kW, MODEL CJ4D-40SQ

ESSM NUMBER GE0550

DESCRIPTION

The 40-kW Diesel Generator GE0550 is a self-contained unit, mounted on a rugged steel base with an integral fuel tank and enclosed in a weather-resistant, sound-attenuated steel enclosure. All generator engine controls and instrumentation are mounted on tilt-out, hinged panels, which are visible through a safety glass window during operation of the generator. Access to the generator and engine is provided through hinged doors. Forklift slots penetrate the width of the base for ease of transportation and handling. Four base tie-down points are installed for securing the unit during transportation, and a center-point lifting point is provided for overhead lifting.

The generator supplies 480/220-volt, three-phase or single phase power to the power distribution system. Power is distributed via four main 220-volt, three-phase distribution terminals; a 240-volt, three-phase temporary power receptacle; two 120/240-volt, single phase, marine twist-lock temporary power receptacles; and two 120-volt, single phase ground fault interrupter (GFI) receptacles.

SPECIFICATIONS

40-Kw Generator Assem	<u>ıbly</u>	Engine	
Manufacturer	Coleman Engineering	Manufacturer	John Deere
Model	CJ4D-40SQ	Model	4045DF150
		No. of cylinders	4
<u>Generator</u>		Bore	4.19 in.
		Stroke	5.0 in.
Manufacturer	Newage International	Displacement	276 cu in.
Model	UCI224C	Compression ratio	17.6:1
Frequency	60 Hz @ 1800 rpm	Horsepower	54 bhp @1800 rpm
Voltage ranges:	240/120 volts, single phase	Starting	Electric, 12 V dc
	480/240/208 volts, three-phase	Rpm (full load)	1800
		Rpm (idle)	850
		Fuel	Diesel
		Fuel consumption	3.88 gph full load
		Fuel tank capacity	80 U. S. gallons

GENERATOR, DIESEL, 40-kW, MODEL CJ4D-40SQ (CONTD) ESSM

ESSM NUMBER GE0550

PHYSICAL CHARACTERISTICS

I Inarating/Shinning	Operating/Shipping
----------------------	--------------------

 Length
 7 ft, 4 in.

 Width
 3 ft, 6 in.

 Height
 5 ft, 11 in.

 Cube
 152 cu ft

Weight 4100 lb (dry weight)

REFERENCES

- 1. Coleman Operation and Maintenance Manual, OMRG25204 (20 May 1996).
- 2. Coleman Parts Catalog, PC2521.

Downloaded from http://www.everyspec.com



16' Polyester Roundslings SL0012 (4 per van)

ROUNDSLING, POLYESTER, 16'

ESSM NUMBER SL0012

DESCRIPTION

The 16' Polyester Roundsling SL0012 is an endless synthetic sling made from a skein (continuous loop or hank) of polyester yarn covered by a double-wall tubular jacket. Each sling is fitted with a screw pin shackle. Four 16' Polyester Roundslings are used for lifting each van to which they are assigned.

SPECIFICATIONS

Sling		Shackle	
Manufacturer	Lift-All	Manufacturer	Crosby
Model	EN240	Part number	G-209-A
Vertical SWL	21,200 lb	Size	1 in.
Choker SWL	17,000 lb	Working load limit	25,000 lb
Basket SWL	42,400 lb	-	
Overall length	16 ft, 0 in.		

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length (operating)	16 ft, 0 in.
Cube (coiled for shipping)	4 cu ft
Weight	18 lb

REFERENCES

1. Lift-All 1998 Catalog.

Downloaded from http://www.everyspec.com

PERSONNEL BUNK VAN P19500



Personnel Bunk Van P19500

PERSONNEL BUNK VAN

SYSTEM NUMBER P19500

SYSTEM DESCRIPTION

The Personnel Bunk Van P19500 provides interim, supplemental accommodations, and a first response capability in remote areas while more adequate facilities (generally a large support vessel) are being mobilized. The bunk van is outfitted with a kitchenette (consisting of a two-burner stove, a sink, and a 6.0 cubic foot refrigerator) or a microwave, all necessary berthing items (mattress, blankets, sheets, and pillow cases), fire extinguishers, smoke alarms, basic toiletries (soap and towels), and other ancillaries. More adequate accommodations would include full head facilities with showers, a galley, and lounge area. When such adequate facilities are available, the bunk van may still be necessary to provide bunks for additional personnel. Power can be supplied from an external source (either by the 30-kW generator in the shop van, by a separate ESSM 5-kW generator, or by commercial power), supplying 240-volt, single phase power. It is impractical to provide personnel berthing for a worst-case remote area spill scenario entirely from in-house assets. Commercially available portable berthing trailers or vans can be leased in some areas. Such commercial facilities would be used to augment the first response SUPSALV bunk vans where required.

SYSTEM COMPONENTS

<u>Item</u>	ESSM Number	<u>Qty</u>
1. PERSONNEL BUNK VAN		1
a. Van, Berthing	VA0734A (Altn)*	
HVAC Unit w/Sleeve	AC2001	1
Roundslings, Polyester, 16'	SL0012	4
b. Van, Berthing	VA0734B	
HVAC Unit w/Sleeve	AC2001	1
Roundslings, Polyester, 16'	SL0012	4

^{*}Alternate ESSM configurations are functionally equivalent and are not shown in the catalog.



Personnel Bunk Van VA0734B (Interior)



Personnel Bunk Van VA0734B

VAN, BERTHING

ESSM NUMBER VA0734

DESCRIPTION

The Berthing Van VA0734 provides interim or supplemental berthing accommodations for first response capability in remote areas. The van can accommodate berthing for 7 people, provide emergency galley accommodations, and provide shelter from the environment. The van is equipped with bunks, lockers, lights, a kitchenette or microwave, a portable water tank, a refrigerator, a coffee maker, a heater, and an air conditioner. Electrical power is supplied by external sources, an ESSM generator, a ship's generator, or commercial power if available. A 60-hertz, 240-volt, single phase power source is required for the van.

SPECIFICATIONS

Manufacturer Commercial

PHYSICAL CHARACTERISTICS

Operating/Shipping

20 ft, 0 in.
8 ft, 0 in.
8 ft, 0 in.
1280 cu ft
6500 lb

REFERENCE

None





HVAC Unit w/Sleeve AC2001

HVAC UNIT W/SLEEVE

ESSM NUMBER AC2001

DESCRIPTION

The HVAC Unit w/Sleeve AC2001 is a 12,000-BTU through-the-wall air conditioner and heat pump-type unit. The unit maintains a comfortable temperature in the Berthing Van.

SPECIFICATIONS

Manufacturer	Frigidaire
Model	FAH12EJ2T
BTU	12,000
Voltage	230 V ac

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length	2 ft 0 in.
Width	1 ft 7 in.
Height	1 ft 3 in.
Cube	4 cu ft
Weight	104 lb

REFERENCES

- 1. Frigidaire Installation Instruction 309000911.
- 2. Frigidaire Owner's Guide 309000823.

Downloaded from http://www.everyspec.com

ESSM Number CD0010 Deleted.



16' Polyester Roundslings SL0012 (4 per van)

ROUNDSLING, POLYESTER, 16'

ESSM NUMBER SL0012

DESCRIPTION

The 16' Polyester Roundsling SL0012 is an endless synthetic sling made from a skein (continuous loop or hank) of polyester yarn covered by a double wall tubular jacket. Four 16' Polyester Roundslings are used for lifting the van to which they are assigned.

SPECIFICATIONS

Sling		<u>Shackle</u>	
Manufacturer	Lift-All	Manufacturer	Crosby
Model	EN240	Part number	G-209-A
Vertical SWL	21,200 lb	Size	1 in.
Choker SWL	17,000 lb	Working load limit	25,000 lb
Basket SWL	42,400 lb		
Overall length	16 ft, 0 in.		

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length (operating)	16 ft, 0 in.
Cube (coiled for shipping)	4 cu ft
Weight	18 lb

REFERENCES

1. Lift-All 1998 Catalog.

Downloaded from http://www.everyspec.com

SOLAS SHIPBOARD PERSONNEL BUNK VAN P19550



SOLAS Shipboard Personnel Bunk Van P19550

PERSONNEL BUNK VAN, SHIPBOARD, SOLAS

SYSTEM NUMBER P19550

SYSTEM DESCRIPTION

The SOLAS Shipboard Personnel Bunk Van P19550 provides interim, supplemental accommodations, and a first response capability in remote areas while more adequate facilities (generally a large support vessel) are being mobilized. The bunk van is outfitted with four bunks and all the necessary berthing items (mattresses, blankets, sheets, and pillow cases), fire extinguishers, smoke alarms, basic toiletries (soap and towels), and accommodations that also include a full downsized head with a shower. When adequate facilities are available, the bunk van may still be necessary to provide bunks for additional personnel. Power can be supplied from an external source (either by the 30-kW generator in the shop van, a separate ESSM 5-kW generator, or by commercial power), supplying 208-volt, single phase, ac power.

The SOLAS Shipboard Personnel Bunk Van has been certified for use aboard ships certified under 46 CFR, Subchapters 1, 1-A, L, and SOLAS.

SYSTEM COMPONENTS

<u>Item</u>	ESSM Number	<u>Qty</u>
1. Van, Berthing, Shipboard	VA0735	1
Roundslings, Polyester, 16'	SL0012	4



SOLAS Shipboard Personnel Bunk Van VA0735

VAN, BERTHING, SHIPBOARD

ESSM NUMBER VA0735

DESCRIPTION

The Shipboard Berthing Van VA0735 provides interim or supplemental berthing accommodations for first response capability in remote areas. the bunk van is outfitted with four bunks and all the necessary berthing items (mattress, blankets, sheets, and pillow cases), fire extinguishers, smoke alarms, basic toiletries (soap and towels), and accommodations that also include a full downsized head with a shower. When adequate facilities are available, the bunk van may still be necessary to provide bunks for additional personnel. Power can be supplied from an external source (either by the 30-kW generator in the shop van, a separate ESSM 5-kW generator, or by commercial power), supplying 208-volt, single phase, 60-Hz, ac power via a 50-foot, four wire pig tail type power cord.

The Shipboard Berthing Van is designed with an entrance door at each end and two 8' x 7' berthing areas. Each berthing area has two shipboard style bunks, a drop down table, a chair, two lockers and a sink. Separating the two berthing areas is a 2' x 3' head area containing a shower, hot water heater, storage area and a toilet. The head has two lockable privacy doors, one for each berthing area.

The SOLAS Shipboard Personnel Bunk Van has been certified for use aboard vessels certified under 46 CFR, Subchapters 1, 1-A, L, and SOLAS.

SPECIFICATIONS

Manufacturer Sonic Enclosures Ltd

Model 20' Temporary Accommodation Module

Exterior connections:

Input power Pin & sleeve, 208 volts, single phase, 60 Hz

Ground studs 2

Deck drains Two 1 1/2" male camlock fittings

Fresh water 3/4" male camlock fitting
Gray water drain 1 1/4" male camlock fitting
Black water drain 1 1/2" male camlock fitting

Communications Shipboard interface box for hookup to ships' communications data

and alarm systems

Emergency fire dampers 3 T-handle manual pull-type shutoffs

VAN, BERTHING, SHIPBOARD

ESSM NUMBER VA0735

PHYSICAL CHARACTERISTICS

	Operating/Shipping	
Length	20 ft, 0 in.	
Width	8 ft, 0 in.	
Height	8 ft, 0 in.	
Cube	1280 cu ft	
Weight	22,000 lb	

REFERENCES

1. USCG As-Built Dossier For Tempory Accommodations Modules.

Downloaded from http://www.everyspec.com



16' Polyester Roundslings SL0012 (4 per van)

ROUNDSLING, POLYESTER, 16'

ESSM NUMBER SL0012

DESCRIPTION

The 16' Polyester Roundsling SL0012 is an endless synthetic sling made from a skein (continuous loop or hank) of polyester yarn covered by a double-wall tubular jacket. Each sling is supplied with a 1-inch screw pin-type shackle. Four 16' Polyester Roundslings are used for lifting the van to which they are assigned.

SPECIFICATIONS

Sling		Shackle	
Manufacturer	Lift-All	Manufacturer	Crosby
Model	EN240	Part number	G-209-A
Vertical SWL	21,200 lb	Size	1 in.
Choker SWL	17,000 lb	Working load limit	25,000 lb
Basket SWL	42,400 lb	_	
Overall length	16 ft, 0 in.		

PHYSICAL CHARACTERISTICS

Operating/Shipping

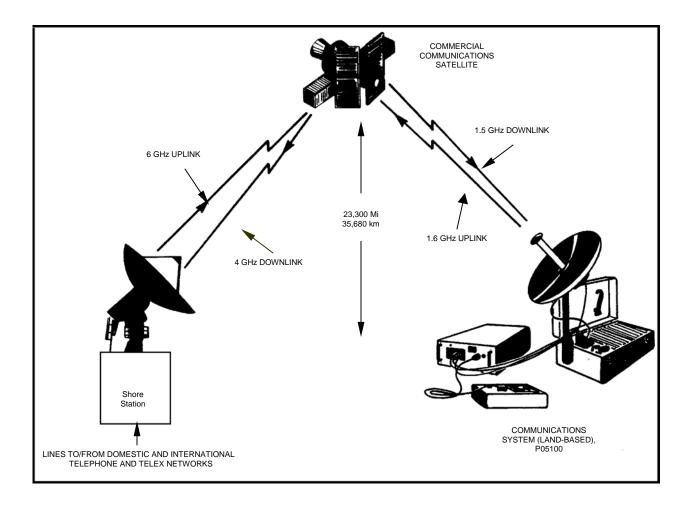
Length (operating)	16 ft, 0 in.
Cube (coiled for shipping)	4 cu ft
Weight	18 lb

REFERENCES

1. Lift-All 1998 Catalog.

Downloaded from http://www.everyspec.com

COMMUNICATIONS SYSTEM (LAND-BASED) P05100



Communications System (Land-Based) P05100

COMMUNICATIONS SYSTEM (LAND-BASED)

SYSTEM NUMBER P05100

SYSTEM DESCRIPTION

The Land-Based Communications System P05100 is a complete high-quality terminal used for voice, data, or Telex communications. There are five separate configurations of the communications system available for the end user, depending on the space available and power requirements. The system uses a geostationary International Maritime Satellite Organization (INMARSAT) satellite as a repeater to one or more shore stations. The shore stations connect the land-based communications system into the domestic and international telephone and Telex circuits. This operation makes available a worldwide communications network via satellite.

SYSTEM COMPONENTS

<u>Item</u>	ESSM Number	<u>Qty</u>
1. Phone, Portable SATCOM System, Model TCS-9200	PH0923 (Altn)	1
2. Phone, Portable SATCOM System, Model TCS-9700	PH0924 (Altn)	1
3. Phone, Portable SATCOM System Planet 1 #1001	PH0930 (Altn)	1
4. Phone, Solsat 1, Ruggedized Communication System	PH0935 (Altn)	1
5. Phone, Satellite, Iridium	PH1730 (Altn)	1
6. Accessory Kit, For Sat PhonePH1731	PH1732 (Altn)	1
Phone, Satellite, Iridium	PH1730 (Altn)	1

Downloaded from http://www.everyspec.com

ESSM Number PH0921 Deleted.



Portable SATCOM Unit PH0923



Portable SATCOM System PH0923

PHONE, PORTABLE SATCOM SYSTEM, MODEL TCS-9200

ESSM NUMBER PH0923

DESCRIPTION

The Portable SATCOM System Phone PH0923 is a complete, high-quality terminal used for voice, data, or Telex communication. The system uses a geostationary International Maritime Satellite Organization (INMARSAT) satellite as a repeater to one or more shore stations. The shore stations connect the PH0923 into the domestic and international telephone and Telex circuits. This operation makes a worldwide communications network available via satellite.

As part of the portable SATCOM system phone, a high-gain, directive antenna is aimed at the satellite to be used. Once the satellite is acquired, duplex voice/data or Telex communication channels may be established in a manner similar to ordinary telephone or Telex machine usage.

SPECIFICATIONS

Manufacturer	Telesystems Inc.
Model	TCS-9200

Power requirements 290 W, 110 V ac $\pm 10\%$, single phase,

47-64 Hz, 0.29 kVA (Recommended: 0.5 kVA transformer, if required)

Environmental

Ambient temperature -35° to +55°C
Relative humidity 95% max. at 40°C
Precipitation 10 cm/hour max.

General

Transmit frequency range 1636.5 to 1646.0 MHz
Receive frequency range 1535.0 to 1543.5 MHz
Gain-to-noise temp ratio (G/T) Better than -4 dBK

PHYSICAL CHARACTERISTICS

<u>TSC-9200</u>	Shipping	<u>Antenna</u>	Shipping
Length	2 ft, 5 in.	Height	2 ft, 5 in.
Width	1 ft, 9 in.	Diameter	8 in.
Height	10 in.	Cube	1 cu ft
Cube	4 cu ft	Weight	5 lb
Weight	78 lb		

PHONE, PORTABLE SATCOM SYSTEM, MODEL TCS-9200

ESSM NUMBER PH0923

REFERENCES

- 1. TCS-9200, Operations and Instruction Manual.
- 2. TCS-9200, Maintenance Manual.
- 3. TCS-9200, Schematics Manual.

Downloaded from http://www.everyspec.com



Portable SATCOM System PH0924



Portable SATCOM System PH0924

PHONE, PORTABLE SATCOM SYSTEM, MODEL TCS-9700

ESSM NUMBER PH0924

DESCRIPTION

The Portable SATCOM System Phone PH0924 is a complete, self-contained, high-quality terminal used for voice, data, or Telex communication. The system uses an International Maritime Satellite Organization (INMARSAT) satellite as a repeater to one or more shore stations. All that is required is a power source to power up the TCS-9700 ultralite phone system. The TCS-9700 can operate on almost any power source. The system can operate either on direct current (150-375 V dc) or alternating current (85-264 V ac @ 47-440 Hz). The TCS-9700 automatically adapts itself to either power source. A portable generator or battery/inverter setup provides the ultimate in portable independence. The TCS-9700 is highly efficient, with a power consumption of 75 watts idle and 180 watts when transmitting.

SPECIFICATIONS

Manufacturer	Mobile Telesystems Inc.
Manufacturer	WIGOIIC TCICSYSTCIIIS IIIC.

Model TCS-9700

Power requirements

Idle 75 W Transmitting 180 W

Environmental conditions

Ambient temperature -35° to 55°C
Relative humidity 95% max. at 40°C
Precipitation 10 cm/hour max.

General

Transmit frequency range 1636.5 to 1645.0 MHz Receive frequency range 1535.0 to 1543.5 MHz

PHYSICAL CHARACTERISTICS

	<u>Shipping</u>
Length	2 ft, 3 in.
Width	1 ft, 2 in.
Height	1 ft, 8 in.
Cube	5 cu ft
Weight	66 lb

PHONE, PORTABLE SATCOM SYSTEM, MODEL TCS-9700

ESSM NUMBER PH0924

REFERENCES

- 1. Operator's Manual for the Panasonic Cordless Phone, Model KX-T9006TW.
- 2. Operator's Manual for the Transportable Communications System, Model TCS-9800.

Downloaded from http://www.everyspec.com



Shipping Configuration for PH0930



Portable SATCOM System PH0930

PHONE, PORTABLE SATCOM SYSTEM PLANET 1 #1001

ESSM NUMBER PH0930

DESCRIPTION

The Planet 1 Portable SATCOM Phone System PH0930 consists of a base unit including electronics, antenna, rechargeable LI-Ion battery, and smart card reader, a handset with full featured keypad and clear display, a handset cradle with ports for peripheral equipment such as fax machine, personal computer, or an external phone.

The basic functions of the Planet 1 satellite phone include 4.8-Kbps voice operation, 2.4-Kbps fax communications, and 2.4-Kbps data communications. The Planet 1 phone also supports transmission of dial tones (DTMF) for accessing user-driven telephone information services.

The Planet 1 phone operates from a battery, ac charger, or optional dc converter/charger utilizing a vehicle battery. The battery will operate the phone for approximately 1.2 hours (minimum) of continuous transmission and receiving. When connected to the satellite but not transmitting or receiving, the Planet 1 phone goes into a power saver mode, which increases the operational life of the battery to approximately 4.5 hours.

SPECIFICATIONS

COMSAT Corp. Manufacturer Planet 1 #1001 Model

Satellite:

Configuration Four INMARSAT-3 satellites in geosynchronous orbit for total

global coverage

Spot beams for voice, fax, and data communications channels Beams Frequency range

1626.5 to 1660.5 MHz (transmitting); 1525.0 to 1559.0 MHz

(receiving)

Phone:

Antenna type Flat type patch antenna

Communication functions:

Voice 4.8 Kbps Advanced Multi-Band Excitation (AMBE) encoding

2.4 Kbps, Group 3 Fax

Asynchronous data 2.4 Kbps

Interfaces:

Telephone RJ-11 2-wire modular jack RJ-11 2-wire modular jack Fax

Special 14-pin connector adapter cable (option) converts to 9-pin Data

D-subminiature (female)

Data rate 2400 bps

PHONE, PORTABLE SATCOM SYSTEM PLANET 1 #1001

ESSM NUMBER PH0930

PHYSICAL CHARACTERISTICS

 $\begin{array}{ccc} \text{Length} & 1 \text{ ft, 0 in.} \\ \text{Width} & 8 \text{ 1/4 in.} \\ \text{Height} & 1 \text{ 5/8 in.} \\ \text{Cube} & 1 \text{ cu ft} \\ \text{Weight} & 6 \text{ lb} \\ \end{array}$

REFERENCES

1. Planet 1 STU-III Instruction Book, June 1997.

Downloaded from http://www.everyspec.com



Solsat 1 Ruggedized Communication Phone System PH0935

PHONE, SOLSAT 1, RUGGEDIZED COMMUNICATION SYSTEM

ESSM NUMBER PH0935

DESCRIPTION

The Solsat 1 Ruggedized Communication Phone System PH0935 consists of a base unit including electronics; an antenna; a rechargeable NiCd battery pack with a fast charge power supply; an operator handset with full featured keypad and clear display; a handset cradle with ports for peripheral equipment such as fax machines, personal computer, or an external phone; and various cables and adapters to set up and operate the unit.

The basic communication functions of the Solsat 1 phone include 4.8-Kbps voice operation, 2.4-Kbps fax communications, and 2.4-Kbps data communications. The Planet 1 phone also supports transmission of dial tones (DTMF) for accessing user-driven telephone information services.

The Solsat 1 phone can be powered from several different sources: an external AC aDpaptor, a DC source, a solar panel, or the internal NiCd battery pack this provides a high degree of portability and independence of specific power sources

SPECIFICATIONS

Manufacturer Thrane & Thrane

Model Solsat 1

Satellite Four INMARSAT-3 satellites in geosynchronous orbit for total

global coverage

Power supply 10.5-18.5 V dc

Frequency range:

Transmitting 1626.5 to 1660.5 MHz
Receiving 1525.0 to 1559.0 MHz

Antenna Directional patch array antenna

PHYSICAL CHARACTERISTICS

Length 1 ft, 5 in.
Width 1 ft, 1 in.
Height .7 in.
Cube 1 cu ft
Weight 18 lb

REFERENCES

1. TT-3060A Capsat® Mobile Telephone User's Manual.





Iridium Satellite Phone PH1730

PHONE, SATELLITE, IRIDIUM

ESSM NUMBER PH1730

DESCRIPTION

The Iridium Satellite Phone PH1730 consists of an operator handset with a full featured keypad and clear display, handheld satellite phone, two rechargeable Lithium-Ion battery packs, an ac- and dc-powered battery charger, and various cables and adapters to set up and operate the unit.

The Iridium Satellite LLC provides global mobile satellite voice and data service with complete coverage of the earth (including oceans, airways and polar regions). Through a constellation of 66 lowearth orbiting (LEO) satellites operated by The Boeing Company, Iridium delivers essential communications services to and from remote areas where no other form of communication is available. The service is ideally suited for industrial applications, such as defense/military, emergency services, maritime, mining, forestry, and oil recovery operations.

SPECIFICATIONS

Manufacturer	Motorola
Model	9500 series

Satellite 66 low orbiting satellites Power supply 110 V ac and 12 V dc

Volume Under 489 cc (30 cubic inches)
Continuous talk time Up to 2.0 hrs w/standard battery

3.2 hrs w/ high capacity battery 6.5 hrs w/ ultra high capacity battery

Standby time Up to 20 hrs w/standard battery

30 hrs w/ high capacity battery 65 hrs w/ ultra high capacity battery

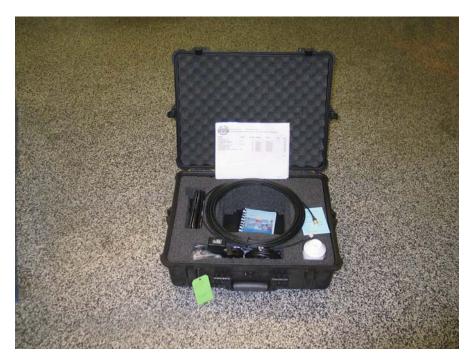
PHYSICAL CHARACTERISTICS

	Shipping
Length	1 ft, 6.5 in.
Width	1 ft, 2 in.
Height	5 in.
Cube	1 cu ft
Weight	12 lb

REFERENCES

- 1. 9500 Portable Telephone User's Guide, 68P09420A79-0.
- 2. 9501 Pager User's Manual, 6881031B15-O.
- 3. Iridium Services User Manual, INAUG1098.





Accessory Kit, For Satellite Phone PH1731 (PH1732)

ACCESSORY KIT, FOR SAT PHONE PH1731

ESSM NUMBER PH1732

The Accessory Kit, For Sat Phone PH1731 (PH1732) is comprised of the necessary ancillary equipment to set up and operate the Satellite Phone PH1731 and is shipped in a hard side plastic case.

SPECIFICATIONS

<u>Item</u>	ESSM Number	<u>Qty</u>
Accessory case, Model M9505A		1
Adapter, remote, antenna		1
Antenna cable, 60'		1
Antenna, shipboard mount		1
Cable, computer to data adapter		1
Charger, ac, adapter for solar panel		1
Data adapter		1
Inventory, laminated		1
Iridium data services CD		1
Iridium M9505A User's Guide		1
Iridium phone stand (3-leg)		1
Magnetic mount, antenna, large (17")		1
Magnetic mount, antenna,, small (5')		1
Manual, Direct Internet Data User's Guide		1
Manual, Using Commercial E-mail Account		1
Phone, Satellite, Model M9505A	PH1731	1
Solar panel, w/internal battery		1

PHYSICAL CHARACTERISTICS

	Shipping
Length	1 ft, 11 in.
Width	1 ft, 6 in.
Height	9 in.
Cube	2 cu ft
Weight	23 lb

REFERENCES

None





Iridium Satellite Phone PH1731

PHONE, SATELLITE, IRIDIUM

ESSM NUMBER PH1731

DESCRIPTION

The Iridium Satellite Phone PH1731 consists of an operator handset with a full featured keypad and clear display, handheld satellite phone, two rechargeable Lithium-Ion battery packs, an ac- and dc-powered battery charger, and various cables and adapters to set up and operate the unit.

The Iridium Satellite LLC provides global mobile satellite voice and data service with complete coverage of the earth (including oceans, airways and polar regions). Through a constellation of 66 lowearth orbiting (LEO) satellites operated by The Boeing Company, Iridium delivers essential communications services to and from remote areas where no other form of communication is available. The service is ideally suited for industrial applications, such as defense/military, emergency services, maritime, mining, forestry, and oil recovery operations.

SPECIFICATIONS

Manufacturer	Motorola
Model	9505A series

Satellite 66 low orbiting satellites Power supply 110 V ac and 12 V dc

Volume Under 489 cc (30 cubic inches)
Continuous talk time Up to 2.0 hrs w/standard battery

3.2 hrs w/ high capacity battery

6.5 hrs w/ ultra high capacity battery

Standby time Up to 20 hrs w/standard battery

30 hrs w/ high capacity battery 65 hrs w/ ultra high capacity battery

PHYSICAL CHARACTERISTICS

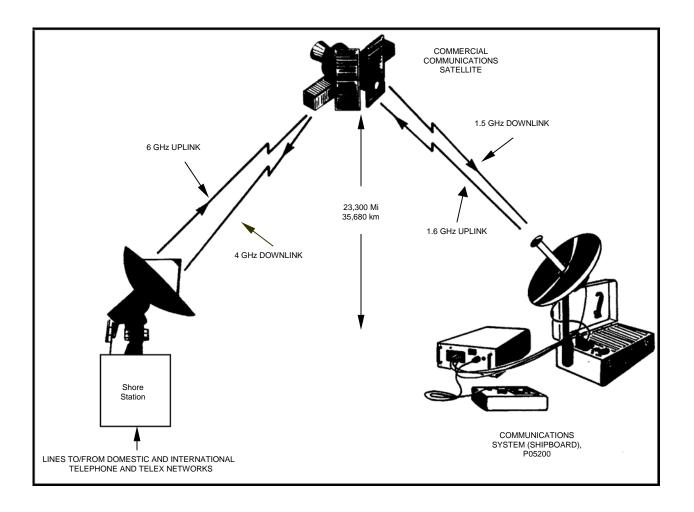
<u>Shipping</u>
11 in.
8 in.
7 in.
1 cu ft
4 lb

REFERENCES

1. 9505A Portable Telephone User's Guide, 68P09420A79-0.

Downloaded from http://www.everyspec.com

COMMUNICATIONS SYSTEM (SHIPBOARD) P05200



Communications System (Shipboard) P05200

COMMUNICATIONS SYSTEM (SHIPBOARD)

SYSTEM NUMBER P05200

SYSTEM DESCRIPTION

The Shipboard Communications System P05200 is a complete, high-quality terminal used for voice or data communications. There are three separate configurations of the communications system available for the end user, depending on the space available and power requirements. All three systems use a geostationary International Maritime Satellite Organization (INMARSAT) satellite as a repeater to one or more shore stations. The shore stations connect the shipboard communications system into the domestic and international telephone and Telex circuits. This operation makes a worldwide communications network via satellite available to vessels at sea.

The PH0920 and PH0922 are containerized systems that, once set up, allow the container to be used as an environmentally friendly workspace and communications room. The container provides shelter from the elements and is air conditioned and heated.

The PH0940 Ruggedized Communications System Phone is a briefcase-size unit that provides ease in portability due to its size. While providing excellent voice communication, data capability is reduced in comparison to the PH0920 and PH0922, and the end user will sacrifice climate controlled workspace and communications room for portability.

All three systems, while primarily designed for shipboard applications, may be used in a landside application.

SYSTEM COMPONENTS

<u>Item</u>	ESSM Number	<u>Qty</u>
1. Communications System (Shipboard)		1
a. Phone, Shipboard SATCOM System, MCS 9120, 8' x 10' container	PH0920 (Altn)	
HVAC Unit, w/Sleeve	AC2001	1
Faxphone	OE2068 (not shown)	1
Radio, VHF, Marine Mobile, Icom (58-Channel)	RA1831	1
Roundsling, Polyester, 16'	SL0012	4
b. Phone, Shipboard SATCOM System, MCS 9100, 8' x 8' container	PH0922 (Altn)	
HVAC Unit, w/Sleeve	AC2001	1
Faxphone	OE2068 (not shown)	1
Radio, VHF, Marine Mobile, Icom (58-Channel)	RA1831	1
Roundsling, Polyester, 16'	SL0012	4
c. Phone, Sea Pak-M. Maritime Mini, w/Stabilized Antenna	PH0940 (Altn)	



SATCOM Van PH0920



SATCOM Van PH0920 Interior

PHONE, SHIPBOARD SATCOM SYSTEM, MCS 9120, 8' X 10' CONTAINER

ESSM NUMBER PH0920

DESCRIPTION

The Shipboard SATCOM Phone System PH0920 is a containerized, high-quality terminal used for voice and data communications. The system uses a geostationary International Maritime Satellite Organization (INMARSAT) satellite as a repeater to one or more shore stations. The shore stations connect the PH0920 phone system into a domestic and international telephone network. The result of this operation is to make a worldwide communications network via satellite available to vessels at sea.

On board the ship, as a part of the PH0920 system, is a high-gain, highly directional antenna aimed at the satellite to be used. Once aimed at the satellite, the terminal will receive a continuously transmitted signal that, along with the ship's gyro, will keep the antenna aimed at the satellite as the ship changes geographical locations and headings. Once the satellite is acquired, duplex voice and data communication channels may be established in a manner similar to using the telephone.

SPECIFICATIONS

Manufacturer	Telesystems Inc.
Model	MCS 9120

General

Transmit frequency range 1636.5 to 1645.0 MHz
Receive frequency range 1535.0 to 1543.5 MHz
Gain-to-noise temp. ratio (G/T) Better than -4 dB

Environmental

Ambient temperature -35° to +55°C (above deck); 0 to +45°C (below deck)

Relative humidity 95% max @ 40°C

Power $110/220 \text{ V ac} \pm 10\%$, single phase,

47-64 Hz, 0.5 kVA

PHYSICAL CHARACTERISTICS

	Shipping
Length	9 ft, 10 in
Width	8 ft, 0 in.
Height	8 ft, 0 in.
Cube	630 cu ft
Weight	6880 lb

PHONE, SHIPBOARD SATCOM SYSTEM, MCS 9120, 8' X 10' CONTAINER (CONTD)

ESSM NUMBER PH0920

REFERENCES

- 1. MCS 9120, Operations and Installation Manual.
- 2. MCS 9120, Maintenance Manual.
- 3. MCS 9120, Schematic Manual.

Downloaded from http://www.everyspec.com



SATCOM Van PH0922



SATCOM Van Interior PH0922

PHONE, SHIPBOARD SATCOM SYSTEM, **MCS 9100, 8' X 8' CONTAINER**

ESSM NUMBER PH0922

DESCRIPTION

The Shipboard SATCOM Phone System PH0922 is a containerized, high-quality terminal used for voice The system uses a geostationary International Maritime Satellite and data communications. Organization (INMARSAT) satellite as a repeater to one or more shore stations. The shore stations connect the PH0922 phone into the domestic and international telephone circuits. The end result of this operation is to make a worldwide communications network via satellite available to vessels at sea.

On board the ship, as part of the PH0922 system, is a high-gain, highly directive, vertically-referenced antenna that is aimed at the satellite being used. After the antenna is aimed at the satellite, the terminal will receive a continuously transmitted signal that, along with the ship's gyro, will keep the antenna aimed at the satellite as the ship changes geographical locations and headings. Once the satellite link is acquired, duplex voice and data communication channels may be established in a manner similar to using the telephone.

SPECIFICATIONS

Manufacturer	Telesystem Inc.
Model	MCS 9100

Transmit frequency range 1636.5 to 1645.0 MHz Receive frequency range 1535.0 to 1543.5 MHz Gain-to-noise temp. ratio (G/T) Better than -4 dB

Ambient temperature -35° to $+55^{\circ}$ C (above deck); $0 \text{ to } +45^{\circ}\text{C} \text{ (below deck)}$

95% max at 40°C Relative humidity

110/220 V ac $\pm 10\%$, single phase, Power

47-64 Hz, 0.5 kVA

PHYSICAL CHARACTERISTICS

	Shipping
Length	8 ft, 0 in.
Width	8 ft, 0 in.
Height	8 ft, 0 in.
Cube	512 cu ft
Weight	4194 lb

PHONE, SHIPBOARD SATCOM SYSTEM, MCS 9100, 8' X 8' CONTAINER (CONTD)

ESSM NUMBER PH0922

REFERENCES

- 1. MCS9100 Operations and Installation Manual.
- 2. MCS9100 Maintenance Manual.
- 3. MCS9100 Schematics Manual.

Downloaded from http://www.everyspec.com





HVAC Unit w/Sleeve AC2001

HVAC UNIT W/SLEEVE

ESSM NUMBER AC2001

DESCRIPTION

The HVAC Unit w/Sleeve AC2001 is a 12,000-BTU through-the-wall air conditioner and heat pump unit. It is designed to maintain a comfortable ambient atmosphere in the space being conditioned.

SPECIFICATIONS

Manufacturer Frigidaire
Model FAH12EJ2T
BTU 12,000
Volts 230 V ac

PHYSICAL CHACTERISTICS

Operating/Shipping

Length 2 ft, 0 in.
Width 1 ft, 7 in.
Height 1 ft, 3 in.
Cube 4 cu ft
Weight 104 lb

REFERENCES

- 1. Frigidaire Installation Instruction 309000911.
- 2. Frigidaire Owner's Guide 309000823.



VHF Marine Mobile Radio RA1831

RADIO, VHF, MARINE MOBILE, ICOM (58 CHANNEL)

ESSM NUMBER RA1831

DESCRIPTION

The Icom VHF Marine Mobile Radio RA1831 is a marine VHF/FM transceiver with intercom features and a public address system in a moisture-resistant console. The radio requires a supply voltage of 13.8-volt dc negative ground and operates in the frequency range of 156-163 MHz. The radio has 58 programmed marine transmit/receiver channels and 10 weather channels.

The radio has the following advanced features: voltage source deviation indicator; 25W of high transmission output power; dual watch and a variety of scans; 20 user-programmed memory channels; momentary high power on Channels 13 and 67; single-tone, double high-tone, and double low-tone beeps; high sensitivity and strong intermodulation rejection; and a built-in lithium battery to retain the information programmed into the memory channels. The life of the lithium battery is approximately 5 years. The Icom radio models IC-M56, IC-M58, and IC-M402S are currently in use in the ESSM System with appropriate instruction manuals. All models are functionally equivalent.

SPECIFICATIONS

Manufacturer Icom
Model(s) IC-M56
IC-M58

IC-M402S

Usable temperature range -20° to +60°C (-4 to +140°F) Power supply voltage 13.8 V dc negative ground

Channels:

Transmit 58 Weather 10

Receiver:

Frequency range 156 to 163 MHz

Sensitivity .3µV for 12 dB SINAD Audio output power 4W with a 4-ohm load

Intermediate frequency 1st: 21.8 MHz; 2nd: 455 kHz

Transmitter:

Frequency range 156 to 157.5 MHz Output power 25 W high; 1 W low

RADIO, VHF, MARINE MOBILE, ICOM (58-CHANNEL) (CONTD)

ESSM NUMBER RA1831

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length8 in.Width7 in.Height2 in.Cube1 cu ftWeight3 lb

REFERENCES

- 1. Instruction Manual, Icom IC-M56.
- 2. Instruction Manual, Icom IC-M58.
- 3. Instruction Manual, Icom IC-M402S.

Downloaded from http://www.everyspec.com



16' Polyester Roundslings SL0012 (4 per van)

ROUNDSLING, POLYESTER, 16'

ESSM NUMBER SL0012

DESCRIPTION

The 16' Polyester Roundsling SL0012 is an endless synthetic sling made from a skein (continuous loop or hank) of polyester yarn covered by a double-wall tubular jacket. Each sling is fitted with a screw pin shackle. Four 16' Polyester Roundslings are used for lifting the van to which they are assigned.

Shackle

SPECIFICATIONS

Sling

	SHACKIE	
Lift-All	Manufacturer	Crosby
EN240	Part number	G-209-A
21,200 lb	Size	1 in.
17,000 lb	Working load limit	25,000 lb
42,400 lb		
16 ft, 0 in.		
	EN240 21,200 lb 17,000 lb 42,400 lb	Lift-All Manufacturer EN240 Part number 21,200 lb Size 17,000 lb Working load limit 42,400 lb

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length (operating)	16 ft, 0 in.
Cube (coiled for shipping)	4 cu ft
Weight	18 lb

REFERENCES

1. Lift-All 1998 Catalog.



Mini Maritime Sea Pak-M Phone PH0940

PHONE, SEA PAK-M, MARITIME MINI, W/STABLIZED ANTENNA

ESSM NUMBER PH0940

DESCRIPTION

The Maritime Mini Sea Pak-M Phone PH0940 provides telephone satellite services between fixed land users and mobile stations. The Maritime Mini Sea Pak-M Phone also offers CCITT Group III facsimile at 9600 baud and full duplex data services up to 9600 baud. The Maritime Mini Sea Pak-M Phone can be powered from several different sources: an external ac adaptor, a dc power source, a solar panel, or the internal NiCd battery pack. The ability to use multiple power sources provides a high degree of portability and independence of specific power sources.

The Maritime Mini Sea Pak-M Phone consists of the following components: an electronics unit, a stabilized antenna, an operator handset, a NiCd battery pack, a compass, manuals, antenna cables, and a lightweight power supply.

SPECIFICATIONS

Manufacturer Thrane & Thrane

Model TT-3064A

Transmit frequency range 1626.5 MHz to 1660.5 MHz Receive frequency range 1525.0 MHz to 1559.0 MHz Ambient temperature -25°C to +55°C operating; -40° C to $+80^{\circ}$ C storage

95% non-condensing at +40°C Relative humidity

Power 10.5 - 32.0 V dc floating, $\pm 0.3\%$, min. 5W to max. 10W,

120-V ac power supply

PHYSICAL CHARACTERISTICS

Shipping

Length 1 ft, 9 in. Width 10 in. Height 1 ft, 3 in. Cube 2 cu ft Weight 32 lb

PHONE, SEA PAK-M, MARITIME MINI, W/STABLIZED ANTENNA (CONTD)

ESSM NUMBER PH0940

REFERENCE

- TT3060A Capsat[®] Mobile Telephone User Manual.
 Sea Pak-M Quick Start User's Guide, LSS-99434.
- 3. Solsat Phone Communication System Equipment Handbook, LSS94429.
- 4. Fax/Phone Switch for Mini-M User's Manual

COMMUNICATIONS SYSTEM (RANGE ENHANCING) P05300





Range Enhancing Communications System P05300

COMMUNICATIONS SYSTEM (RANGE ENHANCING)

SYSTEM NUMBER P05300

DESCRIPTION

The Range Enhancing Communications System P05300 consist of a base station radio/repeater, with encryption software, a 110-volt ac and a 12-volt dc power cable, an antenna, a 12-volt gel cell battery used for a backup power source, and an instruction manual.

The unit can function either as a stand-alone radio or as a repeater for other radios. There may be situations in which some or all of the remote sites cannot communicate directly with the base radio, as, for example, with oil recovery equipment or with base stations that are out of range. In these cases a "repeater" radio can be used to extend the effective range between units by placing it between the base station and the remote(s). The repeater must have line-of-sight transmission and be within range of both the base and the intended remote radios. The electrical power for the base station operation is independent of the radio unit(s). It is recommended to run the repeater radio with ac power or other continuous power source, so that the radio can be left on 24 hours a day. At very least it must be on whenever any of the remote radios in its area of coverage are scheduled for operation.

SYSTEM COMPONENTS

<u>Item</u>	ESSM Number	<u>Qty</u>
1. Radio/Repeater, Marine, VHF, Portable	RA0905	1





Portable VHF Marine Radio/Repeater RA0905

RADIO/REPEATER, MARINE, VHF, PORTABLE

ESSM NUMBER RA0905

DESCRIPTION

The Portable VHF Marine Radio/Repeater RA0905 is a self-contained, portable base station/repeater capable of normal or encrypted transmissions. Its features include programmable frequencies, a palm microphone, a 5-watt speaker, and removable printed circuit cards for easy servicing and future upgrading. An internal battery allows a change to low RF power for 30 minutes of operation during an ac power failure. The unit has a 110/220-volt ac or 12-volt dc (selectable) power supply.

SPECIFICATIONS

Manufacturer	Motorola
Model	P1820AX
Modes	128
AC voltage range	90-132 V ac
	180-264 V ac
AC frequency input	47-63 Hz
External dc power input	11-16 V dc
Emergency battery capacity	30 minutes

Shinning

PHYSICAL CHARACTERISTICS

	Silippilig
Length	1 ft, 8 in.
Width	8 in.
Height	1 ft, 3 in.
Cube	1.5 cu ft
Weight	38 lb

REFERENCE

1. Motorola Portable Repeater Il P1820AX and P1821AX Instruction Manual 68P81074C85-A.

Downloaded from http://www.everyspec.com

BEACH TRANSFER SYSTEM P01100



Beach Transfer System Van



Roundsling SL0012



Beach Transfer System Tool Box TL0090



Beach Transfer Trailer TR2114



Farm-Type Tractor Model 2120 TT2009



All-Terrain Vehicle (ATV) VE2110

Beach Transfer System P01100 Overview

BEACH TRANSFER SYSTEM

SYSTEM NUMBER P01100

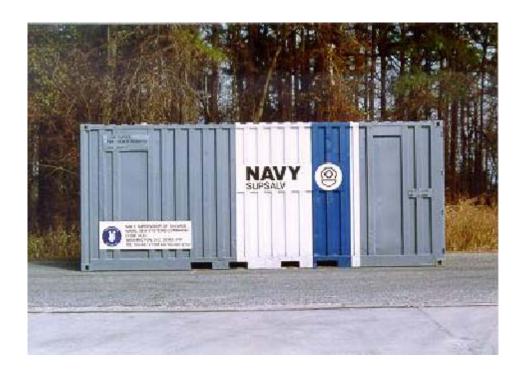
SYSTEM DESCRIPTION

The Beach Transfer System P01100 has four equivalent configurations with each consisting of a storage/shipping container, four polyester roundslings, two beach transfer trailers, a 4-wheel drive tractor with front-end loader, and two one-man, 4-wheel drive all-terrain vehicles. Each of the four configurations has equipment that is functionally the same. The performance characteristics of the individual equipment in the systems may vary slightly from one another. The system is used to provide access to the beach and water areas for shoreside operations, which include beach surveys, cleanup operations, and transportation of equipment and materials.

SYSTEM COMPONENTS

<u>Item</u>	ESSM Number	<u>Qty</u>
1. Van, Beach Transfer System	VA2113A (Altn)*	1
Roundsling, Polyester, 16'	SL0012	4
Tool Box, Beach Transfer System	TL0090	1
Trailer, Beach Transfer	TR2114	2
Tractor, Farm-Type, Model 1160	TT2010	1
Vehicle, ATV, Fourtrax 4 x 4, TRX 300	VE2100	2
2. Van, Beach Transfer System	VA2113B (Altn)*	1
Roundsling, Polyester, 16'	SL0012	4
Tool Box, Beach Transfer System	TL0090	1
Trailer, Beach Transfer	TR2114	2
Tractor, Farm-Type, Model 2110	TT2008	1
Vehicle, ATV, Fourtrax 4 x 4, TRX 350D	VE2105	2
3. Van, Beach Transfer System	VA2113C (Pri)	1
Roundsling, Polyester, 16'	SL0012	4
Tool Box, Beach Transfer System	TL0090	1
Trailer, Beach Transfer	TR2114	2
Tractor, Farm-Type, Model 2120	TT2009	1
Vehicle, ATV, Foreman 400	VE2110	2
4. Van, Beach Transfer System	VA2113D (Altn)*	1
Roundsling, Polyester, 16'	SL0012	4
Tool Box, Beach Transfer System	TL0090	1
Trailer, Beach Transfer	TR2114	2
Tractor, Farm-Type, Model 2120	TT2009	1
Vehicle, ATV, Fourtrax 4 x 4, Foreman 450	VE2115	2

^{*}Alternate ESSM configurations are functionally equivalent and are not shown in the catalog.



Beach Transfer System Van VA2113

VAN, BEACH TRANSFER SYSTEM

ESSM NUMBER VA2113

DESCRIPTION

The Beach Transfer System Van VA2113 stores the components of the Beach Transfer System, which consists of a 4-wheel drive farm-type tractor, two all-terrain vehicles, two 4-wheel utility trailers, four 16' Polyester Roundslings for lifting the van, personnel safety equipment stored in the forward storage cabinets of the van, and the necessary spare parts and ancillary equipment to maintain and operate the Beach Transfer System.

SPECIFICATIONS

Manufacturer ESSM Facility

PHYSICAL CHARACTERISTICS

Operating/Shipping

 Length
 20 ft, 0 in.

 Width
 8 ft, 0 in.

 Height
 8 ft, 0 in.

 Cube
 1280 cu ft

 Weight
 13,690 lb

REFERENCES

None



16' Polyester Roundslings SL0012 (4 per van)

ROUNDSLING, POLYESTER, 16'

ESSM NUMBER SL0012

DESCRIPTION

The 16' Polyester Roundsling SL0012 is an endless synthetic sling made from a skein (continuous loop or hank) of polyester yarn covered by a double-wall tubular jacket. Each sling is supplied with a 1" screw pin-type shackle. Four 16' Polyester Roundslings are used for lifting the van to which they are assigned.

SPECIFICATIONS

Sling		<u>Shackle</u>	
Manufacturer	Lift-All	Manufacturer	Crosby
Model	EN240	Part number	G-209-A
Vertical SWL	21,200 lb	Size	1 in.
Choker SWL	17,000 lb	Working load limit	25,000 lb
Basket SWL	42,400 lb		
Overall length	16 ft, 0 in.		

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length (operating)	16 ft, 0 in.
Cube (coiled for shipping)	4 cu ft
Weight	18 lb

REFERENCES

1. Lift-All 1998 Catalog.



Beach Transfer System Tool Box TL0090



Contents of the Beach Transfer System Tool Box TL0090

TOOL BOX, BEACH TRANSFER SYSTEM

ESSM NUMBER TL0090

DESCRIPTION

The Beach Transfer System Tool Box TL0090 is a basic mechanic's tool set consisting an 18-piece metric wrench set, adjustable wrenches, Phillips and slotted screwdrivers, a 12-volt air compressor, pliers, hammers, and other miscellaneous tools. It contains the necessary tools to set up and perform basic repairs on the Beach Transfer System P01100.

SPECIFICATIONS

Manufacturer ESSM Facility

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length 1 ft, 6 in.
Width 8 in.
Height 9 in.
Cube 1 cu ft
Weight 34 lb

REFERENCES

None



Beach Transfer Trailer TR2114 (Operational Configuration)



Beach Transfer Trailer TR2114 (Shipping Configuration)

TRAILER, BEACH TRANSFER

ESSM NUMBER TR2114

DESCRIPTION

The Beach Transfer Trailer TR2114 is a lightweight, all-terrain utility trailer used for transporting personnel and equipment to and from oil spill sites over soft sand beaches. The trailer is equipped with removable sides that make it very versatile.

SPECIFICATIONS

Manufacturer ESSM Facility

PHYSICAL CHARACTERISTICS

	Operating (sides up)	Shipping (sides down)
Length	8 ft, 7 in.	8 ft, 7 in.
Width	3 ft, 7 in.	3 ft, 7 in.
Height	3 ft, 6 in.	2 ft, 5 in.
Cube	135 cu ft	75 cu ft
Weight	420 lb	420 lb

REFERENCES

1. Beach Transfer Trailer, NAVSEA Dwg. 7022701.



Farm-Type Tractor, Model 2120 TT2009

TRACTOR, FARM-TYPE, MODEL 2120

ESSM NUMBER TT2009

DESCRIPTION

The Farm-Type Tractor, Model 2120 TT2009 with front-end loader is used to transport oil-absorbent materials from soft sand beaches of remote oil spill sites to designated oil disposal areas. The front-end loader can be used to scoop up oil-soaked sand and debris into trucks or trailers for transportation to the disposal site.

SPECIFICATIONS

Manufacturer	Ford
Model	2120
Cylinders	4

Displacement 179 cu in.
Idle speed 700 - 800 rpm
Max. no-load rpm 2650 - 2700
Rated engine speed 2500 rpm

Gross horsepower 42

Transmission 12 x 4 Synchro

Starter Electric
Battery 12 V dc
Fuel Diesel
Fuel capacity 11 gal.

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length	12 ft, 10 in
Width	6 ft, 3 in.
Height	7 ft, 1 in.
Cube	568 cu ft
Weight	4620 lb

REFERENCES

- 1. Ford Operator's Manual for Model 2120 Tractor, 42202010.
- 2. Ford Parts Manual for Model 2120 Tractor, 86615740.
- 3. Ford Service Manual for Model 2120 Tractor, 40192020.
- 4. Ford Operator's Manual for Great Bend Series GR260 Bucket.



All-Terrain Vehicle (ATV) VE2110

VEHICLE, ATV, FOREMAN 400

ESSM NUMBER VE2110

DESCRIPTION

The Beach Transfer All-Terrain Vehicle (ATV) VE2110 is a 4-wheel drive (4WD) vehicle used at remote oil spill sites on soft sand beaches. There are two vehicles per beach transfer system. The ATV can be connected to a utility trailer for the transportation of equipment, materials, and personnel to beach cleanup sites.

SPECIFICATIONS

Manufacturer Honda

Model Fourtrax Foreman 400 4 x 4
Type Gasoline, air-cooled, 4-stroke

Cylinders 1

Bore 3.39 in. x 2.68 in. Max. horsepower 24.5 hp/6000 rpm Displacement 24.09 cu in.

Oil capacity 2.9 qts Compression ratio 8.2 : 1

Transmission 5-speed constant mesh w/reverse

Starter Electric Battery 12 V dc

PHYSICAL CHARACTERISTICS

Operating/Shipping

 Length
 6 ft, 5 in.

 Width
 3 ft, 10 in.

 Height
 3 ft, 7 in.

 Cube
 88 cu ft

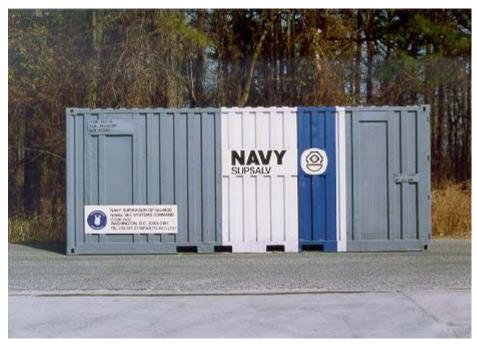
 Weight
 568 lb

REFERENCES

1. Honda Service Manual for the Fourtrax Foreman 400 (ATV).

Downloaded from http://www.everyspec.com

CLEANING SYSTEM VAN P19200



Cleaning System Van P19200



Cleaning System Van P19200 (Interior)

CLEANING SYSTEM VAN

SYSTEM NUMBER P19200

SYSTEM DESCRIPTION

The Cleaning System Van P19200 contains the necessary components to clean the response equipment at an oil spill site. The cleaning system van contains a cleaning pool, a steam cleaner or saltwater pressure washer, a storage/shipping container, and the ancillary equipment to support the system while operating in the field. Oil spill response equipment requires extensive cleaning prior to demobilization and return to the warehouses. Without proper cleaning equipment, this task is difficult, time consuming, and costly. The cleaning system van provides the full array of cleanup tools and materials necessary for efficient cleaning and demobilization of equipment. A major spill response operation may require several cleaning vans to expedite the time-consuming and costly cleaning process.

SYSTEM COMPONENTS

<u>Item</u>	ESSM Number	<u>Qty</u>
1. Van, Cleaning		1
a. Van	VA2119A	_
Cleaner, Steam	CS0507	1
Kit, Hose Cleaning	KT0940 (not shown)	1
Containment Pool, Machinery, 5' x 5' x 12"	CP3000	1
Containment Pool, 14' x 14' x 18"	CP3025	1
Pallet, Hose Cleaning Manifold, 43" x 42" x 22"	HC0001	1
Pallet, Hose Cleaning Pig Launcher, 32" x 32" x 26"	HC0002	1
Pig Catcher	HC0004	1
Pool, Cleaning, 20' x 60'	PC0814	1
Pool, Cleaning, 10' X 10' X 12"	PC0815	2
Pump, Diaphragm, 3", Diesel	PU2108	1
Roundsling, Polyester, 16'	SL0012	1
b. Van	VA2119B	
Kit, Hose Cleaning	KT0940 (not shown)	1
Containment Pool, Machinery, 5' x 5' x 12"	CP3000	1
Containment Pool, 14' x 14' x 18"	CP3025	1
Pallet, Hose Cleaning Manifold, 43" x 42" x 22"	HC0001	1
Pallet, Hose Cleaning Pig Launcher, 32" x 32" x 26"	HC0002	1
Pig Catcher	HC0004	1

CLEANING SYSTEM VAN (CONTD)

SYSTEM NUMBER P19200

SYSTEM COMPONENTS

<u>Item</u>		ESSM Number	<u>Qty</u>
	Pool, Cleaning, 20' x 60'	PC0814	1
	Pool, Cleaning, 10' x 10' x 12"	PC0815	1
	Pool, Cleaning, 30' x 70' (Optional)	PC0830	1
	Pool, Cleaning, 30' x 70'	PC0831	1
	Roundsling, Polyester, 16'	SL0012	1
	Pump, Diaphragm, 3", Diesel	PU2108	1
	Tank, Fast Erect, 2500-Gal, 12' x 12' x 28"	TK0020	1
	Washer, Pressure, Salt Water, Diesel	WA0820	1

Downloaded from http://www.everyspec.com



Cleaning Van VA2119A/B

VAN, CLEANING

ESSM NUMBER VA2119A/B

DESCRIPTION

The Cleaning Van VA2119A/B is a modified 8' x 8' x 20' shipping container used to store and ship the oil spill response equipment cleaning system. The main components of the cleaning system are a high-pressure steam cleaner or salt water pressure washer, cleaning solvents, sorbents, brushes, hand tools, and cleaning pools.

There are two configurations of the Cleaning Van; the two configurations are functionally the same. The characteristics and inventories of each may vary slightly from one another.

SPECIFICATIONS

Van VA2219A	Van VA2219B
-------------	-------------

Serial numbers	Serial numbers
264601	008680
000001	105707

800001 105707 800003 106716 106716

PHYSICAL CHARACTERISTICS

Operating/Shipping

	<u>VA2219A</u>	<u>VA2119B</u>
Length	20 ft, 0 in.	20 ft, 0 in.
Width	8 ft, 0 in.	8 ft, 0 in.
Height	8 ft, 0 in.	8 ft, 0 in.
Cube	1280 cu ft	1280 cu ft
Weight	11,176 lb	13,175 lb

REFERENCES



5' x 5' x 12" Machinery Containment Pool CP3000

CONTAINMENT POOL, MACHINERY, 5' x 5' x 12"

ESSM NUMBER CP3000

DESCRIPTION

The Machinery Containment Pool CP3000 is a 5' x 5' x 12" urethane berm. It is used to catch and contain any oil, fuel, or contaminants leaking or spilled from the component that it is supporting.

SPECIFICATIONS

Manufacturer Basic Concepts
Fabric material Cooley Urethane

PHYSICAL CHARACTERISTICS

	<u>Operating</u>	Shipping
Length	5 ft, 0 in.	1 ft, 8 in.
Width	5 ft, 0 in.	1 ft, 8 in.
Height	1 ft, 0 in.	6 in.
Cube	25 cu ft	1.5 cu ft
Weight	34 lb	34 lb

REFERENCES



Containment Pool CP3025

CONTAINMENT POOL, 14' x 14' x 18"

ESSM NUMBER CP3025

DESCRIPTION

The Containment Pool CP3025 is a 14' x 14' x 18" urethane berm. It is used to catch and contain any oil, fuel, or contaminants leaked, spilled or cleaned from the component that it is supporting.

SPECIFICATIONS

Manufacturer Basic Concepts
Fabric material Cooley Urethane

PHYSICAL CHARACTERISTICS

	<u>Operating</u>	Shipping
Length	14 ft, 0 in.	2 ft, 6 in.
Width	14 ft, 0 in.	2 ft, 6 in.
Height	1 ft, 6 in.	1 ft, 0 in.
Cube	294 cu ft	6 cu ft
Weight	214 lb	214 lb

REFERENCES



Steam Cleaner CS0507

CLEANER, STEAM

ESSM NUMBER CS0507

DESCRIPTION

The Steam Cleaner CS0507 is a high pressure, hot water unit used to clean off oil, salt spray, and dirt by spraying a chemical cleaner on the equipment. The main components of the steam cleaner are a high pressure pump, diesel engine, oil fluid burner, heating coils, and a 60-cycle, 115-volt generator.

SPECIFICATIONS

Manufacturer	Landa
--------------	-------

Model SDHW5-3000

<u>Pump</u>	<u>Diesel Engine</u>
-------------	----------------------

Manufacturer	General Pump	Manufacturer	Kubota
Model	TS2021	Cooled	Water
Type	Tri-plunger oil bath	Cycle	4
Discharge capacity	4.4 gpm	Cylinders	1
Operating pressure	3000 psig	Starter	Electric
Operating temperature	200° F	Horsepower	13.5
BTU/hour	380,000	Rpm	2200
Dumon	Oil fined outs light	-	

Burner Oil-fired auto light Fuel type Kerosene/diesel

Burner Motor Generator

Horsepower	1/8	Volts	115 V ac
Volts	115 V ac	Hertz	60
Hertz	60	Amps	17.4

Phase 1

Ignition Transformer

Coil 105' of 1/2" schedule 80 pipe High pressure hose 3/8" ID x 50' wire braid

Gun Insulated shutoff Nozzle (4 ea) 0°, 15°, 25°, 40°

Pressure control Variable pressure wand Chemical control Needle meter value

CLEANER, STEAM (CONTD)

ESSM NUMBER CS0507

PHYSICAL CHARACTERISTICS

Operating/Shipping
4 ft, 11 in.

 Length
 4 ft, 11 in.

 Width
 3 ft, 4 in.

 Height
 3 ft, 10 in.

 Cube
 63 cu ft

 Weight
 1236 lb

REFERENCE DATA

- 1. Kubota Instruction Manual.
- 2. Kubota Parts List Manual.
- 3. Landa Operator's Manual SDHW5-3000.

Downloaded from http://www.everyspec.com



Hose Cleaning Manifold Pallet HC0001 with 4" Cleaning Adapter



Hose Cleaning Manifold Pallet HC0001 with 6" Cleaning Adapter

HOSE CLEANING MANIFOLD PALLET 43" X 42" X 22"

ESSM NUMBER HC0001

DESCRIPTION

The Hose Cleaning Manifold Pallet HC0001 is connected in-line with oil contaminated hoses, a cleaning tank (TK0020) filled with approved cleaning solvent, and a pump (used to circulate cleaning fluid). The manifold comes with a 4-inch and a 6-inch adapter manifold for the cleaning of either 4- or 6-inch hoses. Either of these adapter manifolds can be fitted with other adapters of different sizes to clean other hoses of different sizes. Once connected, the circulation pump is started and circulates the cleaning fluids through the hose until the hoses are clean. Diesel fuel is circulated through the hose first to break down the crude oil. After the hoses are flushed with diesel fuel they are then flushed with an approved cleaning solvent such as Citrikleen until the desired state of cleanliness is achieved.

SPECIFICATIONS

Manufacturer ESSM Facility

PHYSICAL CHARACTERISTICS

_	. •	/01	•	•
1 N	naratin	$\alpha / \sum k$	111	nina
\	peratin	ונא/צו	1117	צוונו

Length	3 ft, 7 in.
Width	3 ft, 6 in.
Height	1 ft, 10 in
Cube	23 cu ft
Weight	260 lb

REFERENCES





Hose Cleaning Pig Launcher Pallet HC0002

HOSE CLEANING PIG LAUNCHER PALLET 32" X 32" X BY 26"

ESSM NUMBER HC0002

DESCRIPTION

The Hose Cleaning Pig Launcher Pallet HC0002 contains a 4-inch and a 6-inch manifold assembly that, when connected to the proper sized hose, launches either a 4- or 6-inch cleaning pig. The pig launcher can be used to clear the hose of crude oil after a transfer or to clear the hose after cleaning.

SPECIFICATIONS

Manufacturer ESSM Facility

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length	2 ft, 8 in.
Width	2 ft, 8 in.
Height	2 ft, 2 in.
Cube	15 cu ft
Weight	190 lb

REFERENCES



Pig Catcher HC0004

PIG CATCHER

ESSM NUMBER HC0004

DESCRIPTION

The Hose Cleaning Pig Catcher HC0004 contains a 4-inch and 6-inch manifold assembly that when connected to the proper sized hose catches either a 4- or 6-inch cleaning pig. The pig catcher can be used to clear the hose of crude oil after a transfer or to clear the hose after cleaning.

SPECIFICATIONS

Manufacturer ESSM Facility

PHYSICAL CHARACTERISTICS

	Operating/Shipping
Length	3 ft, 0 in.
Width	3 ft, 0 in.
Height	3 ft, 5 in.
Cube	31 cu ft
Weight	204 lb

REFERENCES



Cleaning Pool PC0814

POOL, CLEANING, 20' X 60'

ESSM NUMBER PC0814

DESCRIPTION

The Cleaning Pool PC0814 is a Goodyear rubber berm in which pollution equipment can be cleaned after use on oil spills. The pool is large enough to hold two skimmers for cleaning. The pool contains the oil and chemicals from the equipment until it can be pumped out and transported to a disposal site.

SPECIFICATIONS

Manufacturer Engineered Fabrics, Rockmart, GA

Material Goodyear rubber Sides Inflatable pockets

PHYSICAL CHARACTERISTICS

	<u>Operating</u>	Shipping
Length	60 ft, 0 in.	10 ft, 3 in.
Width	20 ft, 0 in.	5 ft, 1 in.
Height	18 in.	3 ft, 7 in.
Cube	1800 cu ft	187 cu ft
Weight	1200 lb	1200 lb

REFERENCES



Cleaning Pool PC0815

CLEANING POOL, 10' x 10' x 12"

ESSM NUMBER PC0815

DESCRIPTION

The Cleaning Pool PC0815 is a 10' x 10' x 12" urethane berm. Its is used to catch and contain any oil, fuel, or contaminants leaked, spilled or cleaned from the component that it is supporting.

SPECIFICATIONS

Manufacturer Basic Concepts
Fabric material Cooley Urethane

PHYSICAL CHARACTERISTICS

	<u>Operating</u>	Shipping
Length	10 ft, 0 in.	2 ft, 4 in.
Width	10 ft, 0 in.	1 ft, 9 in.
Height	1 ft, 0 in.	1 ft, 3 in.
Cube	100 cu ft	5 cu ft
Weight	68 lb	68 lb

REFERENCES



Cleaning Pool PC0830

POOL, CLEANING, 30' X 70'

ESSM NUMBER PC0830

DESCRIPTION

The Cleaning Pool PC0830 is a rubber container in which pollution equipment can be cleaned after use on oil spills. The pool is large enough to hold two skimmers for cleaning. The pool contains the oil and chemicals from the equipment until it can be pumped out and transported to a disposal site.

SPECIFICATIONS

Manufacturer GPC Fabricated Material Goodyear rubber

Sides Inflatable boom pockets

PHYSICAL CHARACTERISTICS

	<u>Operating</u>	Shipping
Length	70 ft, 0 in.	6 ft, 6 in.
Width	30 ft, 0 in.	4 ft, 6 in.
Height	18 in.	4 ft, 6 in.
Cube	3150 cu ft	191 cu ft
Weight	1200 lb	1200 lb

REFERENCES



Cleaning Pool PC0831

POOL, CLEANING, 30' X 70'

ESSM NUMBER PC0831

DESCRIPTION

The Cleaning Pool PC0831 is a rubber container in which pollution equipment can be cleaned after use on oil spills. The pool is large enough to hold two skimmers for cleaning. The pool contains the oil and chemicals from the equipment until it can be pumped out and transported to a disposal site.

SPECIFICATIONS

Manufacturer Basic Concepts
Material Cooley Urethane

PHYSICAL CHARACTERISTICS

	<u>Operating</u>	Shipping
Length	70 ft, 0 in.	5 ft, 6 in.
Width	30 ft, 0 in.	4 ft, 8 in.
Height	18 in.	3 ft, 4 in.
Cube	3150 cu ft	76 cu ft
Weight	1900 lb	1900 lb

REFERENCES



3" Diaphragm Pump PU2108

PUMP, DIAPHRAGM, 3", DIESEL

ESSM NUMBER PU2108

DESCRIPTION

The 3" Pump PU2108 is a self-priming, diesel driven, diaphragm pump that is designed to pump water and transfer viscous materials. It will pump water at a maximum rate of 100 gpm with a maximum discharge pressure of 10 psig. Maximum practical suction lift is 26 feet above the water surface. The pump is skid-mounted with two carrying handles that double as a protective roll cage.

The pump is powered by a 1-cylinder, 4.2-hp, air-cooled, 4-cycle, diesel engine. The engine has a recoil starter and direct fuel injection with a variable speed control and is designed to operate off its own integral fuel system.

SPECIFICATIONS

	Engine	
CH&E Mfg Co.	Manufacturer	Yanmar Diesel
5500	Model	L40AE
Diaphragm	Cylinders	1
100 gpm @ 10 psig	Bore/stroke	68 mm/55 mm
	Displacement	199 cm ³
	Compression ratio	20:1
	Rpm	3600
	Horsepower	4.2
	Fuel	Diesel
	Fuel source	Int. fuel tank
	Fuel consumption	0.5 gph
	5500 Diaphragm	CH&E Mfg Co. 5500 Manufacturer Model Cylinders 100 gpm @ 10 psig Bore/stroke Displacement Compression ratio Rpm Horsepower Fuel Fuel source

PHYSICAL CHARACTERISTICS

	Operating/Shipping
Length	3 ft, 5 in.
Width	2 ft, 6 in.
Height	2 ft, 2 in.
Cube	19 cu ft
Weight	158 lb

DIAPHRAGM, 3", DIESEL (CONTD)

ESSM NUMBER PU2108

REFERENCES

- 1. Yanmar Service Manual for Model L-A Series Engine.
- 2. Yanmar Operations Manual, Model L-A Series Engine.
- 3. Yanmar Diesel Engine Parts Catalog, Pub. No. 00Y00R3981.

Downloaded from http://www.everyspec.com



16' Polyester Roundslings SL0012 (4 per van)

ROUNDSLING, POLYESTER, 16'

ESSM NUMBER SL0012

DESCRIPTION

The 16' Polyester Roundsling SL0012 is an endless synthetic sling made from a skein (continuous loop or hank) of polyester yarn covered by a double-wall tubular jacket. Each sling is fitted with a screw pin shackle. Four 16' Polyester Roundslings are used for lifting the van to which they are assigned.

SPECIFICATIONS

Sling		<u>Shackle</u>	
Manufacturer	Lift-All	Manufacturer	Crosby
Model	EN240	Part number	G-209-A
Vertical SWL	21,200 lb	Size	1 in.
Choker SWL	17,000 lb	Working load limit	25,000 lb
Basket SWL	42,400 lb		
Overall length	16 ft, 0 in.		

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length (operating)	16 ft, 0 in.
Cube (coiled for shipping)	4 cu ft
Weight	18 lb

REFERENCES

1. Lift-All 1998 Catalog.



2500-Gallon Fast Erect Tank TK0020

TANK, FAST ERECT, 2500-GALLON, 12' X 12' X 28"

ESSM NUMBER TK0020

DESCRIPTION

The 2500-Gallon Fast Erect Tank TK0020 is designed for the primary containment of fuel. The tank is used for holding cleaning agent during the hose cleaning process. The unit consists of an aluminum frame and a 12' x 12' x 28" tank made of a nylon base fabric coated with urethane.

SPECIFICATIONS

Manufacturer Cooley Incorporated

Style L3284NESU Construction Style 84

Base fabric:

Weight 13 oz. per square yard (psy)

Fiber Nylon Fabric count Fill

Coated fabric:

Total weight 32 oz psy Type of coating Urethane

Coating distribution Face, 50; Back, 50

Color Tan

Tensile strength 1000 lb grab

600 1-inch strip pounds

Tear strength weight 40 lb Puncture resistance 175 psig Hydrostatic pressure 600 psig

Temperature:

Low -50°F High continuous 160°F Intermittent 180°F

Drain 4-in. female pipe flange

TANK, FAST ERECT, 2500-GALLON, 12' X 12' X 28" (CONTD)

ESSM NUMBER TK0020

PHYSICAL CHARACTERISTICS

	<u>Operating</u>
Length	12 ft, 0 in.
Width	12 ft, 0 in.
Height	2 ft, 4 in.
Cube	336 cu ft
Weight	125 lb

REFERENCES

Downloaded from http://www.everyspec.com



Salt Water Pressure Washer WA0820

WASHER, PRESSURE, SALT WATER, DIESEL

ESSM NUMBER WA0820

KEW Industries

2610 psig

KEW Contractor Diesel

DESCRIPTION

The Diesel-Driven, Salt Water Pressure Washer WA0820 is a high pressure, hot water unit used to remove oil and dirt by spraying water and cleaner on the equipment at a high pressure and temperature. The pressure washer can use either fresh or salt water as a cleaning medium. The main components of the pressure washer are a high pressure pump, diesel engine, oil fired-burner, and heating coils.

SPECIFICATIONS

Battery Fuel

Fuel source: Engine

Burner

Engine

Fuel consumption:

Burner @140°F

Engine	Pressure Washer

Manufacturer	Ruggerini	Manufacturer
Cooling	Air	Model
Cylinders	2	Max. pump pressure
Bore/stroke	80mm/65mm	Water volume
Displacement	654 cm ³	@min./max. pressure
Horsepower	13	Max. inlet water temp
Operating rpm	3600	Temperature range
Compression ratio	19:1	Self priming max. lift
Starting	Electric	

12 V/60Ah/300 A

4-gal. int. tank 5-gal. jerry can

Diesel

.79 gph

1.98 gph

@min./max. pressure
Max. inlet water temp
Γemperature range
Self priming max. lift
5.42/20.5 gal.
95°F/35°C
86-302°F/30-150°C
16.5 ft

PHYSICAL CHARACTERISTICS

	<u>Operating</u>
Length	2 ft, 11 in.
Width	3 ft, 10 in.
Height	4 ft, 0 in.
Cube	45 cu ft
Weight	435 lb

WASHER, PRESSURE, SALT WATER, DIESEL (CONTD)

ESSM NUMBER WA0820

REFERENCES

- 1. Owner's Manual for KEW Contractor Diesel.
- 2. User and Maintenance Manual for Ruggerini MD/1 MD/2 Engine.

SUPPLY VAN SYSTEM P19800



Supply Van System P19800

SUPPLY VAN

SYSTEM NUMBER P19800

SYSTEM DESCRIPTION

The Supply Van System P19800 provides spill response operations with required spare parts for the equipment at a spill site. All equipment comes with onboard spares such as filters, belts, and other easily replaced, frequently required parts. A second level supply of spares for smaller spill response jobs (up to 4 skimmers) is provided by a shop van. The Supply Van, however, provides the "depot level" of support required for larger jobs (8 or more skimmers). The Supply Van contains more specialized parts, such as spare engines, pumps, rebuild kits, belt modules, specialized tools, and one-of-a-kind spares necessary to maintain the wide variety of individual items that must be maintained at a major spill site in the field.

SYSTEM COMPONENTS

<u>Item</u>	ESSM Number	<u>Qty</u>
1. Van, Supply, 8' x 8' x 20'	VA0740	1
Dehumidifier, Model SSP-6A	DE0010 (not shown)	1
Engine, Diesel, GM 4-53 (Class V Skimmer Spare)	EN0015	1
Roundsling, Polyester, 16'	SL0012	4



Supply Van VA0740



Supply Van VA0740 Interior

VAN, SUPPLY, 8' X 8' X 20'

ESSM NUMBER VA0740

DESCRIPTION

The Supply Van System P19800 provides spill response operations with required spare parts for the equipment at a spill site. All equipment comes with onboard spares such as filters, belts, and other easily replaced, frequently required parts. A second level supply of spares for smaller spill response jobs (up to 4 skimmers) is provided by a shop van. The Supply Van, however, provides the "depot level" of support required for larger jobs (8 or more skimmers). The Supply Van contains more specialized parts, such as spare engines, pumps, rebuild kits, belt modules, specialized tools, and one-of-a-kind spares necessary to maintain the wide variety of individual items that must be maintained at a major spill site in the field.

SPECIFICATIONS

None

PHYSICAL CHARACTERISTICS

	<u>Shipping</u>
Length	20 ft, 0 in.
Width	8 ft, 0 in.
Height	8 ft, 0 in.
Cube	1280 cu ft
Weight	16,040 lb

REFERENCES

None



GM 4-53 Diesel Engine EN0015

ENGINE, GM 4-53, (CLASS V SKIMMER SPARE)

ESSM NUMBER EN0015

DESCRIPTION

The GM 4-53 Diesel Engine EN0015 is a Class V Skimmer spare engine. The spare engine is for use as a direct replacement for a Class V Skimmer engine in the event of a major engine failure.

SPECIFICATIONS

Engine

Manufacturer Detroit Diesel Model 5043-7201

Cylinders 4

Bore/stroke 3.875 in./4.5 in.

Displacement 212 cu in.

Compression ratio 21 : 1

Rpm (idle) 650

Rpm (max.) 2400

Horsepower 128 shp @ 2800 rpm

Starting Electric

Battery 12 V dc (2 in parallel)

Fuel Diesel Fuel consumption 6 gph

PHYSICAL CHARACTERISTICS

 Length
 4 ft, 0 in.

 Width
 2 ft, 5 in.

 Height
 3 ft, 0 in.

 Cube
 29 cu ft

 Weight
 1665 lb

REFERENCES

1. Detroit Diesel-Allison Series 53 Operator's Manual.



16' Polyester Roundslings SL0012

ROUNDSLING, POLYESTER, 16'

ESSM NUMBER SL0012

DESCRIPTION

The 16' Polyester Roundsling SL0012 is an endless synthetic sling made from a skein (continuous loop or hank) of polyester yarn covered by a double wall tubular jacket. Four 16' Polyester Roundslings are used for lifting the van to which they are assigned.

SPECIFICATIONS

Sling		<u>Shackle</u>	
Manufacturer	Lift-All	Manufacturer	Crosby
Model	EN240	Part number	G-209-A
Vertical SWL	21,200 lb	Size	1 in.
Choker SWL	17,000 lb	Working load limit	25,000 lb
Basket SWL	42,400 lb	_	
Overall length	16 ft, 0 in.		

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length (operating)	16 ft, 0 in.
Cube (coiled for shipping)	4 cu ft
Weight	18 lb

REFERENCES

1. Lift-All 1998 Catalog.

Downloaded from http://www.everyspec.com

PERSONNEL TRANSFER BOATS P19900





24' Rigid Hull Inflatable Boat WB0736

22.5' Rigid Hull Inflatable Boat WB0740



22' Command Boat WB0941

Personnel Transfer Boats

PERSONNEL TRANSFER BOATS

SYSTEM NUMBER P19900

SYSTEM DESCRIPTION

The Personnel Transfer System P19900 consists of a choice of either a 24' Rigid Hull Inflatable Boat, a 22.5' Rigid Hull Inflatable, or a 22' Command Boat. The rigid hull inflatables offer the safety of an inflatable with the speed and ride characteristics of a V-hull boat. During large spill operations, skimmers and maintenance vessels can be scattered over very large distances. Supplying crews with meals, parts, water and other necessary items, tending to emergencies, and changing out relief crews become very demanding problems on large jobs. These boats augment the inflatable boom tending boats, which are smaller, slower, and already busy with their boom tending and heavy load missions and are not generally available.

The 24' Rigid Hull Inflatable Boat WB0736 is equipped with a VHF marine mobile radio, a marine mobile CB radio, a radar, a GPS system, a tool box, a first aid kit, a flare kit, mooring lines, tow line, anchor line, anchor, life preservers, and all necessary ancillary equipment to operate and maintain the boat. The system also provides a boat cradle for storage and shipping of the 24' Rigid Hull Inflatable Boat.

The 22.5' Rigid Hull Inflatable Boat WB0740 is equipped with a VHF marine mobile radio, a marine mobile CB radio, a radar, a GPS system, a tool box, a first aid kit, a flare kit, mooring lines, tow line, anchor line, anchor, life preservers, and all necessary ancillary equipment to operate and maintain the boat. The system also provides a boat cradle for storage and shipping of the 22.5' Rigid Hull Inflatable Boat. There is an optional trailer for the 22.5' Rigid Hull Inflatable Boat which is presently located at the ESSM facility in Hawaii.

The 22' Command Boat WB0941 is equipped with a VHF marine mobile radio, a tool box, a first aid kit, a flare kit, mooring lines, tow line, anchor line, anchor, life preservers, and all necessary ancillary equipment to operate and maintain the boat. The system also provides a boat trailer for the storage and shipping of the 22' Command Boat.

SYSTEM COMPONENTS

<u>Item</u>	ESSM Number	<u>Qty</u>
1. Boat		1
a. 24' Rigid Hull Inflatable (Altn):	WB0736	
Cradle, 24' Rigid Hull Inflatable Boat	BC0736	1
GPS, Furuno GP-30	GP0130	1
Radio, CB, Marine Mobile	RA1709	1
Radio, VHF, Marine Mobile, Voyager (76-Channel)	RA1830	1
Radar, LCD MK II	RD0010	1
Tool Box, 24' Rigid Hull Inflatable Boat	TL0065	1

PERSONNEL TRANSFER BOATS

SYSTEM NUMBER P19900

SYSTEM COMPONENTS (Cont'd)

b. 22.5' Rigid Hull Inflatable w/Engine (Altn):	WB0740	
Cradle, 22.5' Rigid Hull Inflatable Boat:	BC0740	1
Roundsling Bridle, Polyester, 4-Leg (2- 20', 2-20' 3")	SL0386	1
Radio, VHF, Marine Mobile, Icom (58-Channel)	RA1831	1
Roundsling Bridle, Polyester, 4-Leg (2-7' 8", 2-8' 4")	SL0384	1
Tool Box, 22.5' Rigid Hull Inflatable Boat	TL0075	1
Trailer, 22.5' Rigid Hull Inflatable Boat (Optl)	TR0955 (not shown)	1
c. 22' Command Boat (Altn):	WB0941	
Radio VHF, Marine Mobile, Icom (58-Channel)	RA1831	1
Tool Box, 22' Command Boat	TL0070	1
Trailer, 22' Command Boat	TR0951	1

Downloaded from http://www.everyspec.com



24' Rigid Hull Inflatable Boat WB0736

BOAT, 24' RIGID HULL INFLATABLE

ESSM NUMBER WB0736

DESCRIPTION

The 24' Rigid Hull Inflatable Boat WB0736 consists of an inflatable collar attached to a rigid hull by means of reusable fasteners. The boat is powered by a 200-hp turbocharged Volvo AQAD 41 diesel engine. The engine is attached to a Volvo-290 outdrive by a Cardan drive shaft. A combined engine cover and control console is located in the center of the boat. Equipment stowage is provided for in an aft stowage locker/seat and forward in a below deck locker accessed through a deck hatch. A solid lifting frame, located in the front console, allows the vessel to be launched and recovered by a Miranda-type davit. A four-point lifting sling is furnished to launch and recover the boat from a single arm davit. The 24' Rigid Hull Inflatable Boat is used to supply crews with meals, parts, water and other necessary items, to tend to emergencies, and to change out relief crews.

SPECIFICATIONS

Boat

			
Manufacturer	Zodiac	Manufacturer	Volvo Penta
Model	22.5 (RIB-S)	Model	AD41B
Capacity		Cylinders	6
People	9	Bore	3.62264 in.
Net weight	4375 lb	Stroke	3.54331 in.
Gross weight (SOLAS)	6300 lb	Compression ratio	17.7:1
Fuel	40 gallons	Oil pressure (hot)	61-73 psig
Tube diameter	22 in.	Cooling system	
Number of chambers	7	Type	Positive press.
		Capacity	3.7 gal.
		Fill cap pressure	10.8 psig
		Starter motor	12 V dc

Engine

Outdrive

Manufacturer	Volvo Penta
Model	DP-P
Max prop diameter	16 in.
Gear ratio	2.30:1
Weight	128 lb
Oil capacity	2.8 gal.
Oil viscosity	SAE 90 or 80W90

BOAT, 24' RIGID HULL INFLATABLE (CONTD)

ESSM NUMBER WB0736

PHYSICAL CHARACTERISTICS

	<u>Operating</u>	Shipping
Length	25 ft, 0 in.	25 ft, 0 in.
Width	10 ft, 0 in.	10 ft, 0 in.
Height	14 ft 6 in.	11 ft, 0 in.
Cube	3625 cu ft	2750 cu ft
Weight	4980 lb	6780 lb

REFERENCES

- 1. Volvo Technical Manual for 24-Foot Rigid Inflatable Boat (RIB-S).
- 2. Volvo Engine Workshop Manual Publication Number 7735288-8.
- 3. Volvo Outdrive Workshop Manual Publication Number 7731624-8.

Downloaded from http://www.everyspec.com



24' Rigid Hull Inflatable Boat Cradle BC0736 with 24' Rigid Hull Inflatable Boat WB0736

CRADLE, 24' RIGID HULL INFLATABLE BOAT

ESSM NUMBER BC0736

DESCRIPTION

The 24' Rigid Hull Inflatable Boat Cradle BC0736 is constructed from aluminum I-beam and channel. It is made to fit the contour of the hull of the 24' Rigid Hull Inflatable Boat. To prevent damage to the bottom of the boat, the cradle supports are fitted with pressure-treated pine timbers covered with indoor-outdoor carpet and are bolted to the three sets of cradle supports. To support the keel of the boat there is a pressure-treated timber running the length of the cradle.

The 24' Rigid Hull Inflatable Boat Cradle BC0736 is used as a storage and shipping cradle for transportation on military air cargo planes or on over-the-road flatbed trailers.

SPECIFICATIONS

Manufacturer ESSM Facility

PHYSICAL CHARACTERISTICS

oat)

REFERENCES

1. 24' Rigid Hull Inflatable Boat Cradle, NAVSEA Dwg. 5104727.



Furuno GP-30/32/37 GPS GP0130

GPS, FURUNO, GP-30

ESSM NUMBER GP0130

DESCRIPTION

The GP-30/32/37 Furuno GPS (GP0130) is a totally integrated GPS receiver and video plotter, and consists of a display unit and an antenna unit. The high sensitivity receiver tracks up to 8 satellites simultaneously. An 8-state Kalman filter ensures optimum accuracy in determining vessel position, course, and speed. In most cases the operator only needs to turn on the power to find the vessel's position.

SPECIFICATIONS

Manufacturer	Furuno
Models	GP-30, GP-32, GP-37
Receiving frequency	1575.42 MHz
Power supply:	
GP-30	10.2 to 31.2 V dc
GP-32	10.2 to 31.2 V dc
GP-37	12 to 24 V dc

PHYSICAL CHARACTERISTICS

	<u>Operating</u>
Length	9 in.
Width	4 in.
Height	5 in.
Cube	1 cu ft
Weight	2 lb

REFERENCE

- 1. Furuno Operator's Manual for Model GP-30.
- 2. Furuno Operator's Manual for Model GP-32/GP-37.



CB Marine Mobile Radio RA1709

RADIO, CB, MARINE MOBILE

ESSM NUMBER RA1709

DESCRIPTION

The Marine Mobile Citizens Band (CB) Radio RA1709 is designed for marine use. Features include the ability to receive four of the National Oceanic and Atmospheric Administration (NOAA) weather channels. The CB 40 + 4 radio has 44 channels; 40 CB and 4 weather channels. The 40 CB channels can be used for transmitting and receiving; whereas, the 4 weather channels are for receiving only.

SPECIFICATIONS

Manufacturer Commercial

Frequency range:

Citizens band 26.965 to 27.405 MHz
Weather band (receive only) 161.665 to 162.550 MHz

Channels total: 44
Citizens band 40
Weather band 4

Input voltage 13.8 V dc $\pm 20\%$ Temperature range -20°C to +50°C

Transmitter (citizens band only):

RF output 4 W maximum

Receiver (CB):

Audio output at 10% distortion 5 W

Audio response 300 Hz to 3 kHz, 3 dB

Channel spacing 10 kHz Hum and noise at 100 kV 45 dB

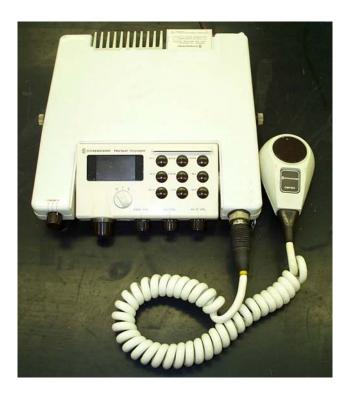
PHYSICAL CHARACTERISTICS

Operating/Shipping

Length	9 in.
Width	6 in.
Height	2 in.
Weight	3 lb
Cube	1 cu ft

REFERENCES

1. Owner's Manual, CB 40 + 4 H-Watt Citizens Band Marine Transceiver.



VHF Marine Mobile Radio, Voyager (76-Channel) RA1830

RADIO, VHF, MARINE MOBILE, VOYAGER (76-CHANNEL)

ESSM NUMBER RA1830

DESCRIPTION

The Horizon Voyager GX2200S Marine Mobile Radio RA1830 is a marine VHF/FM transceiver with public address system and intercom features in a single moisture-resistant console. The Horizon Voyager requires 13.8 V dc for operation, can develop a switchable RF output power of 1 watt or 25 watts, and operates in the frequency range of 156.050 to 163.275 MHz.

The Horizon Voyager has a capacity of 76 channels: 55 programmed marine transmit/receive channels, 6 weather channels, and 15 transmit/receive expansion channels. The 55 marine channels are switchable for use with USA, international, or Canadian regulations. Should the FCC increase the number of marine channels, the Voyager may be programmed by qualified dealers for 15 new transmit and receive frequencies. The one-touch Channel 16 access allows immediate selection of emergency Channel 16.

SPECIFICATIONS

Manufacturer Standard

Model Horizon Voyager GX2200S

Channels 76 total: 55 marine

6 weather 15 expansion

Input voltage $13.8 \text{ V dc} \pm 20\%$

Frequency range 156.050 to 163.275 MHz Transmitter RF output 25 W high, 1 W low

PHYSICAL CHARACTERISTICS

Operating/Shipping

8 in.
7 in.
2 in.
1 cu ft
3 lb

REFERENCES

1. Horizon Voyager GX2200S Owner's Manual.



MK II LCD Radar RD0010

RADAR, LCD, MK II

ESSM NUMBER RD0010

DESCRIPTION

The MK II LCD Radar RD0010 is a standard radar (radio detection and ranging) unit used to indicate a target object's range and bearing location. The radar unit determines the distance to a target by calculating the time difference between the transmission of a radar signal and reception of the reflected echo.

The range and bearing of a target is displayed on a visual indicating screen. This display shows the transmitting ship's position at the center. Target image echoes are received and displayed as a sight signal on the visual display screen and show the distance and relative bearing from the transmitting vessel. The motion of the transmitting ship is also displayed along with the target images.

SPECIFICATIONS

Manufacturer Furuno Model 821

Display unit:

Indication system PPI raster scan

Picture tube 8 in. diagonal, LCD, STN semi-transparent, yellow mode Range ring interval (nm) 0.125 0.25 0.5 1 2 4 4 4

Ambient temperature Scanner unit: -20°C to +70°C

Display unit: 0° C to $+55^{\circ}$ C

Humidity Relative humidity 95% or less at +40°C

Power supply & consumption 10.2 to 31.2 V dc, 40 - 47 W

PHYSICAL CHARACTERISTICS

	<u>Operating</u>
Length	12 in.
Width	6 in.
Height	9 in.
Cube	1 cu ft
Weight	5 lb

REFERENCES

1. Operator's Manual, Marine Radar Furuno Model 821.



24' Rigid Hull Inflatable Boat Tool Box TL0065

TOOL BOX, 24' RIGID HULL INFLATABLE BOAT

ESSM NUMBER TL0065

DESCRIPTION

The 24' Rigid Hull Inflatable Boat Tool Box TL0065 is a basic mechanic's tool set that contains 3/8" drive sockets and accessories, combination, open-end, pipe, and adjustable wrenches, pliers, hammers and other miscellaneous tools. It contains the necessary tools to set up and perform basic repairs on the 24' Rigid Hull Inflatable Boat WB0736.

SPECIFICATIONS

Manufacturer ESSM Facility

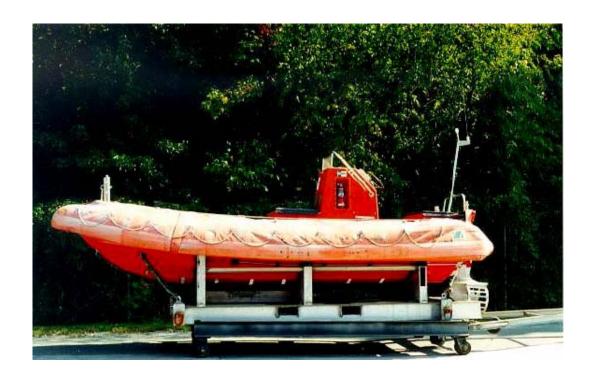
PHYSICAL CHARACTERISTICS

Operating/Shipping

Length 1 ft, 8 in.
Width 9 in.
Height 9 in.
Cube 1 cu ft
Weight 25 lb

REFERENCES

None



22.5' Rigid Hull Inflatable Boat WB0740

BOAT, 22.5' RIGID HULL INFLATABLE W/ENGINE

ESSM NUMBER WB0740

DESCRIPTION

The 22.5' Rigid Hull Inflatable Boat WB0740 consists of an inflatable collar attached to a rigid hull by means of reusable fasteners. The boat is powered by a 200-hp turbocharged Volvo AQAD 41 diesel engine. The engine is attached to a Volvo-290 outdrive by a Cardan drive shaft. A combined engine cover and control console is located in the center of the boat. Equipment stowage is provided for in an aft stowage locker/seat and forward in a below deck locker accessed through a deck hatch. A solid lifting frame, located in the front console, allows the vessel to be launched and recovered by a Miranda-type davit. A four-point lifting sling is furnished to launch and recover the boat from a single arm davit. The 22.5' Rigid Hull Inflatable Boat is used to supply crews with meals, parts, water and other necessary items, to tend to emergencies, and to change out relief crews.

SPECIFICATIONS

Boat

		<u></u>	
Manufacturer	Zodiac	Manufacturer	Volvo Penta
Model	22.5 (RIB-S)	Model	AQAD41B
Capacity		Cylinders	6
People	9	Bore	3.62264 in.
Net weight	4375 lb	Stroke	3.54331 in.
Gross weight (SOLAS)	6300 lb	Compression ratio	17.7:1
Fuel	40 gallons	Oil pressure (hot)	61-73 psig
Tube diameter	22 in.	Cooling system	
Number of chambers	7	Type	Positive pressure
		Capacity	3.7 gal
		Fill cap pressure	10.8 psig
		Starter motor	12 V dc

Engine

Outdrive

Manufacturer	Volvo Penta
Model	SP-A
Max prop dia	16 in.
Gear ratio	2.30:1
Weight	128 lb
Oil capacity	2.8 gal.
Viscosity	SAF 90 or 80W90

Viscosity SAE 90 or 80W90

BOAT, 22.5' RIGID HULL INFLATABLE W/ENGINE (CONTD)

ESSM NUMBER WB0740

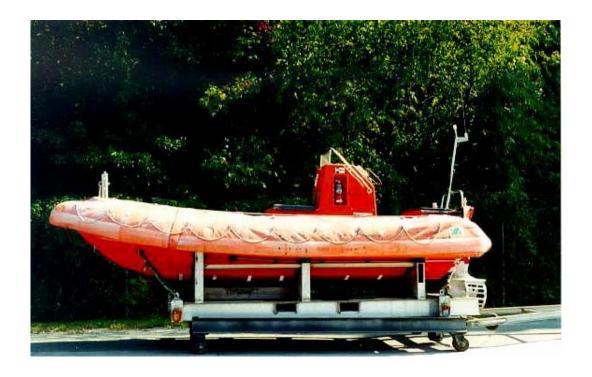
PHYSICAL CHARACTERISTICS

	<u>Operating</u>	Shipping
Length	23 ft, 10 in.	23 ft, 10 in.
Width	9 ft, 2 in	9 ft, 2 in.
Height	10 ft, 0 in.	10 ft, 0 in.
Cube	2185 cu in.	2185 cu ft
Weight	4465 lb	6000 lb

REFERENCES

1. Technical Manual for 22.5-Foot Rigid Inflatable Boat (RIB-S).

Downloaded from http://www.everyspec.com



22.5' Rigid Hull Inflatable Boat Cradle BC0740 with 22.5' Rigid Hull Inflatable Boat WB0740

CRADLE, 22.5' RIGID HULL INFLATABLE BOAT

ESSM NUMBER BC0740

DESCRIPTION

The 22.5' Rigid Hull Inflatable Boat Cradle (BC0740) is constructed from aluminum I-beam and channel. It is made to fit the contour of the hull of the 24' Rigid Hull Inflatable Boat. To prevent damage to the bottom of the boat, the cradle supports are fitted with pressure-treated pine timbers covered with indoor-outdoor carpet and are bolted to the three sets of cradle supports. To support the keel of the boat there is a pressure-treated timber running the length of the cradle.

The 22.5' Rigid Hull Inflatable Boat Cradle (BC0740) is used as a storage and shipping cradle for transportation on military air cargo planes or on over-the-road flatbed trailers.

SPECIFICATIONS

Manufacturer ESSM Facility

PHYSICAL CHARACTERISTICS

	Operating/Shipping (with boat)	Shipping (without boat)
Length	23 ft, 10 in.	15 ft, 0 in.
Width	9 ft, 2 in.	8 ft, 1 in.
Height	10 ft, 0 in.	3 ft, 7 in.
Cube	2185 cu ft	434 cu ft
Weight	6000 lb	1535 lb

REFERENCES

None



4-Leg Roundsling Bridle SL0386

ROUNDSLING BRIDLE, POLYESTER, 4-LEG (2- 20', 2- 20' 3")

ESSM NUMBER SL0386

DESCRIPTION

The 4-Leg Polyester Roundsling Bridle SL0386 is an assembly consisting of 4 synthetic slings. Each sling is made from polyester yarn covered by a double-wall tubular jacket. The slings are attached to a D-ring at one end and each is fitted with a screw pin shackle at the other.

The 4-Leg Polyester Roundsling Bridle is used for lifting the 22.5' Rigid Hull Inflatable Boat Cradle and boat.

Shackle

SPECIFICATIONS

Sling

<u>Simg</u>		<u>Sitterie</u>	
Manufacturer	Lift-All	Manufacturer	Crosby
Model	QOS-EN60	Part number	G-209
Vertical SWL	5300 lb	Size	5/8 in.
Choker SWL	4200 lb	Working load limit	6500 lb
Basket SWL	10,600 lb		
Overall length	20 ft, 5 in.		

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length (operating)	20 ft, 5 in.
Cube (coiled for shipping)	4 cu ft
Weight	36 lb

REFERENCES

1. Lift-All 1998 Catalog.



VHF Marine Mobile Radio RA1831

RADIO, VHF, MARINE MOBILE, ICOM (58-CHANNEL)

ESSM NUMBER RA1831

DESCRIPTION

The Icom VHF Marine Mobile Radio RA1831 is a marine VHF/FM transceiver with intercom features and a public address system in a moisture-resistant console. The radio requires a supply voltage of 13.8-volt dc negative ground and operates in the frequency range of 156-163 MHz. The radio has 58 programmed marine transmit/receiver channels and 10 weather channels.

The radio has the following advanced features: voltage source deviation indicator; 25W of high transmission output power; dual watch and a variety of scans; 20 user-programmed memory channels; momentary high power on Channels 13 and 67; single-tone, double high-tone, and double low-tone beeps; high sensitivity and strong intermodulation rejection; and a built-in lithium battery to retain the information programmed into the memory channels. The life of the lithium battery is approximately 5 years. The Icom radio models IC-M56, IC-M58, and IC- M402S are currently in use in the ESSM System with their appropriate instruction manuals. All models are functionally equivalent.

SPECIFICATIONS

Manufacturer Icom Model IC-M56 IC-M58

IC- M402S

Usable temperature range -20° to +60°C (-4 to +140°F) Power supply voltage 13.8 V dc negative ground

Channels:

Transmit 58
Weather 10

Receiver:

Frequency range 156 to 163 MHz Audio output power 4W with a 4-ohm load

Intermediate frequency 1st: 21.8 MHz; 2nd: 455 kHz

Transmitter:

Frequency range 156 to 157.5 MHz
Output power 25 W high, 1 W low

RADIO, VHF, MARINE MOBILE, ICOM (58-CHANNEL) (CONTD)

ESSM NUMBER RA1831

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length8 in.Width7 in.Height2 in.Cube1 cu ftWeight3 lb

REFERENCES

- 1. Instruction Manual, Icom IC-M56.
- 1. Instruction Manual, Icom IC-M58.
- 2. Instruction Manual, Icom IC-M402S.

Downloaded from http://www.everyspec.com



4-Leg Roundsling Bridle SL0384

ROUNDSLING BRIDLE, POLYESTER, 4-LEG (2- 7' 8", 2- 8'4")

ESSM NUMBER SL0384

DESCRIPTION

The 4-Leg Polyester Roundsling Bridle SL0384 is an assembly consisting of 4 synthetic slings. Each sling is made from polyester yarn covered by a double-wall tubular jacket. The slings are attached to a D-ring at one end and each is fitted with a screw pin shackle at the other.

Chaolda

The 4-Leg Polyester Roundsling Bridle is used for lifting the 22.5' Rigid Hull Inflatable Boat.

SPECIFICATIONS

Clina

Sing		Snackie	
Manufacturer	Lift-All	Manufacturer	Crosby
Model	QO-EN60	Part number	G-209-A
Vertical SWL	5300 lb	Size	1/2 in.
Choker SWL	4200 lb	Working load limit	4000 lb
Basket SWL	10,600 lb		
Overall length	9 ft, 4 in.		

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length (operating)	9 ft, 4 in.
Cube (coiled for shipping)	4 cu ft
Weight	16 lb

REFERENCES

1. Lift-All 1998 Catalog.



22.5' Rigid Hull Inflatable Boat Tool Box TL0075

TOOL BOX, 22.5' RIGID HULL INFLATABLE BOAT

ESSM NUMBER TL0075

DESCRIPTION

The 22.5' Rigid Hull Inflatable Boat Tool Box TL0075 is a basic mechanic's tool set that contains 3/8" drive standard and deepwell sockets and accessories, combination, metric, open-end, pipe, and adjustable wrenches, pliers, hammers and other miscellaneous tools. It contains the necessary tools to set up and perform basic repairs on the 22.5' Rigid Hull Inflatable Boat WB0740.

SPECIFICATIONS

Manufacturer ESSM Facility

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length	1 ft, 4 in.
Width	9 in.
Height	1 ft, 1 in.
Cube	1 cu ft
Weight	30 lb

REFERENCES

None



22' Command Boat WB0941

BOAT, 22' COMMAND

ESSM NUMBER WB0941

DESCRIPTION

The 22' Command Boat WB0941 is a deep V-hull craft designed for fast speeds and rough weather. The command boat is used to transport the On-Scene-Commander, personnel, and equipment to the various locations of operating equipment associated with an oil spill.

SPECIFICATIONS

<u>Boat</u>		<u>Engine</u>	
Manufacturer	Privateer	Manufacturer	Mercruiser
Model	22 ft deep-V	Model	5.7L
		Cylinders	V-8
		Bore	4.00 in.
<u>Transmission</u>		Stroke	3.48 in.
		Displacement	350 cu in.
Manufacturer	Hurth	Compression ratio	9.3:1
Model	630A, 8 (down angle)	Compression pressure	150-160 psig
Transmission fluid	Dexron II-D	Shaft horsepower	235 hp
Shifting pressure	312-377 psig	Idle (fwd gear)	650-700 rpm
Operating temp.	130°	Max rpm	4200-4600
Gear ratio	1.5, 2.0, 2.5	Maximum oil @ 2000 rpm	30-70 psig
		Minimum oil at idle	4 psig
<u>Outdrive</u>		Fuel pressure at 1800 rpm	3-7 psig
		Electrical system	12 V dc
Manufacturer	Mercruiser	Minimum cold cranking amps	350

PHYSICAL CHARACTERISTICS

	<u>Operating</u>	Shipping
Length	24 ft, 2 in.	29 ft, 6 in.
Width (Beam)	8 ft, 6 in.	8 ft, 6 in.
Height	7 ft, 3 in.	7 ft, 6 in.
Cube	1490 cu ft	1880 cu ft
Weight	4360 lb	5392 lb

REFERENCES

1. Mercruiser Service Manual Number 17.



VHF Marine Mobile Radio RA1831

RADIO, VHF, MARINE MOBILE, ICOM (58 CHANNEL)

ESSM NUMBER RA1831

DESCRIPTION

The Icom VHF Marine Mobile Radio RA1831 is a marine VHF/FM transceiver with intercom features and a public address system in a moisture-resistant console. The radio requires a supply voltage of 13.8-volt dc negative ground and operates in the frequency range of 156-163 MHz. The radio has 58 programmed marine transmit/receiver channels and 10 weather channels.

The radio has the following advanced features: voltage source deviation indicator; 25W of high transmission output power; dual watch and a variety of scans; 20 user-programmed memory channels; momentary high power on Channels 13 and 67; single-tone, double high-tone, and double low-tone beeps; high sensitivity and strong intermodulation rejection; and a built-in lithium battery to retain the information programmed into the memory channels. The life of the lithium battery is approximately 5 years. The Icom radio models IC-M56, IC-M58, and IC- M402S are currently in use in the ESSM system with its appropriate instruction manuals. All models are functionally equivalent.

SPECIFICATIONS

Manufacturer Icom
Model IC-M56
IC-M58

IC-M402S

General

Usable temperature range -20° to +60°C (-4 to +140°F) Power supply voltage 13.8 V dc negative ground

Channels

Transmit 58
Weather 10

Receiver

Frequency range 156 to 163 MHz
Audio output power 4W with a 4-ohm load

Intermediate frequency 1st: 21.8 MHz; 2nd: 455 kHz

Transmitter

Frequency range 156 to 157.5 MHz
Output power 25 W high, 1 W low

RADIO, VHF, MARINE MOBILE ICOM (58 CHANNEL) (CONTD)

ESSM NUMBER RA1831

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length8 in.Width7 in.Height2 in.Cube1 cu ftWeight3 lb

REFERENCES

- 1. Instruction Manual, Icom IC-M56.
- 2. Instruction Manual, Icom IC-M58.
- 3. Instruction Manual, Icom IC-M402S.

Downloaded from http://www.everyspec.com



22' Command Boat Tool Box TL0070

TOOL BOX, 22' COMMAND BOAT

ESSM NUMBER TL0070

DESCRIPTION

The 22' Command Boat Tool Box TL0070 is a basic mechanic's tool set that contains 3/8" drive sockets and accessories, combination, open-end, pipe, and adjustable wrenches, pliers, hammers and other miscellaneous tools. It contains the necessary tools to set up and perform basic repairs on the 22' Command Boat WB0941.

SPECIFICATIONS

Manufacturer ESSM Facility

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length 1 ft, 7 in.
Width 10 in.
Height 9 in.
Cube 1 cu ft
Weight 26 lb

REFERENCES

None



22' Command Boat Trailer TR0951 with 22' Command Boat WB0941

TRAILER, 22' COMMAND BOAT WB0941

ESSM NUMBER TR0951

DESCRIPTION

The Command Boat Trailer TR0951 is used to transport, launch, and recover the 22-foot Command Boat. The trailer is also used as a storage platform when the Command Boat is not in use. The trailer is equipped with an electrically operated winch, surge-type brakes, and adjustable suspension.

SPECIFICATIONS

Manufacturer Calkins

PHYSICAL CHARACTERISTICS

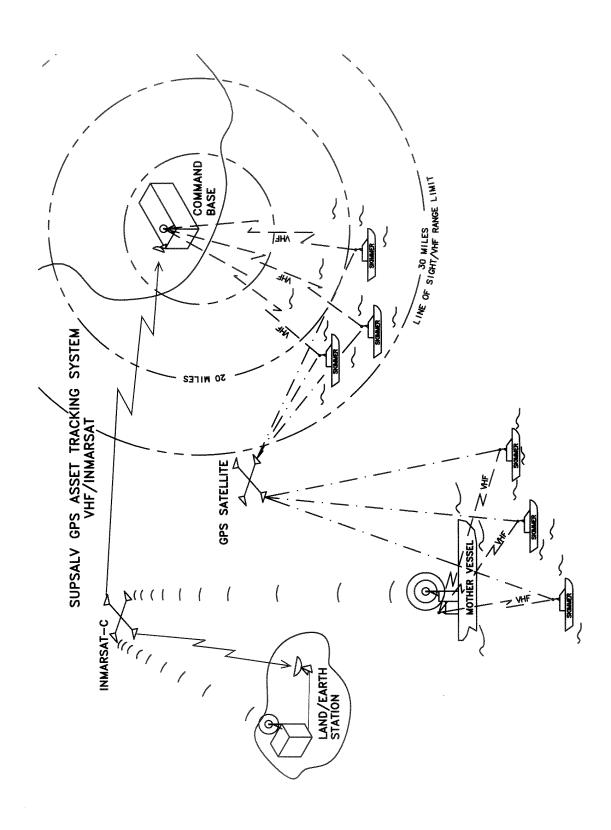
	Operating/Shipping (with boat)	Shipping (without boat)
Length	26 ft, 5 in.	29 ft, 6 in
Width	8 ft, 6 in.	8 ft, 1 in.
Height	4 ft, 10 in.	7 ft, 6 in.
Cube	1880 cu ft	1032 cu ft
Weight	5392 lb	1980 lb

REFERENCES

None

Downloaded from http://www.everyspec.com

GPS RESPONSE ASSET TRACKING SYSTEM P20100



GPS Respone Asset Tracking System P20100

GPS RESPONSE ASSET TRACKING SYSTEM

SYSTEM NUMBER P20100

SYSTEM DESCRIPTION

The GPS Response Asset Tracking System (RATS) P20100 is comprised of completely mobile "plug and play" technology. The global positioning receivers (GPS) base location systems are placed aboard skimmers and other equipment that automatically report in near real time through VHF transmission links to a host command vessel or command post. The command post/vessel compiles these position reports and displays them on a laptop computer overlaid on the selected digitized nautical chart or land mapping system. Acting as a forward command post/vessel, the command station is able to watch, direct, and fully coordinate the containment and recovery efforts of the skimming systems under its control. In addition to providing command and control at the local level, the forward command post/vessel automatically sends the position reports to the SUPSALV command post via INMARSAT-C. This communications link, with a typical five- to ten-minute delay from real time, again overlays the position reports on selected chart/map bases and provides SUPSALV a worldwide linkage to operational elements responding to a pollution incident.

A large, open water oil spill generally spreads over vast amounts of ocean and ranges far along coastlines. This creates logistical and communications problems, especially when weather is unfavorable. Skimmers equipped with GPS systems allow for central control of their locations. This, along with oil tracking buoys, permits command and control to follow spills at night or in conditions unfavorable to aircraft deployment such as fog, and to effectively reposition equipment when recovery operations resume.

There are two configurations of the GPS Response Asset Tracking System (RATS) P20100. Both systems are the same except that the second configuration contains an Over-the-Air Video Kit GP0111.

SYSTEM COMPONENTS

<u>Item</u>	ESSM Number	<u>Qty</u>
1. GPS Response Asset Tracking System		1
GPS Tracking Base Station	GP0100	2
Palmtop Computer	CO1100 (not shown)	1
Laptop Computer (Older Technology)	CO1110 (not shown)	1
Case, Support, GPS Base Station	GP0105	2
GPS Mobile Tracking Station	GP0110	6
GPS Mobile Tracking Station, Helo	GP0115	1

GPS RESPONSE ASSET TRACKING SYSTEM

SYSTEM NUMBER P20100

SYSTEM COMPONENTS (Contd)

<u>Ite</u>	<u>em</u>	ESSM Number	<u>Qty</u>
2.	GPS Response Asset Tracking System		1
	GPS Tracking Base Station	GP0100	2
	Palmtop Computer	CO1100 (not shown)	1
	Laptop Computer (Older Technology)	CO1110 (not shown)	1
	Case, Support, GPS Base Station	GP0105	2
	GPS Mobile Tracking Station	GP0110	6
	Video Kit, Over-the-Air	GP0111	1
	Camera, Video, Digital 8MM, CCD-TR87	CM0941	1
	GPS Mobile Tracking Station, Helo	GP0115	1

Downloaded from http://www.everyspec.com



GPS Tracking Base Station GP0100 Shipping Configuration



GPS Tracking Base Station GP0100

GPS TRACKING BASE STATION

ESSM NUMBER GP0100

DESCRIPTION

The GPS Tracking Base Station GP0100 provides the nucleus of the contingency planning function and of field operations with a visual display of deployed assets on the appropriate nautical chart or land map. Information is displayed on the integral supporting Pentium laptop and in some cases enlarged to a 17-inch SVGA monitor. The 486 data/logger maintains a complete replayable history of the tracked assets, which may be used as a post-exercise training tool. The computer has the ability to select a wide variety of chart or map databases to both plan and conduct operations. The RATS system is able to select from nautical chart bases that include NOAA Environmental Sensitivities Indices (ESI) and may be used as an operational baseline for both tracking and planning. Operations on land, river, and streams are accomplished by using Tiger Line file map databases. The preferred method for entering chart data is through a CD-ROM provided by the chart originator, for example the NOAA nautical charts on CD from BSB, which are packaged with the baseline operational capability. Additionally, hard copy charts can be digitized on an as-needed basis and stored on the hard drive.

The base station's software, normally located on the command vessel and at the command post, has the simultaneous capability to plan and execute all containment, recovery, and logistics support operations on the Pentium laptop. The operations element can free draw on the supporting chart or map base. Plans for booming operations are overdrawn and automatically calculate the latitude of the start and finish points, heading, and distance expressed in either feet, nautical, or statute miles. Once operationally placed, these boom operations are saved within the program after being tagged with appropriate symbol, type, owner, and descriptive annotations. Automatic summary inventories are created by type of equipment deployed, allowing the user to readily find not only individual equipment but the total units of that equipment in use. After a time of entry into the program, operational actions such as placement of boom are automatically time-clicked and placed into the operational log.

Reporting vessels and equipment automatically provide position, speed, and heading. History trails are available on call so that the operations center can observe the vessel's operational history over a selected period of time. An additional 12 data ports within the system allow for the recording and transmission of weather, engine, and other remote sensors located onboard. Imbedded safety features include an automated "not-heard-from" function and a crew-operated panic button. By activating an onboard switch, the crew is able to automatically send a distress signal with position and tracking immediately highlighted with both visual and audio signal in the command post.

The command post maintains their operational logs within the system. All equipment entries are automatically placed into the log and narrative entries are typed by the operator. All transactions are time-relative to the vessel tracking system and can be recalled for an operational snapshot or entire operational replay. Direct print capability and direct fax capability allow the operator to produce hard copy charts with all overlays, equipment, and logs at any point in time. These products can be faxed directly to designated activities.

GPS TRACKING BASE STATION

ESSM NUMBER GP0100

SPECIFICATIONS

The base station controller unit consists of the following:

<u>Item</u>	Qty
Base Station Controller Unit Case:	1
Laptop PC, display	1
Laptop PC, maintenance	1
Radio, communications	1
Base VDML unit, Autofind	1
Transceiver, INMARSAT C	1
PC and keyboard, 486 data logger	1
Power supplies:	
Radio	1
Laptop	1
INMARSAT	1
External mouse	1
Video monitor, external (VGA/SVGA)	1

PHYSICAL CHARACTERISTICS

	<u>Operating</u>
Length	3 ft, 6 in.
Width	2 ft, 6 in.
Height	2 ft, 0 in.
Cube	17 cu ft
Weight	166 lb

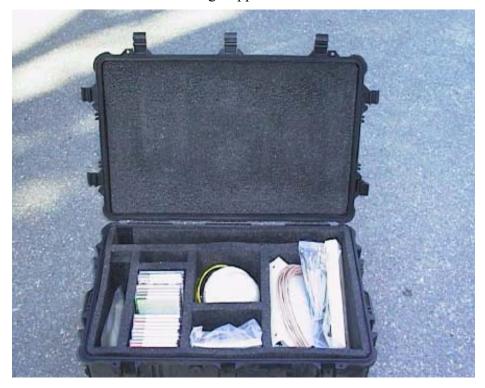
REFERENCES

1. Operator's Manual for Autofind Tracking System.

Downloaded from http://www.everyspec.com



GPS Tracking Support Case GP0105



GPS Tracking Support Case GP0105

CASE, SUPPORT, GPS BASE TRACKING

ESSM NUMBER GP0105

DESCRIPTION

The GPS Base Tracking Support Case GP0105 contains the necessary ancillary items to set up and operate the GPS tracking system in the field.

SPECIFICATIONS

The Base Tracking Support Case consists of the following:

<u>Item</u>	<u>Qty</u>
Pelican-style carrying case (32" x 21" x 12"):	1
Power strip, ac	1
Antenna, INMARSAT-C	1
Antenna, VHF clip-on	2
Base antenna, magnetic	1
Cable, INMARSAT, antenna, 50'	1
Cable, INMARSAT, antenna, 25'	1
Cable, RG58U, 15'	2
Cable, RG58U, 25'	2
Cable, RG58U, 50'	1
Chart, nautical, CD, regions 2,3,4,6,7,8,10,	
12,13,14,15,17,22,24,26,40	1 set
Clamp, hose, 5" diameter	3
Clamp, mast	2
Cord, power	1
P-Map on CD	1
Power cord, mobile	1
U-Bolt, 1 1/2"	2
Wire connectors for antenna	1 bag
Wire ties	1 bag
Inventory, laminated	1

CASE, SUPPORT, GPS BASE TRACKING

ESSM NUMBER GP0105

PHYSICAL CHARACTERISTICS

	Shipping
Length	2 ft, 8 in.
Width	1 ft, 9 in.
Height	1 ft, 0 in.
Weight	45 lb

REFERENCES

1. Operator's Manual for Autofind Tracking System.

Downloaded from http://www.everyspec.com



GPS Mobile Tracking Station GP0110



GPS Mobile Tracking Station GP0110

GPS MOBILE TRACKING STATION

ESSM NUMBER GP0110

DESCRIPTION

The GPS Mobile Tracking Station GP0110 is placed aboard a vehicle or vessel and will transmit its location to the base station on the same frequency. The same frequency is shared using a time-sharing algorithm. That is, each mobile unit is assigned a time slot in which it will transmit. In this way, multiple mobile units can share a single frequency without mutual interference. The GPS tracking system can operate independently of the type of communication link used for carrying the transmitted position reports from the mobile units to the base. The link can be any VHF radio, UHF radio, trunked line, satellite communications, cellular phone, or other links.

SPECIFICATIONS

The mobile unit consists of the following:

<u>Item</u>	<u>Qty</u>
Pelican-style carrying case (13" x 13" x 6")	1
Radio, communications	1
VDML unit, mobile	1
Antenna, GPS	1
Cable, power	1
Amplifier w/bracket	1
Antenna base w/10' cable	1

PHYSICAL CHARACTERISTICS

	Shipping
Length	1 ft, 1 in.
Width	1 ft, 0 in.
Height	6 in.
Cube	1 cu ft
Weight	5 lb

REFERENCES

1. Operator's Manual for Autofind Tracking System.



Over-the-Air Video Kit GP0111



Over-the-Air Video Kit GP0111

VIDEO KIT, OVER-THE-AIR

ESSM NUMBER GP0111

DESCRIPTION

The Over-the-Air Video Kit GP0111 is an interactive, imaging system designed to remotely monitor areas of interest via either overt or covert means. The information collected is sent over radio frequency (RF) data links to a control display unit (CDU) which displays the images. A CDU operator has the flexibility to control camera selection, adjust framing rates for the cameras, enhance image quality, activate camera triggering programs using intelligent sensors, archive imagery to computer disk, display real-time images or play back stored images, and activate a relay at any of the remote locations. All images collected can also be distributed to additional users via standard phone lines, local area networks, or over the Internet from the CDU. There are two models, a fixed and a portable model. The fixed model is for permanent installations where ac power is available for all or part of the system. The portable system is for temporary installations and is dc-powered. This manual describes the portable system.

An Over-the-Air Video Kit remote site consists of a maximum of four cameras and a remote processor unit (RPU). The cameras can be configured in any combination of color and black and white (b/w), with a mixture of interchangeable lenses. This allows one to establish panoramic (360°) or strategic coverage of critical and high traffic areas. By using a wavelet compression algorithm the video image is converted into a digital file which can be transmitted to the CDU for decompression and viewing. As part of the optional equipment offered, the cameras can be either black and white or color and an IR illuminator can be purchased for low light applications.

The Over-the-Air Video System uses two types of communications between the remote processing unit (RPU) and the RF communications interface unit (RFCIU). The primary command link is VHF line of sight that the systems uses for various control functions. The second communications link is the actual transmission of the digital video communications path. It is very important that both these communications paths be established, or the system will not function properly. For those applications where line of sight communications is difficult to obtain, an optional remote relay unit can be purchased which can be placed to maintain the line of sight communication path and extend the distance between the target and the monitoring position where the CDU is located.

VIDEO KIT, OVER-THE-AIR

ESSM NUMBER GP0111

SPECIFICATIONS

Manufacturer Corp Ten

The Over-the-Air Video Kit consists of the following:

Item	Qty
Antenna control case (57" x 10" x 10 1/2"	1
Antenna, command control	2
Video kit case 1(23 1/2" x 20" x 9")	1
Power adapter, ac	1
Amplifier w/bracket	1
Antenna base w/10' cable	1
Antenna, video	1
Battery pack (6 AA batteries)	1
AA battery	1
Bracket, antenna	2
Bracket, base video antenna	1
Cable, antenna, 50'	1
Cable, RFCIU to computer	2
Cable, pigtail (black & red)	1
Cable, video out to camera	1
Cable, video, 50-ohm, flexible, 2'	1
RG58CU video cable	1
Cable, AV video	1
Camera, digital video, 8mm, CM0941	1
Power cord, adapter to outlet	1
Power cord, outlet to RFCIU box	1
Inventory, laminated	1
Digital Video System Operator's Manual	1
Power injector, dc	1
Power supply box, ac	1
Power supply box, ac to dc	1
Remote control, video camera	1
Connection box, RFCIU single	1
Video tape, 8mm	1
Video kit case 2(18 1/2" x 15" x 5")	1

VIDEO KIT, OVER-THE-AIR

ESSM NUMBER GP0111

SPECIFICATIONS (Contd)

<u>Item</u>	<u>Qty</u>
Antenna control, flexible	1
Antenna control, telescopic	1
Antenna, video, 4 1/2" stub	1
Antenna, video, 5 1/2" stub	1
Battery, lithium	2
Connection box, RFCIU single	1
Carrying strap	1

PHYSICAL CHARACTERISTICS

	Shipping
Length	2 ft, 0 in.
Width	1 ft, 8 in.
Height	9 in.
Cube	2.5 cu ft
Weight	31 lb

REFERENCES

1. Operator's Manual for Autofind Tracking System.



Helo GPS Mobile Tracking Station GP0115 Shipping Configuration



Helo GPS Mobile Tracking Station GP0115

GPS MOBILE TRACKING STATION, HELO

ESSM NUMBER GP0115

DESCRIPTION

The Helo GPS Mobile Tracking Station GP0115 is placed aboard a helicopter and will transmit its location along with the type of oil spotted to the base station operating on the same frequency via a spotter control unit (SPU). There are four settings on the SPU for the type of oil spill spotted; sheen, mousse, black oil, and streamers. The operator sets the SPU to the appropriate type of oil spill spotted and then presses the Push To Send button, at which time the data is transmitted to the base station and the location is plotted. The GPS tracking system can operate independently of the type of communication link used for carrying the transmitted position reports from the mobile units to the base. The link can be any VHF radio, UHF radio, trunked line, satellite communications, cellular phone, or other links.

SPECIFICATIONS

The mobile unit consists of the following:

<u>Item</u>	<u>Qty</u>
Storage case (13" x 13" x 6"):	1
Antenna, GPS	1
Cable, parallel computer	1
Cable, Interface (black & red)	1
Helo Mobile Tracking Station	1
Interface, GPS	1
Inventory, laminated	1
Radio, GPS VHF	1

PHYSICAL CHARACTERISTICS

	Shipping	
Length	1 ft, 1 in.	
Width	1 ft, 0 in.	
Height	6 in.	
Cube	1 cu ft	
Weight	5 lb	

REFERENCES

1. Operator's Manual for Autofind Tracking System.

Downloaded from http://www.everyspec.com

HOSE VAN P20200



Hose Van P20200

HOSE VAN

SYSTEM NUMBER P20200

SYSTEM DESCRIPTION

Almost all pollution response systems involve hoses of some type. The Hose Van P20200 contains 2inch, 3-inch, 4-inch, and 6-inch diameter hoses in sufficient quantities to meet the suction and discharge needs of a large scale oil spill operation. The quantities packaged in the primary response systems are normally adequate for first response; however, on large operations, additional hose or replacement hose is always required. Having these additional hoses readily available allows operations to continue if problems arise. See SPECIFICATIONS section of the Hose Supply and Support Van VA0120 for type and quantity of hose supplied with the system.

SYSTEM COMPONENTS

<u>Item</u>	ESSM Number	<u>Qty</u>
1. Van, Hose Supply and Support	VA0120	1



Hose Supply and Support Van VA0120

VAN, HOSE SUPPLY AND SUPPORT

ESSM NUBER VA0120

The Hose Supply and Support Van VA0120 contains 2-inch, 3-inch, 4-inch, and 6-inch diameter suction and discharge hoses in sufficient quantities to meet the suction and discharge needs of a large scale oil spill operation. The need in the field to repair and replace hose is a constant problem, so additional hose or replacement hose is usually required. Having these additional hoses readily available allows recovery operations to continue if problems arise. See SPECIFICATIONS section for type and quantity of hose supplied with the Hose Supply and Support Van VA0120.

SPECIFICATIONS

<u>Hose</u>	<u>Total</u>
2" X 50' Artic Flexing hose w/m/f camlock fittings	600 ft
3" X 50' Artic Flexing hose w/m/f camlock fittings	600 ft
3" X 50' Titan layflat hose w/ m/f camlock fittings	450 ft
4" X 50' Artic Flexing hose w/m/f camlock fittings	600 ft
4" X 50' Titan layflat hose w/ m/f camlock fittings	350 ft
6" x 20', Goodyear layflat hose w/m/f camlock fittings	120 ft
6" X 25', Angus Chemicoil layflat hose w/m/f/ camlock fittings	50 ft
6" X 50' Titan layflat hose w/ m/f camlock fittings	300 ft
6" X 50', Angus Chemicoil layflat hose w/m/f/ camlock fittings	200 ft
6" X 50', Titan layflat hose w/m/f Hydasearch fittings	300 ft

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length	20 ft, 0 in.
Width	8 ft, 0 in.
Height	8 ft, 0 in.
Cube	1280 cu ft
Weight	17,620 lb

REFERENCES

None

Downloaded from http://www.everyspec.com

RAPID PERSONNEL/EQUIPMENT TRANSFER SYSTEM P20000





Rapid Personnel/Equipment Transfer System P20000

RAPID PERSONNEL/EQUIPMENT TRANSFER SYSTEM

SYSTEM NUMBER P20000

SYSTEM DESCRIPTION

The Rapid Personnel/Equipment Transfer System P20000 consists of a 36-foot, diesel-powered, hovercraft-type workboat equipped with a VHF marine mobile radio, a radar, a 50-foot shore power cable, and a tool box.

The following ancillary items are onboard: a compass, anchor and anchor line, headsets for communicating inside the vessel, life preservers, a first aid kit, a flare kit, spare skirt segments, spare skirt cable, skirt repair kit, spare parts, oil, fuel, and air filters, oil, electrical fuses, light bulbs, a hover beacon, a flashlight, and all the necessary manuals for operating, maintaining, and servicing the 36' Hovercraft WB0975.

The P20000 system is designed to support the inflatable boom tending boats, which are generally smaller, slower, and usually busy with their task of tending boom. During large spill operations, skimmers and maintenance vessels can be scattered over very large distances; 100 miles is not uncommon. The Rapid Personnel/Equipment Transfer System makes it possible to supply crews with meals, parts, water, and other necessary items, as well as tend to emergencies and change out relief crews.

SYSTEM COMPONENTS

<u>Item</u>	ESSM Number	<u>Qty</u>
1. Workboat, 36' Hovercraft, Diesel	WB0975	1
Radio, VHF, Marine Mobile, Icom (58-Channel)	RA1831	1
Radar, Model 1730/1731	RD0001	1
Tool Box, 36' Hovercraft WB0975	TL0035	1



36-Foot Hovercraft WB0975



36-Foot Hovercraft WB0975 on 40-Foot Flatbed Trailer

WORKBOAT, 36' HOVERCRAFT, DIESEL

ESSM NUMBER WB0975

DESCRIPTION

The 36' Hovercraft WB0975 is a fully amphibious hovercraft capable of carrying a crew of four and as many as nine passengers. The craft operates on a cushion of low pressure air, contained under the craft by a flexible, segmented rubber skirt. The skirt allows the craft to lift approximately 23 inches above the operating surface, and obstacles not exceeding this height will pass under and through the flexible skirt with a minimum of drag. Air for the cushion is supplied by a centrifugal-type fan situated forward of the engine. Air is drawn through a louver into the air intake bay and then into the central eye of the fan. Air is directed into the skirt through ducts on each side of the craft.

Power to the lift fan and the propeller is supplied by a Cummins 6CTA 8.3M-1 water-cooled engine. The engine is protected by a knit mesh filter system through which cooling and combustion air is drawn. The knit mesh filters are removable for cleaning and for access to the service bay. Two doors provide access to the engine for routine servicing; for major overhauls the access doors can be removed.

Engine

SPECIFICATIONS

Max. wind speed

20 knots

Hovercraft

Manufacturer	Singsby Aviation Ltd	Manufacturer	Cummins
Model	SAH 2200	Model	6 CTA 8.3M-1
Max. load (including fuel)	3300 lb	Control parts list number	1221
Crew	4	Cylinders	6
Passengers	9	Displacement	505 cu in.
Lift fan	12-blade	Horsepower @ 2500 rpm	300
	Air vehicle type	Maximum rpm	2500
	1m diameter	Fuel consumption	18.6 gph
Propeller	3-blade	Cruising rpm	2200
_	Variable pitch	Fuel consumption	13.0 gph
	Reversible	Starter	Electric
	1.5m diameter	Battery	Two 12 V dc
Maximum speed:		Fuel	Diesel
Over water	40 knots	Fuel capacity	
Over land	20 knots	Fwd tank	66 gallons
Off cushion	4 knots	Aft tank	69 gallons
Worst intended conditions:			'
Max. wave height	2 ft, 6 in.		

WORKBOAT, 36' HOVERCRAFT, DIESEL (CONTD)

ESSM NUMBER WB0975

PHYSICAL CHARACTERISTICS

	<u>Operating</u>	Shipping		
Length	36 ft, 0 in.	36 ft, 0 in.		
Width	14 ft, 0 in.	8 ft, 0 in.		
Height	13 ft, 0 in.	9 ft, 2 in.		
Cube	6552 cu ft	2464 cu ft		
Weight	9440 lb	9440 lb		

REFERENCES

1. SAH 2200 Hovercraft Operating Manual for Cummins Water-Cooled Engine Craft.

Downloaded from http://www.everyspec.com



VHF Marine Mobile Radio RA1831

RADIO, VHF, MARINE MOBILE, ICOM (58-CHANNEL)

ESSM NUMBER RA1831

DESCRIPTION

The Icom VHF Marine Mobile Radio RA1831 is a marine VHF/FM transceiver with intercom features and a public address system in a moisture-resistant console. The radio requires a supply voltage of 13.8-volt dc negative ground and operates in the frequency range of 156-163 MHz. The radio has 58 programmed marine transmit/receiver channels and 10 weather channels.

The radio has the following advanced features: voltage source deviation indicator; 25W of high transmission output power; dual watch and a variety of scans; 20 user-programmed memory channels; momentary high power on Channels 13 and 67; single-tone, double high-tone, and double low-tone beeps; high sensitivity and strong intermodulation rejection; and a built-in lithium battery to retain the information programmed into the memory channels. The life of the lithium battery is approximately 5 years. The Icom radio models IC-M56, IC-M58, and IC-M402S are currently in use in the ESSM System with their appropriate instruction manuals. All models are functionally equivalent.

SPECIFICATIONS

Manufacturer Icom Model IC-M56 IC-M58

IC-M38 IC-M402S

General

Usable temperature range -20° to +60°C (-4 to +140°F) Power supply voltage 13.8 V dc negative ground

Channels:

Transmit 58 Weather 10

Receiver:

Frequency range 156 to 163 MHz
Audio output power 4W with a 4-ohm load
Intermediate frequency 1st: 21.8 MHz; 2nd: 455 kHz

Transmitter:

Frequency range 156 to 157.5 MHz
Output power 25 W high, 1 W low

RADIO, VHF, MARINE MOBILE, ICOM (58 CHANNEL) (CONTD)

ESSM NUMBER RA1831

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length8 in.Width7 in.Height2 in.Cube1 cu ftWeight3 lb

REFERENCES

- 1. Instruction Manual, Icom IC-M56.
- 2. Instruction Manual, Icom IC-M58.
- 3. Instruction Manual, Icom IC-M402S.

Downloaded from http://www.everyspec.com



Radar Model 1730 RD0001

RADAR, MODEL 1730/1731

ESSM NUMBER RD0001

DESCRIPTION

The Furuno Model 1700/1730 Radar RD0001 is a standard radar (radio detection and ranging) unit used to indicate a target object's range and bearing location. The radar unit determines the distance to a target by calculating the time difference between the transmission of a radar signal and reception of the reflected echo

The range and bearing of a target is displayed on a visual indicating screen. This display shows the transmitting ship's position at the center. Target image echoes are received and displayed as a sight signal on the visual display screen and show the distance and relative bearing from the transmitting vessel. The motion of the transmitting ship is also displayed along with the target images.

SPECIFICATIONS

Manufacturer	Furun	0						
Scanner unit:								
Peak output power	3 kW	nomina	1					
Display unit:								
Indication system	Raster scan, daylight display							
Picture tube	7 in. d	iagonal	, green	phosph	or CRT			
Range (nm)	0.25	0.5	1	2	4	8	1	24
Range ring interval (nm)	0.125	0.25	0.5	1	2	4	4	4
Number of rings	2	4	4	4	4	4	4	4
Interference rejecter	Built-i	in						
Ambient temperature	Scann	er unit:	-25°C	to +70°	C;			
	Displa	y unit:	-15°C t	$10 + 55^{\circ}$	\mathbf{C}			
Relative Humidity	95% o	r less a	t +40°C					
Power supply & consumption	10.2 V dc - 40.0 V dc, 47 W approx. (25 W approx. in							
	econo	my mod	le);					
	100/11	10/220/2	230 V a	ac, 50/60	0 Hz, 1	rectifier	require	ed

RADAR, MODEL 1730/1731 (CONTD)

ESSM NUMBER RD0001

PHYSICAL CHARACTERISTICS

	Operating/Shipping		
Length	2 ft, 9 in.		
Width	2 ft, 9 in.		
Height	2 ft, 9 in.		
Weight	170 lb		
Cube	21 cu ft		

REFERENCES

- 1. Operator's Manual, Marine Radar Furuno Model 1730, OM-E3330-OA.
- 2. Service Manual, Marine Radar Furuno Model 1730, SM-E3330-OA.

Downloaded from http://www.everyspec.com



36' Hovercraft Tool Box TL0035

TOOL BOX, 36' HOVERCRAFT WB0975

ESSM NUMBER TL0035

DESCRIPTION

The 36' Hovercraft Tool Box TL0035 is a basic mechanic's tool set that contains 3/8" drive metric sockets and accessories, metric combination wrench set, adjustable wrenches, pliers, hammers, Phillips and standard screwdrivers, and other miscellaneous tools. It contains the necessary tools to set up and perform basic repairs on the 36' Hovercraft WB0975.

SPECIFICATIONS

Manufacturer ESSM Facility

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length 1 ft, 7 in.
Width 8 in.
Height 8 in.
Cube 1 cu ft
Weight 32 lb

REFERENCES

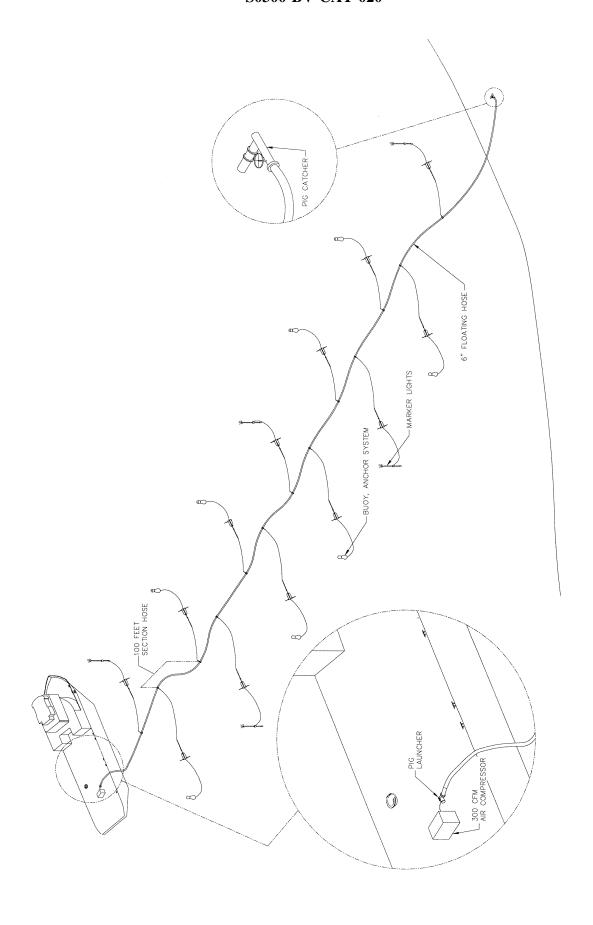
None

Downloaded from http://www.everyspec.com

ESSM Number CD0010 Deleted.

Downloaded from http://www.everyspec.com

FLOATING HOSE SYSTEM P08100



FLOATING HOSE SYSTEM

SYSTEM NUMBER P08100

SYSTEM DESCRIPTION

The Floating Hose System P08100 consists of four, 20-foot storage/shipping vans; 5000 feet of 6" x 100' Layflat Floating Hose HS0822; a 22-Cfm Diesel Air Compressor AC0501; a 300-Cfm Hydraulic Air Compressor AC0700; a 1-Phase, 240-V ac, 9-kW Diesel Generator GE0470; a Mod 9 Diesel Hydraulic Power Unit PW0020; five Floating Hose Reels RL0031; a Pig Launcher HC0005; a Pig Catcher HC0006; four 16' Polyester Roundslings SL0012; and the necessary ancillary equipment to deploy and maintain the system. The ancillary equipment is stored in wire baskets, which are stored in the storage/shipping vans.

The floating hose system is used to discharge oil from a vessel casualty and transfer it to receiving tankers or barges when it is not possible to bring lightering vessels alongside.

SYSTEM COMPONENTS

<u>Item</u>	ESSM Number	<u>Qty</u>
1. Van, Floating Hose System (Van 1 of 4):	VA2150	1
Air Compressor, 22 cfm@125 psi, Diesel	AC0501	1
HVAC Unit w/Sleeve	AC2001	1
Containment Pool, Machinery, 5' x 5'x12"	CP3000	3
Generator, 9-kW, Dsl, 240-V ac, 1-Phase	GE0470	1
Pig Launcher for Floating Hose System P08100	HC0005	1
Pig Catcher for Floating Hose System P08100	HC0006	1
Pool, Cleaning, 12' x 12'	PC0816	1
Power Unit, Hydraulic, Mod 9, Dsl, 10 gpm @ 2000 psi	PW0020	1
Roundsling, Polyester, 16'	SL0012	4
2. Van, Floating Hose System (Van 2 of 4):	VA2151	1
3. Van, Floating Hose System (Van 3 of 4):	VA2152	1
Reel, Floating Hose	RL0031	3
Hose, 6" x 100', Floating, Layflat, Nitrol SP	HS0822	30
4. Van, Floating Hose System (Van 4of 4):	VA2153	1
Air Compressor, Hydraulic Driven, 300 cfm @200 psi	AC0700	1
Containment Pool, Machinery, 10' x 6' x 12"	CP3010	1
Reel, Floating Hose	RL0031	2
Hose, 6" x 100', Floating, Layflat, Nitrol SP	HS0822	20



Floating Hose System Van VA2150 (Van 1 of 4)

VAN, FLOATING HOSE SYSTEM (VAN 1 of 4)

ESSM NUMBER VA2150

DESCRIPTION

The Floating Hose System Van VA2150 is a 20-foot van used for the storage and shipping of the major components and ancillary equipment of the Floating Hose System. Van #1 contains a 22-Cfm Diesel Air Compressor AC0501, a Single Phase, 240-V ac, 9-kW Diesel Generator GE0470, a Mod 9 Diesel Hydraulic Power Unit PW0020, a Pig Launcher HC0005, a Pig Catcher HC0006, four 16' Polyester Roundslings SL0012, and adapters, fittings, protective clothing, spare parts, and tools to maintain the Floating Hose System.

SPECIFICATIONS

Manufacturer Commercial

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length	20 ft, 0 in
Width	8 ft, 0 in.
Height	8 ft, 0 in.
Cube	280 cu ft
Weight	13,360 lb

REFERENCES



Air Compressor AC0501

AIR COMPRESSOR, 19 CFM @ 125 PSI, DIESEL

ESSM NUMBER AC0501

DESCRIPTION

The Air Compressor AC0501 is a two-stage, high volume unit that provides 19 cfm of compressed air at 125 psig. The air compressor is powered by a 1-cylinder, 6.2-hp diesel engine, which has its own fuel supply tank. The engine is designed to operate at a continuous speed of 3600 rpm for long periods of time. The engine and compressor are enclosed in a protective frame that is mounted on top of a 30-gallon air storage tank with wheels, which allows for easy maneuverability.

SPECIFICATIONS

Air Compressor Assembly

Manufacturer	Emglo Products
Model	GC8YDA-17F

A : C	T •
Air Compressor	Engine
ATT COMDICSSOL	LHISHIE
im compressor	zii ziii e

Manufacturer	Emglo Products	Manufacturer	Yanmar
Model	JU	Model	L60
Capacity	19 cfm	Cylinders	1
Rated operating pressure	125 psi	Bore	2.95 in.
Cylinders	2	Stroke	2.44 in.
Stages	2	Displacement	16.7 cu in.
Rpm	875	Rpm (continuous)	3600
Storage tank	30 gallons	Compression ratio	20:1
Operating pressure range	100 to 120 psig	Starting	Elec./recoil
		Battery	12 V dc
		Fuel	Diesel
		Fuel consumption	0.5 gph

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length	3 ft, 6 in.
Width	2 ft, 1 in.
Height	3 ft, 0 in.
Cube	22 cu ft
Weight	398 lb

AIR COMPRESSOR, 19 CFM @ 125 PSI, DIESEL

ESSM NUMBER AC0501

REFERENCES

- Yanmar Diesel Engine Operation Manual for L-Series Engine.
 Emglo Parts Price List J 288.

Downloaded from http://www.everyspec.com





HVAC Unit w/Sleeve AC2001

HVAC UNIT W/ SLEEVE

ESSM NUMBER AC2001

DESCRIPTION

The HVAC Unit w/Sleeve AC2001 is a 12,000-BTU through-the-wall air conditioner and heat pump. It is designed to maintain a comfortable ambient atmosphere in the van.

SPECIFICATIONS

Manufacturer Frigidaire
Model FAH12EJ2T
BTU 12,000
Volts 230 V ac

PHYSICAL CHACTERISTICS

eratii		

 Length
 2 ft, 0 in.

 Width
 1 ft, 7 in.

 Height
 1 ft, 3 in.

 Cube
 4 cu ft

 Weight
 104 lb

REFERENCES

- 1. Frigidaire Installation Instruction 309000911.
- 2. Frigidaire Owner's Guide 309000823.



5' x 5' x 12" Machinery Containment Pool CP3000

CONTAINMENT POOL, MACHINERY, 5' x 5' x 12"

ESSM NUMBER CP3000

DESCRIPTION

The Machinery Containment Pool CP3000 is a 5' x 5' x 12" urethane berm. Its is used to provide a means of catching and containing any oil, fuel, or contaminants leaking or spilled from the component that it is supporting.

SPECIFICATIONS

Manufacturer Basic Concepts
Fabric material Cooley Urethane

PHYSICAL CHARACTERISTICS

	<u>Operating</u>	Shipping
Length	5 ft, 0 in.	1 ft, 8 in.
Width	5 ft, 0 in.	1 ft, 8 in.
Height	1 ft, 0 in.	6 in.
Cube	25 cu ft	1.5 cu ft
Weight	34 lb	34 lb

REFERENCES



9-kW Diesel Generator GE0470

GENERATOR, 9-kW, DIESEL, 120/240-V AC, 1-PHASE

ESSM NUMBER GE0470

DESCRIPTION

The 9-kW Diesel Generator GE0470 is a self-contained unit surrounded by a protective steel frame. Mounted on the frame are wheels and handles that allow for easy maneuverability. The unit is driven by an air-cooled, four-cycle, two-cylinder diesel engine. The generator can supply up to 9-kW single phase ac power at 120 or 240 volts. The 120- and 240-volt, single phase electrical power is distributed via one 4-prong, 120/240-volt twist-lock outlet; one 3-prong, 120-volt, twist-lock outlet; and two 120-volt, duplex ground fault interrupter (GFI) outlets located on the front panel of the generator. The outlets are protected by two 35-ampere breakers, located above the outlet panel.

SPECIFICATIONS

Generator Assembly		<u>Engine</u>	
Manufacturer	Gillette Manufacturing	Manufacturer	Deutz-Ruggerini
Model	GPD-90E	Model	MD-151
Type	AC	No. cylinders	2
Capacity	9 kW	Horsepower	6.6
Frequency	60 Hz @ 3600 rpm	Rpm	3600
Voltage:	120 V ac, single phase	Starting system	12 volts
	240 V ac, single phase	Fuel	Diesel
Amperage:	71 amps @ 120 volts	Fuel consumption	1.2 gph
	35.5 amps @ 240 volts	Fuel source	5-gal. internal tank

PHYSICAL CHARACTERISTICS

	Operating/Shipping
Length	3 ft, 6 in.
Width	2 ft, 3 in.
Height	3 ft, 1 in.
Volume	21 cu ft
Weight	444 lb

REFERENCES

1. Gillette Manufacturing Owner's Manual for Brushless Generators.



Pig Launcher HC0005

PIG LAUNCHER FOR FLOATING HOSE SYSTEM P08100

ESSM NUMBER HC0005

DESCRIPTION

The Pig Launcher HC0005 consists of a 6-inch manifold assembly that, when connected to the floating hose, will launch a 6-inch cleaning pig into the floating hose. The pig will then clear the floating hose of product. The pig launcher is used in conjunction with the 300-Cfm Hydraulic Air Compressor AC0700, which is used to provide sufficient air pressure to force the pig through the entire length of the floating hose.

SPECIFICATIONS

Manufacturer ESSM Facility

PHYSICAL CHARACTERISTICS

erating/Shipping
t, 8 in.
t, 0 in.
t, 1 in.
cu ft
8 lb

REFERENCES

1. Floating Hose System Pig Launcher, GPC Sketch SK0388.



Pig Catcher HC0006

PIG CATCHER FOR FLOATING HOSE SYSTEM P08100

ESSM NUMBER HC0006

DESCRIPTION

The Pig Catcher HC0006 has a 6-inch manifold assembly that, when connected to the floating hose, will recover the 6-inch cleaning pig after the pig has cleared the floating hose of product.

SPECIFICATIONS

Manufacturer ESSM Facility

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length	6 ft, 7 in.
Width	3 ft, 7 in.
Height	2 ft, 1 in.
Cube	49 cu ft
Weight	368 lb

REFERENCES

- 1. Floating Hose System Pig Catcher, GPC Sketch SK0406.
- 2. 6" Pig Catcher Prototype, GPC Sketch SK1579.



Cleaning Pool PC0816

POOL, CLEANING, 12' X 12'

ESSM NUMBER PC0816

DESCRIPTION

The 12' x 12' Cleaning Pool PC0816 is a rubber pool/berm that provides a means of catching and containing any oil, fuel, or contaminants cleaned from the equipment used during an oil spill cleanup. The pool/berm is able to contain the oil and chemicals from the equipment until it can be pumped out and transported to a disposal site.

SPECIFICATIONS

Manufacturer Carolina Boom

Material 32 oz. Cooley Urethane

Shipping

PHYSICAL CHARACTERISTICS

Length	2 ft, 10 in.
Width	1 ft, 5 in.
Height	11 in.
Cube	4 cu ft
Weight	50 lb

REFERENCES



Mod 9 HPU Front View



Mod 9 HPU Right Side View

Mod 9 Hydraulic Power Unit PW0020

POWER UNIT, HYDRAULIC, MOD 9, DIESEL, 10 GPM @ 2000 PSI

ESSM NUMBER PW0020

DESCRIPTION

The Mod 9 Hydraulic Power Unit (HPU) PW0020 is a portable, diesel driven unit that provides hydraulic fluid up to 10 gpm @ 2000 psi. An adjustable pressure relief valve controls the output pressure delivered to the supply circuit. The HPU is mounted on a wheeled frame and is enclosed in a protective steel housing with four sling points on the external steel tubing frame. Hydraulic connections are made via Aeroquip 5600, -12 series male and female quick disconnect fittings for the hydraulic supply and return, with a 3/8-inch case drain fitting. The unit is shipped with the exhaust muffler attached to the side of the HPU housing, and the muffler is installed prior to operation of the unit.

SPECIFICATIONS

Hydraulic Power Unit Assembly

Model D-17S10-15-W

<u>Diesel Engine</u> <u>Hydraulic Pump</u>

Manufacturer	Deutz-Ruggerini	Manufacturer	Sauer-Sundstrand
Series	MD 191	Model	SNP 2/11
Rpm	2200	Type	Gear
Horsepower	19 @ 3600 rpm	Flow	10 gpm @ 2000 psi
Starting	Electric, 12-volt	Hyd. reservoir	5 gal.
Fuel	Diesel	Fluid type	Rando 46
Eval sameumetian	1	* -	

Fuel consumption 1 gph

Fuel source Internal 4-gal. fuel tank

or external tank using installed fuel pickup

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length	3 ft, 5 in.
Width	2 ft, 7 in.
Height	2 ft, 7 in.
Cube	24 cu ft
Weight (dry)	472 lb

POWER UNIT, HYDRAULIC, MOD 9, DIESEL, 10 GPM @ 2000 PSI

ESSM NUMBER PW0020

REFERENCES

- 1. Operation, Maintenance, and Repair Manual for PortaCo Hydraulic Power Unit, Model D-17S10-15-W.
- 2. Deutz-Ruggerini Use and Maintenance Manual, Engine Type MD150-151 and MD190-191.

ESSM Number PW0021 Deleted.



16' Polyester Roundslings SL0012 (4 per van)

ROUNDSLING, POLYESTER, 16'

ESSM NUMBER SL0012

DESCRIPTION

The 16' Polyester Roundsling SL0012 is an endless synthetic sling made from a skein (continuous loop or hank) of polyester yarn covered by a double-wall tubular jacket. Each sling is supplied with a 1" screw pin-type shackle. Four 16' Polyester Roundslings are used for lifting the van to which they are assigned.

SPECIFICATIONS

Sling		<u>Shackle</u>	
Manufacturer	Lift-All	Manufacturer	Crosby
Model	EN240	Part number	G-209-A
Vertical SWL	21,200 lb	Size	1 in.
Choker SWL	17,000 lb	Working load limit	25,000 lb
Basket SWL	42,400 lb		
Overall length	16 ft, 0 in.		

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length (operating)	16 ft, 0 in.
Cube (coiled for shipping)	4 cu ft
Weight	18 lb

REFERENCES

1. Lift-All 1998 Catalog.



Floating Hose System Van VA2151 (Van 2 of 4)

VAN, FLOATING HOSE SYSTEM (VAN 2 of 4)

ESSM NUMBER VA2151

DESCRIPTION

The Floating Hose System Van VA2151 is a 20-foot van used for the storage and shipping of the Floating Hose System mooring components. Van #2 contains eight 62" x 36" x 41" wire mesh storage baskets that contain anchors, anchor lines, anchor chains, anchor marker buoys and anchor marker lights.

SPECIFICATIONS

Manufacturer Commercial

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length	20 ft, 0 in.
Width	8 ft, 0 in.
Height	8 ft, 0 in.
Cube	280 cu ft
Weight	14,620 lb

REFERENCES



Floating Hose System Van VA2152 (Van 3 of 4)

VAN, FLOATING HOSE SYSTEM (VAN 3 of 4)

ESSM NUMBER VA2152

DESCRIPTION

The Floating Hose System Van VA2152 is a 20-foot van used for the storage and shipping of the Floating Hose System and ancillary equipment. Van #3 contains three Floating Hose Reels RL0031 with ten sections of 6" x 100' Layflat Floating Hose HS0822 per reel, and eight wire storage baskets that contain anchors, anchor line, anchor chains, anchor marker buoys, and anchor marker lights.

SPECIFICATIONS

Manufacturer Commercial

PHYSICAL CHARACTERISTICS

Operating/Shipping

20 ft, 0 in.
8 ft, 0 in.
8 ft, 0 in.
280 cu ft
25,400 lb

REFERENCES



Floating Hose Reel RL0031 (with hose)

REEL, FLOATING HOSE

ESSM NUMBER RL0031

DESCRIPTION

The Floating Hose Reel RL0031 is skid-mounted and hydraulically powered. The Floating Hose Reel is used to reel up floating hose and can store up to ten 6" x 100' sections of floating hose. The floating hose reel is powered by a Mod 8 Hydraulic Power Unit (PU0200B), which is not a part of this system and must be obtained from a separate source.

SPECIFICATIONS

Manufacturer Cavotec Model HC3

PHYSICAL CHARACTERISTICS

Operating/Shipping

 Length
 7 ft, 5 in.

 Width
 6 ft, 4 in.

 Height
 6 ft, 7 in.

 Cube
 309 cu ft

Weight 6410 lb (with 10 sections of floating hose)

REFERENCES



Nitrol Layflat Hose HS0822

HOSE, 6" x 100', FLOATING, LAYFLAT, NITROL SP

ESSM NUMBER HS0822

DESCRIPTION

The Nitrol SP Floating Hose HS0822 is a petroleum-compatible hose used to transfer oil from a casualty vessel to receiving tankers or barges when it is not possible to moor lightering vessels alongside.

SPECIFICATIONS

Manufacturer Hydrasearch Hose MIL-H-22240 F

Part number HOS-22240-6B-XXXL

Type B

Dimensions:

Inside diameter 6.00" 7.01" Outside diameter Proof pressure 300 psi Min. burst pressure 600 psi Min. tensile strength 16,000 lb Weight per foot 4.40 lb Size 6" Rubber Nitrile

Couplings, aluminum MIL-C-24356

PHYSICAL CHARACTERISTICS

\sim	$\nu \sim 1$	ati	

Length 100 ft, 0 in.
Diameter 7.01 in.
Weight 440 lb
Cube 35 cu ft

REFERENCES



Floating Hose System Van VA2153 (Van 4 of 4)

VAN, FLOATING HOSE SYSTEM (VAN 4 of 4)

ESSM NUMBER VA2153

DESCRIPTION

The Floating Hose System Van VA2153 is a 20-foot van used for the storage and shipping of the Floating Hose System and ancillary equipment. Van #4 contains a 300-Cfm Hydraulic Air Compressor AC0700, two Floating Hose Reels RL0031, with ten sections of 6" x 100' Layflat Floating Hose HS0822 per reel, and a tool box.

SPECIFICATIONS

Manufacturer Commercial

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length	20 ft, 0 in.
Width	8 ft, 0 in.
Height	8 ft, 0 in.
Cube	280 cu ft
Weight	20,900 lb

REFERENCES



300-Cfm Hydraulic Air Compressor AC0700

AIR COMPRESSOR, 300 CFM, @ 200 PSI, HYDRAULIC

ESSM NUMBER AC0700

DESCRIPTION

The 300-Cfm Hydraulic Air Compressor AC0700 is a rotary screw-type air compressor driven by a hydraulic motor. The air compressor is rated at 300 cfm @ 200 psi discharge pressure. The hydraulic motor and compressor assembly is skid-mounted and surrounded by a steel frame. The base plate for the air compressor contains forklift pockets to facilitate handling.

300-Cfm Hydraulic Air Compressor AC0700 is designed to be operated with a Mod 8 Hydraulic Power Unit PW0200B, which must be obtained from a separate source.

SPECIFICATIONS

Air Compressor Assembly

Hydraulic Motor

Manufacturer	Ingersoll-Rand	Manufacturer	Mannesmann Rexroth
Model	VHP300CM	Model	AA2FM
Type	Rotary screw	Horsepower (min.)	108
No. of rotors	2	Speed (rpm)	2750
Rated delivery	300 cfm		
Rated pressure	200 psi		
Operating pressure range	77 to 200 psig		
Discharge air temperature	185° to 248° F		

PHYSICAL CHARACTERISTICS

Operati	ing/S	Shipp	ing
			_

Length	4 ft, 8 in.
Width	3 ft, 10 in.
Height	6 ft, 10 in.
Cube	122 cu ft
Weight	1850 lb

REFERENCES

1. Operating, Maintenance, and Parts Manual, Ingersoll-Rand, Model VHP300CM.



10 'x 6' x 12" Machinery Containment Pool CP3010

CONTAINMENT POOL, MACHINERY, 10' X 6' X 12", COOLEY URETHANE

ESSM NUMBER CP3010

DESCRIPTION

The 10 'x 6' x 12" Machinery Containment Pool CP3010 is a urethane berm. It is used to provide a means of catching and containing any oil, fuel, or contaminants leaking or spilled from the component it is supporting.

SPECIFICATIONS

Manufacturer Basic Concepts
Fabric material Cooley Urethane

PHYSICAL CHARACTERISTICS

<u>Operating</u>	Shipping
10 ft, 0 in.	1 ft, 8 in.
6 ft, 0 in.	1 ft, 8 in.
1 ft, 0 in.	6 in.
60 cu ft	1.5 cu ft
56 lb	34 lb
	10 ft, 0 in. 6 ft, 0 in. 1 ft, 0 in. 60 cu ft

REFERENCES



Floating Hose Reel RL0031 (with hose)

REEL, FLOATING HOSE

ESSM NUMBER RL0031

DESCRIPTION

The Floating Hose Reel RL0031 is skid-mounted and hydraulically powered. It is used to reel up floating hose and can store up to ten 6" x 100' sections. The floating hose reel is powered by a Mod 8 Hydraulic Power Unit PU0200B, which is not a part of this system and must be obtained from a separate source.

SPECIFICATIONS

Manufacturer Cavotec Model HC3

PHYSICAL CHARACTERISTICS

Operating/Shipping

 Length
 7 ft, 5 in.

 Width
 6 ft, 4 in.

 Height
 6 ft, 7 in.

 Cube
 309 cu ft

Weight 6410 lb (with 10 sections of floating hose)

REFERENCES



Nitrol Layflat Hose HS0822

HOSE, 6" x 100', FLOATING, LAYFLAT, NITROL SP

ESSM NUMBER HS0822

DESCRIPTION

The Nitrol SP Floating Hose HS0822 is a petroleum-compatible hose used to transfer oil from a casualty vessel to receiving tankers or barges when it is not possible to moor lightering vessels alongside.

SPECIFICATIONS

Manufacturer Hydrasearch Hose MIL-H-22240 F

Part number HOS-22240-6B-XXXL

Type B

Dimensions:

Inside diameter 6.00" 7.01" Outside diameter Proof pressure 300 psi Min. burst pressure 600 psi Min. tensile strength 16,000 lb Weight per foot 4.40 lb Size 6" Rubber Nitrile

Couplings, aluminum MIL-C-24356

PHYSICAL CHARACTERISTICS

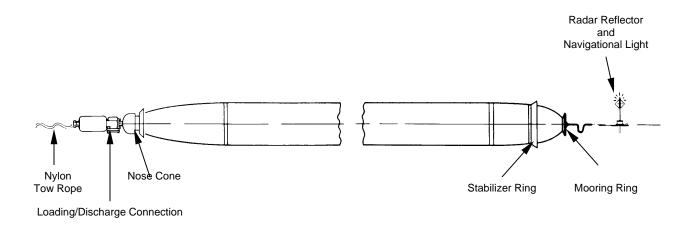
\sim	$\nu \sim 1$	atir	16

Length 100 ft, 0 in.
Diameter 7.01 in.
Weight 440 lb
Cube 35 cu ft

REFERENCES

Downloaded from http://www.everyspec.com

136K-GALLON OIL STORAGE BLADDER P14100





136K-Gallon Oil Storage Bladder P14100

OIL STORAGE BLADDER, 136K-GALLON

SYSTEM NUMBER P14100

SYSTEM DESCRIPTION

The Oil Storage Bladder System P14100 consists of a 136,000-gallon capacity towable rubber storage bladder, a bladder repair kit, an electric blower, a marker buoy, and ancillaries to connect and operate the system. The bladder is designed to carry petroleum products and other liquids that are lighter in weight than water. At the spill site, the bladder can be used to hold oil discharged directly from the smaller 26,000-gallon and 50,000-gallon oil recovery bladders used with the Rapid Deployment Skimmer System (RDSS).

SYSTEM COMPONENTS

<u>Item</u>	ESSM Number	<u>Qty</u>
1. Blower, Electric, Portable	BL0403	1
2. Buoy, Marker, Dracone	BU0023	1
3. Bladder, Oil Storage, 136k-gallon, type L, rubber	OB0800	1
4. Repair Kit, Bladder	OB0801	1



Portable Electric Blower BL0403

BLOWER, ELECTRIC, PORTABLE

ESSM NUMBER BL0403

DESCRIPTION

The Portable Electric Blower BL0403 consists of a 120-volt, 60-cycle motor and squirrel cage type blower. The blower is used to inflate the empty Dracone for entry during inspection and repair. This blower will inflate an "L" type barge in approximately 60 minutes. A collapsible polyester duct or spiral tube duct can be attached to the blower outlet for normal pressure operations.

SPECIFICATIONS

Manufacturer	Homelite
Model	200 EB-1
Voltage	120/240
Cycles	60
Phase	Single

PHYSICAL CHARACTERISTICS

Length	2 ft, 0 in.
Width	1 ft, 4 in.
Height	1 ft, 5 in.
Cube	4 cu ft
Weight	66 lb

REFERENCES



Dracone Marker Buoy BU0023

BUOY, MARKER, DRACONE

ESSM NUMBER BU0023

DESCRIPTION

The Dracone Marker Buoy BU0023 consists of a 40" diameter styrofoam base for flotation. Extending 22" above the base is a 12" diameter column, which houses a 6-volt battery and a steady-burn white light with lens. The light's on/off function is controlled automatically by a photocell. The Marker Buoy is to be exhibited at or near the aftermost part of the Dracone being towed or moored.

SPECIFICATIONS

Manufacturer Curd Enterprises

PHYSICAL CHARACTERISTICS

Height 4 ft, 2 in.
Diameter 3 ft, 4 in.
Cube 47.5 cu ft
Weight 92 lb

REFERENCES



Oil Storage Bladder OB0800

BLADDER, OIL STORAGE, 136K-GALLON, TYPE L

ESSM NUMBER OB0800

DESCRIPTION

The Oil Storage Bladder OB0800 is a flexible tube designed to carry petroleum products and other liquids that are lighter in weight than water. The storage bladder skin is made of nylon cord and a woven nylon fabric with weatherproof and abrasive-resistant synthetic rubber. The bladder is towed behind a skimming vessel using a 6-inch tow line. A 4-inch or 6-inch loading and discharge hose is attached to the tow line for filling and discharging skimmed oil to and from the bladder. The bladder is shipped on a pallet that includes a storage area for the accompanying tool set and ancillary equipment.

SPECIFICATIONS

Manufacturer Dunlop General Rubber Model Dracone barge, Type L

Shell material:

Outer proofing

Skin

Neoprene

Nylon cord and woven nylon fabric

Nitrile rubber for petroleum products

Buoyancy system

Nitrile rubber for petroleum products
Two internal inflatable tubes

Towing hose bore 4 in. and 6 in. Horsepower absorbed by

barge at various speeds 4 knots - 32 (80) 6 knots - 106 (265) 8 knots - 254 (635)

(Figures in parentheses above are recommended reserve horsepower required in towing vessel,

assuming a 40% efficiency.) Drag (in pounds) fully

loaded in sea water 4 knots - 2620 6 knots - 5750 8 knots - 10,340

Nose strength 30 tons
Formula for equivalent drag hp (Drag lbs x speed fps)/550

Oil capacity
In-shore towing
Open-sea towing
100% - 136,000 gal (3238 bbl)
85% - 116,450 gal (2773 bbl)

BLADDER, OIL STORAGE, 136K-GALLON, TYPE L (CONTD)

ESSM NUMBER OB0800

PHYSICAL CHARACTERISTICS

	Shipping	<u>Operating</u>	
Length Width	20 ft, 0 in. 8 ft, 0 in.	Length Diameter	221 ft, 0 in. 10 ft, 9 in.
Height Cube Weight (shipping rack w/ancillary)	8 ft, 0 in. 1280 cu ft 16,330 lb	Empty weight	8930 lb

REFERENCES

1. The Dracone Barge Handling, Operating, and Maintenance Manual; William Wood and Associates, New Orleans, LA.

Downloaded from http://www.everyspec.com



Bladder Repair Kit OB0801

REPAIR KIT, BLADDER

ESSM NUMBER OB0801

DESCRIPTION

The Repair Kit OB0801 consists of various tools, a patching kit with patching procedures, a white marker light, two 6-volt batteries and bulbs, MSDS sheets, and a laminated inventory. The Repair Kit is designed to maintain the oil storage bladder during an operational deployment.

SPECIFICATIONS

Manufacturer ESSM Facility

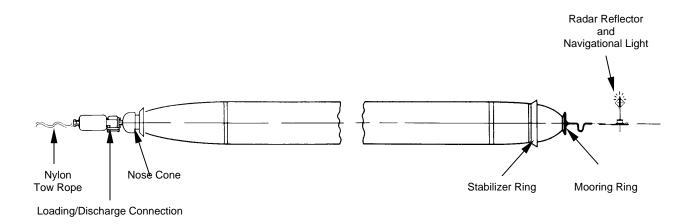
PHYSICAL CHARACTERISTICS

Length 1 ft, 8 in. Width 10 in. Height 1 ft, 1 in. Cube 2 cu ft Weight 34 lb

REFERENCES

Downloaded from http://www.everyspec.com

290K-GALLON OIL STORAGE BLADDER P14200





290k-Gallon Oil Storage Bladder P14200

OIL STORAGE BLADDER, 290K-GALLON

SYSTEM NUMBER P14200

SYSTEM DESCRIPTION

The Oil Storage Bladder System P14200 consists of a 290,000-gallon capacity towable rubber storage bladder, a bladder repair kit, an electric blower, a marker buoy, and ancillaries to connect and operate the system. The bladder is designed to carry petroleum products and other liquids that are lighter in weight than water. At the spill site, the bladder can be used to hold oil discharged directly from the smaller 26,000- and 50,000-gallon oil recovery bladders used with the Rapid Deployment Skimmer System (RDSS).

SYSTEM COMPONENTS

<u>Item</u>	ESSM Number	<u>Qty</u>
1. Blower, Electric, Portable	BL0403	1
2. Buoy, Marker, Dracone	BU0023	1
3. Repair Kit, Bladder	OB0801	1
4. Bladder, Oil Storage, 290k-Gallon, Type "O", Rubber	OB0830	1



Portable Electric Blower BL0403

BLOWER, ELECTRIC, PORTABLE

ESSM NUMBER BL0403

DESCRIPTION

The Portable Electric Blower BL0403 consists of a 120-volt, 60-cycle motor and squirrel cage-type blower. The blower is used to inflate the empty Dracone to permit entry during inspection and repair. This blower will inflate an "L" type barge in approximately 60 minutes. A collapsible polyester duct or spiral tube duct can be attached to the blower outlet for normal pressure operations.

SPECIFICATIONS

Manufacturer	Homelite
Model	200 EB-1
Voltage	120/240
Cycles	60
Phase	Single

PHYSICAL CHARACTERISTICS

Length	2 ft, 0 in.
Width	1 ft, 4 in.
Height	1 ft, 5 in.
Cube	4 cu ft
Weight	66 lb

REFERENCES



Dracone Marker Buoy BU0023

BUOY, MARKER, DRACONE

ESSM NUMBER BU0023

DESCRIPTION

The Dracone Marker Buoy BU0023 consists of a 40-inch diameter styrofoam base for flotation. Extending 22 inches above the base is a 12-inch diameter column, which houses a 6-volt battery and a steady-burn white light with lens. The light's on/off function is controlled automatically by a photocell. The Marker Buoy is to be exhibited at or near the aftermost part of the Dracone being towed or moored.

SPECIFICATIONS

Manufacturer Curd Enterprises

PHYSICAL CHARACTERISTICS

Height 4 ft, 2 in.
Diameter 3 ft, 4 in.
Cube 47.5 cu ft
Weight 92 lb

REFERENCES



Bladder Repair Kit OB0801

REPAIR KIT, BLADDER

ESSM NUMBER OB0801

DESCRIPTION

The Bladder Repair Kit OB0801 consists of various tools, a patching kit with patching procedures, a white marker light, two 6-volt batteries and bulbs, MSDSs, and a laminated inventory. The Repair Kit is designed to maintain the oil storage bladder during an operational deployment.

SPECIFICATIONS

Manufacturer ESSM Facility

PHYSICAL CHARACTERISTICS

Length 1 ft, 8 in. Width 10 in. Height 1 ft, 1 in. Cube 2 cu ft Weight 34 lb

REFERENCES



Oil Storage Bladder OB0830

BLADDER, OIL STORAGE, 290K-GALLON, TYPE O

ESSM NUMBER OB0830

DESCRIPTION

The Oil Storage Bladder OB0830 is a flexible tube designed to carry petroleum products and other liquids that are lighter in weight than water. The storage bladder skin is made of nylon cord and a woven nylon fabric with weatherproof and abrasive-resistant synthetic rubber. The bladder is towed behind a skimming vessel by a 6-inch towline. A 4-inch or 6-inch loading and discharge hose is attached to the towline for filling and discharging skimmed oil to and from the bladder. The bladder is shipped on an aluminum shipping pallet.

SPECIFICATIONS

Manufacturer **Dunlop General**

Dracone barge, Type O Model

Shell material

Shinning

Outer proofing Neoprene

Nylon cord and woven nylon fabric Skin Nitrile rubber for petroleum products Inner proofing

Buoyancy system Two internal inflatable tubes

Towing hose bore 4 in. and 6 in.

Max towing speed 6 knots

Horsepower absorbed by

barge at various speeds: 52 hp @ 4 knots 168 hp @ 6 knots

Nose strength 30-ton pull

Formula for equivalent drag

horsepower (Drag lb x speed fps)/550

PHYSICAL CHARACTERISTICS

Simpping		<u>Operating</u>	
Length	24 ft, 8 in.	Length	300 ft, 0 in.
Width	8 ft, 0 in.	Diameter	13 ft, 10 in.
Height	7 ft, 3 in.	Volume	45,352 cu ft
Cube	1402 cu ft	Weight (empty)	14,300 lb
Weight	23,650 lb		

Operating

BLADDER, OIL STORAGE, 290K-GALLON, TYPE O (CONTD) ESSM NUMBER OB0830

REFERENCES

1. The Dracone Barge Operating Manual, Issue 3.

MATERIAL TRANSFER SYSTEM

SYSTEM NUMBER P11100

SYSTEM DESCRIPTION

The Material Transfer System P11100 is comprised of equipment required to facilitate transfer of the POL offloading system and other salvage/spill response equipment onto a casualty vessel. The exact components of the system have not been determined, but will consist of motion compensating equipment, a small winch, a portable A-frame, transfer crafts, storage/shipping containers, and the necessary ancillary equipment to support the system while operating in the field.

SYSTEM UNDER DEVELOPMENT

Downloaded from http://www.everyspec.com

OIL BLADDER TRANSFER SYSTEM P20300



Oil Bladder Transfer System Van VA2290



Hydraulic Power Unit PW0200B



Portable Marine Crane CR0010



Vertical Axis Hydraulic Capstan CP0011



6.2-kW Diesel Generator GE0430



19-Cfm Air Compressor AC0501



Heavy Oil Transfer Pump PU0851



4-Inch Submersible Pump PU0305



Hydraulic Pressure Washer WA0700



Oil Bladder Sys Tool Box TL0035



Spare Parts Kit (for PW0206) PW0200



16' Polyester Roundsling SL0012

P20300 System Overview

OIL BLADDER TRANSFER SYSTEM

SYSTEM NUMBER P20300

SYSTEM DESCRIPTION

Transfer of fluids between oil bladders on large operations is necessary to keep systems operating by allowing the smaller 23.1k-, 26k- and 50k-gallon bladders to be offloaded into larger bladders. Ideally, fluid would be discharged into barges. However, these are not always readily available, so transfer to other larger bladders must be operationally available. The Oil Bladder Transfer System provides this capability. Specialized equipment allows for in-water connection of bladders and fluid transfer.

SYSTEM COMPONENTS

<u>Item</u>	ESSM Number	<u>Qty</u>
1. Van, Oil Bladder Transfer System	VA2290	1
Air Compressor, 19 cfm @ 125 psi, Diesel	AC0501	1
Capstan, Hydraulic, Vertical Axis	CP0011	1
Crane, Portable Marine, Cap. 1210 lb @ 13', 11"	CR0010	1
Generator, 6.2-Kw, Diesel	GE0430	1
Pump, Submersible, 4" Hydraulic, Centrifugal Screw	PU0305	1
Pump, Heavy Oil Transfer, DOP-250	PU0851	1
Power Unit, Hyd, Mod 8, Diesel, 71 gpm @ 4000 psi	PW0200B	1
Spare Parts Kit for Mod 8 HPU, PW0200	PW0206	1
Roundsling, Polyester, 16'	SL0012	4
Tool Box, Oil Bladder Transfer System	TL0024	1
Washer, Pressure, Hydraulic, Kew, Model-4403k0	WA0700	1



Oil Bladder Transfer System Van VA2290

VAN, OIL BLADDER TRANSFER SYSTEM

ESSM NUMBER VA2290

DESCRIPTION

The Oil Bladder Transfer System Van VA2290 is used as a storage and shipping container for the components of the Oil Bladder Transfer System. The system includes a Mod 8 Hydraulic Power Unit, a Portable Marine Crane, a Hydraulic Capstan, a 6.2-kW Diesel Generator, a 19-Scfm Air Compressor, a DOP-250 Heavy Oil Transfer Pump, a 4" Hydraulic Submersible Pump, a Hydraulic Pressure Washer, a Tool Box, four 16' Polyester Roundslings, and the necessary ancillary equipment to maintain and operate the P20300 Oil Bladder Transfer System.

SPECIFICATIONS

Manufacturer ESSM Facility

PHYSICAL CHARACTERISTICS

Operating/Shipping

١.
t

REFERENCES

None



19-Cfm Air Compressor AC0501

AIR COMPRESSOR, 19 CFM @ 125 PSI, DIESEL

ESSM NUMBER AC0501

DESCRIPTION

The 19-Cfm Air Compressor AC0501 is a two-stage, high-volume unit that provides 19 cfm at 125 psig. The air compressor is powered by a 1-cylinder, 6.2-hp diesel engine which has its own fuel supply tank. The engine is designed to operate at a continuous speed of 3600 rpm for long periods of time. The engine and compressor are enclosed in a protective frame that is mounted on top of a 30-gallon air storage tank with wheels, which allows for easy maneuverability.

SPECIFICATIONS

Air Compressor Assembly

Manufacturer	Emglo Products
Model	GC8YDA-17F

A : C	T •
Air Compressor	Engine
ATT COMDICSSOL	LHISHIE
im compressor	Empine.

Manufacturer	Emglo Products	Manufacturer	Yanmar
Model	JU	Model	L60
Capacity	19 cfm	Cylinders	1
Rated operating pressure	125 psi	Bore	2.95 in.
Cylinders	2	Stroke	2.44 in.
Stages	2	Displacement	16.7 cu in.
Rpm	875	Rpm (continuous)	3600
Storage tank	30 gallons	Compression ratio	20:1
Operating pressure range	100 to 120 psig	Starting	Elec./recoil
		Battery	12 V dc
		Fuel	Diesel
		Fuel source	Integral tank
		Fuel consumption	0.5 gph

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length	3 ft, 6 in.
Width	2 ft, 1 in.
Height	3 ft, 0 in.
Cube	22 cu ft
Weight	398 lb

AIR COMPRESSOR, 19 CFM @ 125 PSI, DIESEL

ESSM NUMBER AC0501

REFERENCES

- Yanmar Diesel Engine Operation Manual for L-Series Engine.
 Emglo Parts Price List J, 288.

Downloaded from http://www.everyspec.com



Vertical Axis Hydraulic Capstan CP0011

CAPSTAN, HYDRAULIC, VERTICAL AXIS

ESSM NUMBER CP0011

DESCRIPTION

The Vertical Axis Hydraulic Capstan CP0011 is a portable unit that can be easily handled, installed, relocated, and connected to an appropriate hydraulic power source to meet various operational requirements. The capstan comes with two 4-foot hoses and a pedal-operated, 4-way, 3-position control valve.

SPECIFICATIONS

Manufacturer Down East Machine and Engineering (DEME)

Model DEME PVC-10 Hydraulic flow 15 gpm @ 2500 psi

Line capacity 37 fpm @ 1200 pounds line pull

Capstan:

Type Vertical axis

Diameter 12" Height 9 3/16"

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length 1 ft, 2 in.
Width 1 ft, 2 in.
Height 2 ft, 0 in.
Cube 3 cu ft
Weight 120 lb

REFERENCES

1. DEME PVC-10 Portable Vertical Capstan Technical Manual.



Portable Marine Crane CR0010

CRANE, PORTABLE MARINE, CAPACITY 1210 LB @ 13', 11"

ESSM NUMBER CR0010

DESCRIPTION

The Portable Marine Crane CR0010 can be extended hydraulically from a minimum of 4 feet, 3 inches to a maximum of 13 feet, 11 inches. The crane is operated by a separate hydraulic power unit and is controlled by a four-section hydraulic control valve. The crane consists of a base, a mast, an inner boom, an outer boom, a winch, and hydraulic components necessary for operation.

SPECIFICATIONS

Crane		Winch	
Manufacturer	Morgan Marine	Manufacturer	Pullmaster Winch
Model	27.3	Model	PL2
Boom length:		Cable drum size:	
Minimum	4 ft, 3 in.	Barrel diameter	6.13 in.
Maximum	13 ft, 11 in.	Barrel length	5.25 in.
Capacity with boom at:		Cable storage wire size:	
4 ft, 3 in.	4180 lb	1/16 in.	318 ft
7 ft, 6 in.	2530 lb	1/8 in.	745 ft
10 ft, 9 in.	1760 lb	5/16 in.	122 ft
13 ft, 11 in.	1210 lb	3/8 in.	84 ft
		Operating pressure:	
		Maximum	2200 psi
		Minimum	700 psi
		Operating volume:	
		Gpm	7.7
		Psi	2.5
		Line pull @ max. pressure:	
		Bare drum	2200 lb
		Full drum	1663 lb
		Line speed @ max. volume:	
		Bare drum	83 fpm
		Full drum	108 fpm
		Maximum pressure at:	
		Motor return port	65 psi
		Brake safety valve	100 psi

CRANE, PORTABLE MARINE, CAPACITY 1210 LB @ 13', 11"

ESSM NUMBER CR0010

PHYSICAL CHARACTERISTICS

Length	6 ft, 7 in.
Width	2 ft, 4 in.
Height	5 ft, 0 in.
Cube	85 cu ft
Weight	952 lb

REFERENCES

1. Morgan Model 27 Marine Crane Manual.

Downloaded from http://www.everyspec.com



6.2-kW Diesel Generator GE0430

GENERATOR, 6.2-KW, DIESEL

ESSM NUMBER GE0430

DESCRIPTION

The 6.2-kW, 120/240-V ac, 1-phase, Diesel Generator GE0430 is a self-contained unit with generator and engine enclosed in a rugged steel box. The 120/240-volt, single phase, ac generator is driven by a single cylinder, 10-hp, four-cycle, air-cooled diesel engine. The generator is protected by two 120-volt thermomagnetic resettable circuit breakers. The control panel is equipped with four 120-volt, 20-amp ground-fault interrupter (GFI) receptacles, one 120-volt, 30-amp twist-lock receptacle, and one 120/240-volt, 30-amp twist-lock receptacle.

SPECIFICATIONS

Manufacturer	NorthStar
Model	6500 DGP

<u>Generator</u>		<u>Engine</u>	
Manufacturer Model	Generac 165930G	Manufacturer Model	Yanmar L100AE-DEG
Maximum output Continuous output	6500 watts 6120 watts	No. of cylinders Bore	1 3.39 in.
Voltage	120/240 V ac	Stroke	2.76 in.
Frequency	60 Hz @ 3600 rpm	Displacement	24.8 cu in.
Phase	1	Horsepower	10 @ 3600 rpm
		Starting	Electric/recoil
		Fuel	Diesel
		Fuel source	6.5-gallon integral tank
		Fuel consumption	0.5 gph

PHYSICAL CHARACTERISTICS

	Operating/Shipping
Length	3 ft, 0 in.
Width	4 ft, 0 in.
Height	2 ft, 5 in.
Cube	20 cu ft
Weight	456 lb

GENERATOR, 6.2-KW, DIESEL,

ESSM NUMBER GE0430

REFERENCES

- 1. Operation Manual for Diesel Engine L A.
- 2. Yanmar Service Manual for Models L A.
- 3. Yanmar Warranty Handbook.
- 4. NorthStar 6500 DPG Owner's Manual.

Downloaded from http://www.everyspec.com



Centrifugal Screw 4" Hydraulic Submersible Pump PU0305

PUMP, SUBMERSIBLE, 4-INCH HYDRAULIC, CENTRIFUGAL SCREW

ESSM NUMBER PU0305

DESCRIPTION

The 4-Inch Hydraulic Submersible Pump PU0305 is capable of pumping light oils containing solids up to 2 inches in diameter. The pump is rated for continuous output of up to 1200 gpm at 25 psi discharge pressure. Quick disconnect fittings are utilized to allow for rapid hookup of the discharge hose and the supply and return hydraulic hoses. The 4-Inch Hydraulic Submersible Pump is ideal for moving moderate viscosity oils up to 10,000 cSt.

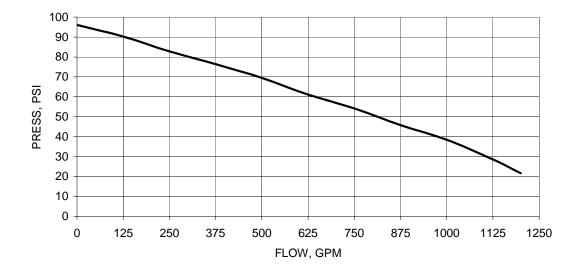
SPECIFICATIONS

Pump Assembly	Motor

Manufacturer	Hydra-Tech	Manufacturer	Rex Roth
Model	S4SCR	Model	A2FM16
Type	Submersible	Operating pressure (max.)	2500 psi
Discharge	4"	Flow rate (max.)	25 gpm
	1000 0.05 :		

Output (maximum) 1200 gpm @ 25 psi

PERFORMANCE CURVE



PUMP, SUBMERSIBLE, 4-INCH, HYDRAULIC, CENTRIFUGAL SCREW

ESSM NUMBER PU0305

PHYSICAL CHARACTERISTICS

Operating/Shipping

Height 1 ft, 9 in.
Diameter 1 ft, 0 in.
Cube 2 cu ft
Weight 62 lb

REFERENCES

1. Operation and Maintenance Instructions, with Illustrated Parts Breakdown, Hydra-Tech S4SCR Submersible Pump.

Downloaded from http://www.everyspec.com



Heavy Oil Transfer Pump PU0851

PUMP, HEAVY OIL, TRANSFER (DOP-250)

ESSM NUMBER PU0851

DESCRIPTION

The Heavy Oil Transfer Pump PU0851 is a modified Archimedes' screw-type pump that is capable of moving highly viscous products at high discharge pressures. The heavy oil transfer pump is designed to work well at slow operating speeds and can gently handle any medium without mixing or emulsifying the medium. The pump is driven by a hydraulic power unit with the necessary ancillary equipment.

SPECIFICATIONS

ManufacturerDesmiModelDOP-250Min. manhole diameter0.6 m (24")Pump outlet6" male camlock

Max. flow rate 42 gpm

Max. pressure 10 bar/150 psig

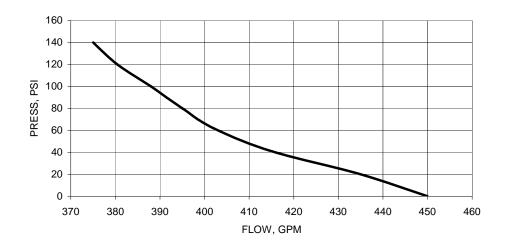
Max. capacity 100 m (cubed)/h/440 gpm

Hydraulic system pump motor Danfoss hydraulic motor, type OMTS-200

Hydraulic connections:

Pressure line 1" Aeroquip coupling, male, 5602-16-16S
Return line 1" Aeroquip coupling, female, 5601-16-16S
Drain line 3/8" Aeroquip coupling, female, 5601-6-6S

PERFORMANCE CURVE



PUMP, HEAVY OIL, TRANSFER (DOP-250)

ESSM NUMBER PU0851

PHYSICAL CHARACTERISTICS

\sim	. •	/01		•	
Opera	tıno	/Shi	m	nıno	١
Opera			ı		,

Length	1 ft, 10 in.
Width	1 ft, 2 in.
Height	1 ft, 7 in.
Cube	4 cu ft
Weight	172 lb

REFERENCES

1. Operator's Manual for Desmi DOP-250.

Downloaded from http://www.everyspec.com



Mod 8 Hydraulic Power Unit PW0200B

POWER UNIT, HYDRAULIC, MOD 8 DIESEL, 71 GPM @ 4000 PSI

ESSM NUMBER PW0200B

DESCRIPTION

The Mod 8 Diesel Hydraulic Power Unit PW0200B is a skid-mounted assembly that provides hydraulic fluid flow of up to 71 gpm at 4000 psi from a variable displacement, pressure compensated pump. The flow rate can be mechanically varied at the control panel. Maximum system pressure is adjustable at the pump.

SPECIFICIATIONS

Hydraulic Power Unit

Manufacturer Highstar Model 82647

<u>Engine</u> <u>Pump</u>

Detroit Diesel Manufacturer Manufacturer Sundstrand Model Series 40, 8.7 LT Model Series 90 Type In-line Type Axial piston No. of cylinders 6, in-line configuration Max. displacement 6.10 cu. in./rev Combustion Hydraulic fluid 4-cycle Rando 46 Hydraulic Hydraulic reservoir capacity 70 gallons Starting

Horsepower 225 @ 2100 rpm Hydraulic fluid output 71 gpm @ 4000 psi

Fuel Diesel

Fuel source 120-gal. external tank

w/ pickup tube & hoses

Fuel consumption 11.8 gph

PHYSICAL CHARACTERISTICS

Operating/Shipping

 Length
 7 ft, 7 in.

 Width
 3 ft, 11 in.

 Height
 4 ft, 0 in.

 Cube
 122 cu ft

 Weight
 3850 lb

REFERENCES

1. Commercial Off-the-Shelf (COTS) Manual, Hydraulic Power Unit (HPU) Model 82647, PW0200.



Spare Parts Kit PW0206

SPARE PARTS KIT FOR HYDRAULIC POWER UNIT PW0200

ESSM NUMBER PW0206

DESCRIPTION

The Spare Parts Kit PW0206 contains the items necessary to support the operation and maintenance of one PW0200 Hydraulic Power Unit.

SPECIFICATIONS

The Spare Parts Kit contains the following:

<u>Item</u>	<u>Qty</u>
Container, spare parts kit, 24-gallon:	1
Filter, air	1
Filter, engine coolant	1
Filter, engine oil	1
Filter, fuel	1
Filter, engine fuel prefilter	1
Filter, hydraulic, high pressure	1
Filter, hydraulic, medium pressure	2
Filter, hydraulic, system return	2
Plug, bleeder	1
Repair kit, quick disconnect (71-3C16-SPK)	2
Repair kit, quick disconnect (71-3N16-SPK)	2
V-belt, engine auxiliaries	1
V-belt, engine starting system	1
Inventory, laminated	1

PHYSICAL CHARACTERISTICS

	Operating/Shipping	
Length	1 ft, 9 in.	
Width	1 ft, 4 in.	
Height	1 ft, 0 in.	
Cube	2.5 cu ft	
Weight	28 lb	

REFERENCES

None



16' Polyester Roundslings SL0012

ROUNDSLING, POLYESTER, 16'

ESSM NUMBER SL0012

DESCRIPTION

The 16' Polyester Roundsling SL0012 is an endless synthetic sling made from a skein (continuous loop or hank) of polyester yarn covered by a double-wall tubular jacket. Each sling is fitted with a screw pin shackle. Four 16' Polyester Roundslings are used for lifting the van to which they are assigned.

SPECIFICATIONS

Sling		<u>Shackle</u>	
Manufacturer	Lift-All	Manufacturer	Crosby
Model	EN240	Part number	G-209-A
Vertical SWL	21,200 lb	Size	1 in.
Choker SWL	17,000 lb	Working load limit	25,000 lb
Basket SWL	42,400 lb		
Overall length	16 ft, 0 in.		

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length (operating)	16 ft, 0 in.	
Cube (coiled for shipping)	4 cu ft	
Weight	18 lb	

REFERENCES

1. Lift-All 1998 Catalog.



Oil Bladder Transfer System Tool Box TL0024

TOOL BOX, OIL BLADDER TRANSFER SYSTEM

ESSM NUMBER TL0024

DESCRIPTION

The Oil Bladder Transfer System Tool Box TL0035 is a basic mechanic's tool set that contains both 3/8" drive metric and standard sockets and accessories, metric and standard combination wrench sets, both metric and standard hex bits, adjustable wrenches, pliers, hammers, Phillips and standard screwdrivers, and other miscellaneous tools. It contains the necessary tools to set up and perform basic repairs on the Oil Bladder Transfer system.

SPECIFICATIONS

Manufacturer ESSM Facility

PHYSICAL CHARACTERISTICS

Operating/Shipping

1 ft, 2 in.
1 ft, 2 in.
2 ft, 0 in.
3 cu ft
70 lb

REFERENCES

None



Hydraulic Pressure Washer WA0700

WASHER, PRESSURE, HYDRAULIC MODEL-4403K0

ESSM NUMBER WA0700

DESCRIPTION

The Hydraulic Pressure Washer WA0700 is a high-pressure, cold water cleaner that is used to clean oil and dirt from equipment by spraying high-pressure water on it. The pressure washer can use either fresh or salt water as a cleaning medium.

SPECIFICATIONS

Manufacturer	ALTO/Kew
Model	4403K0
Max. pump pressure	2610 psig

Water volume:

Maximum 20.5 gal.
Minimum 5.42 gal.
Max. inlet water temp. 150°F
Self-priming max. lift 16 ft

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length 2 ft, 2 in.
Width 1 ft, 1 in.
Height 1 ft, 10 in.
Cube 5 cu ft
Weight 84 lb

REFERENCES

1. Owner's Manual for Kew Hydraulic Pressure Washer Model 4403K0.

Downloaded from http://www.everyspec.com

DEBRIS HANDLING SYSTEM P20400



Debris Handling System P20400

DEBRIS HANDLING SYSTEM

SYSTEM NUMBER P20400

SYSTEM DESCRIPTION

The Debris Handling System P20400 consists of the Debris Handling System Van, a 3-piece modular 32' Rigid Hull Inflatable Boat (2 hull sections and a pilothouse), a marine mobile VHF radio, a marine mobile CB radio, a 2.5-kW gas generator, slings for lifting the boat and the van, and the necessary ancillary equipment to maintain and operate the Debris Handling System.

Debris handling is critical to continuous operation during major spill responses. The likelihood of encountering large amounts of debris is a function of location and type of casualty. It is normal to encounter debris in every case, and a ready supply of equipment designed to handle this problem is mandatory. The Debris Handling System with the 32' Rigid Hull Inflatable Boat is designed to pick up and store the debris onboard, and then transport it to a suitable location for proper disposal. Large amounts and pieces of debris must be removed so as to allow the skimming systems to properly do their job of collecting the spilled oil and disposing of it properly.

SYSTEM COMPONENTS

<u>Item</u>	ESSM Number	<u>Qty</u>
1. Van, Debris Handling System	VA2400	1
Generator, 2.5-kW, Gas	GE0425	1
Inverter, 1750 Watts, w/Remote Switch	IN0001	1
Motor, Outboard, 4-Stroke, 130-Hp	MT0130	2
Radio, CB, Marine Mobile	RA1709	1
Radio, VHF, Marine Mobile, Icom (58-Channel)	RA1831	1
Roundsling, Polyester, 14', 6"	SL0011 (Altn)	4*
Roundsling, Polyester, 16'	SL0012	4
Roundsling Bridle, Polyester, 4-Leg, 18', w/Lifting Hook	SL0399	1
Boat, 32' Rigid Hull Inflatable	WB0750	1

^{*}Alternate ESSM configurations are functionally equivalent and are not shown in the catalog.



Debris Handling System Van VA2400

VAN, DEBRIS HANDLING SYSTEM

ESSM NUMBER VA2400

DESCRIPTION

The Debris Handling System Van VA2400 is used as a storage and shipping container for the components of the Debris Handling System, which include a 32' Rigid Hull Inflatable Boat WB0750, two 4-Stroke, 130-Hp Outboard Motors MT0130, a 1750-Watt Inverter w/Remote Switch IN0001, a Marine Mobile CB Radio RA1709, a Marine Mobile Icom (58-Channel) VHF Radio RA1831, a 4-Leg Polyester Roundsling Bridle (18') SL0399, a 2.5-kW Gas Generator GE0425, and four 16' Polyester Roundslings SL0012.

SPECIFICATIONS

Manufacturer Commercial

PHYSICAL CHARACTERISTICS

ıg

Length	20 ft, 0 in.
Width	8 ft, 0 in.
Height	8 ft, 0 in.
Cube	1280 cu ft
Weight	11,640 lb

REFERENCES

1. Debris Handling System Van, NAVSEA Dwg. 7022750.



2.5-kW Gas Generator GE0425

GENERATOR, 2.5-KW, GAS

ESSM NUMBER GE0425

DESCRIPTION

The 2.5-kW Gas Generator GE0425 is a self-contained unit mounted on a base plate that is surrounded by a protective steel frame. The unit is driven by an air-cooled, four-cycle, single-cylinder gas engine. The generator can supply up to 2.5-kW single phase ac power at 120 volts. The 120-volt single phase electrical power is distributed via two 120-volt outlets, which are protected by a single overload breaker, located just below the two 120-volt receptacles.

SPECIFICATIONS

2.5-kW Generator	Assembly	<u>Engine</u>	
Manufacturer	Honda	Manufacturer	Honda
Model	EN2500	Model	GC160
Type	Air-cooled	No. cylinders	1
Capacity	2.5 kW	Rpm	3600
Frequency	60 Hz @ 3600 rpm	Starting system	Pull start
Voltage	120 V ac, single phase	Fuel	Gas
Amperes	19.2 amps @ 120 volts	Fuel source	2.91-gal. internal tank
Rated output	2300 kVA		
Max output	2500 kVA		

PHYSICAL CHARACTERISTICS

	Operating/Shipping
Length	1 ft, 9 in.
Width	1 ft, 5 in.
Height	1 ft, 5 in.
Volume	3.5 cu ft
Weight	72 lb

REFERENCES

1. Honda Owner's Manual for Generators EN2000/EN2500.



1750-Watt Inverter w/Remote Switch IN0001

INVERTER, 1750 WATTS, W/REMOTE SWITCH

ESSM NUMBER IN0001

DESCRIPTION

The 1750-Watt Inverter IN0001 is designed to convert dc power to ac. It is ideal for running virtually any electrical item that does not consume over 1750 watts of power or several smaller applications simultaneously. Inverters are used in place of generators, and are light, durable, and easy to install. The Portawattz 1750 has stud-type connectors for secure connection to deep-cycle batteries. The unit has a display panel for monitoring battery status, current, and voltage, and has three ac outlets.

SPECIFICATIONS

Manufacturer Xantrex

 $\begin{tabular}{ll} Model & Portawattz 1750 \\ Input voltage & 10 to 15 V dc \\ Output voltage & 115 V ac <math>\pm 5\%$ \end{tabular}

Output frequency 60 Hz

Maximum continuous power 1750 watts

Surge capability 3000 watts

Operating temperature 32° F to 104° F

PHYSICAL CHARACTERISTICS

Length 1 ft, 5 in.
Width 9 in.
Height 3 in.
Cube 1 cu ft
Weight 9 1/2 lb.

REFERENCES

1. Xantrex Owner's Guide for Portawattz 1750 Inverter.



4-Stroke 130-Hp Outboard Motor MT0130

MOTOR, OUTBOARD, 130-HP, 4-STROKE

ESSM NUMBER MT0130

DESCRIPTION

The 4-Stroke, 130-Hp Outboard Motor MT0130 is used to power the 32' Debris Handling Boat WB0750. The 4-stroke gasoline motor has an inline 4-cylinder arrangement with power trim and tilt positioning.

SPECIFICATIONS

Manufacturer Honda Model 130A Number of cylinders 4

Full throttle operating range 5000 to 6000 rpm

Bore/stroke 3.4"/3.8"
Piston displacement 135.5 cu. in.
Starter Electric, 12 V dc

Propeller 13 1/2" diameter x 15" pitch

Horsepower 130

PHYSICAL CHARACTERISTICS

Operating/Shipping

 Length
 2 ft, 9 in.

 Width
 1 ft, 10 in.

 Height
 5 ft, 9 in.

 Cube
 29 cu ft

 Weight
 505 lb

REFERENCES

- 1. Honda Marine BF115A/130A Shop Manual.
- 2. Honda Marine BF115A/130A Owner's Manual.



CB Marine Mobile Radio RA1709

RADIO, CB, MARINE MOBILE

ESSM NUMBER RA1709

DESCRIPTION

The Marine Mobile Citizens Band (CB) Radio RA1709 is designed for marine use. Features include the ability to receive four of the National Oceanic and Atmospheric Administration (NOAA) weather channels. The CB 40 + 4 radio has 44 channels; 40 CB and 4 weather channels. The 40 CB channels can be used for transmitting and receiving; whereas, the 4 weather channels are for receiving only.

SPECIFICATIONS

Manufacturer	Commer	ا د نده
Mianifiacifirer	Comme	СІАІ

Frequency range:

Citizens band 26.965 to 27.405 MHz
Weather band (receive only) 161.665 to 162.550 MHz

Channels total: 44
Citizens band 40
Weather band 4

Input voltage $13.8 \text{ V dc} \pm 20\%$ Temperature range $-20^{\circ}\text{C to} + 50^{\circ}\text{C}$

Transmitter (citizens band only)

RF output 4 W maximum

Receiver (CB):

Audio output at 10% distortion 5 W

Audio response 300 Hz to 3 kHz, 3 dB

Channel spacing 10 kHz Hum and noise at 100 kV 45 dB

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length	9 in.
Width	6 in.
Height	2 in.
Weight	3 lb
Cube	1 cu ft

REFERENCES

1. Owner's Manual, CB 40 + 4 H-Watt Citizens Band Marine Transceiver.



VHF Marine Mobile Radio RA1831

RADIO, VHF, MARINE MOBILE, ICOM (58-CHANNEL)

ESSM NUMBER RA1831

DESCRIPTION

The Icom VHF Marine Mobile Radio RA1831 is a marine VHF/FM transceiver with intercom features and a public address system in a moisture-resistant console. The radio requires a supply voltage of 13.8-volt dc negative ground and operates in the frequency range of 156-163 MHz. The radio has 58 programmed marine transmit/receiver channels and 10 weather channels.

The radio has the following advanced features: voltage source deviation indicator; 25W of high transmission output power; dual watch and a variety of scans; 20 user-programmed memory channels; momentary high power on Channels 13 and 67; single-tone, double high-tone, and double low-tone beeps; high sensitivity and strong intermodulation rejection; and a built-in lithium battery to retain the information programmed into the memory channels. The life of the lithium battery is approximately 5 years. The Icom radio models IC-M56, IC-M58, and IC- M402S are currently in use in the ESSM System. All three models have similar features and are functionally equivalent.

SPECIFICATIONS

Manufacturer Icom Model IC-M56 IC-M58

IC- M402S

Usable temperature range -20° to +60°C (-4 to +140°F) Power supply voltage 13.8 V dc negative ground

Channels:

Transmit 58
Weather 10

Receiver:

Frequency range 156 to 163 MHz Audio output power 4W with a 4-ohm load

Intermediate frequency 1st: 21.8 MHz; 2nd: 455 kHz

Transmitter:

Frequency range 156 to 157.5 MHz
Output power 25 W high, 1 W low

RADIO, VHF, MARINE MOBILE, ICOM (58 CHANNEL) (CONTD)

ESSM NUMBER RA1831

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length8 in.Width7 in.Height2 in.Cube1 cu ftWeight3 lb

REFERENCES

- 1.
- 2. Instruction Manual, Icom IC-M56.
- 3. Instruction Manual, Icom IC-M58.
- 4. Instruction Manual, Icom IC-M402S.

Downloaded from http://www.everyspec.com



16' Polyester Roundslings SL0012

ROUNDSLING, POLYESTER, 16'

ESSM NUMBER SL0012

DESCRIPTION

The 16' Polyester Roundsling SL0012 is an endless synthetic sling made from a skein (continuous loop or hank) of polyester yarn covered by a double-wall tubular jacket. Each sling is fitted with a screw pin shackle. Four 16' Polyester Roundslings are used for lifting the van to which they are assigned.

SPECIFICATIONS

a1.

<u>Shackle</u>	
Manufacturer	Crosby
Part number	G-209-A
Size	1 in.
Working load limit	25,000 lb
	Manufacturer Part number Size

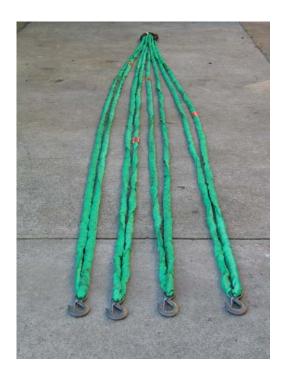
PHYSICAL CHARACTERISTICS

Operating/Shipping

Length (operating)	16 ft, 0 in.
Cube (coiled for shipping)	4 cu ft
Weight	18 lb

REFERENCES

1. Lift-All 1998 Catalog.



18' 4-Leg Polyester Roundsling Bridle SL0399

ROUNDSLING BRIDLE, POLYESTER, 4-LEG, 18', W/LIFTING HOOKS

ESSM NUMBER SL0399

DESCRIPTION

The 18', 4-Leg, Polyester Roundsling Bridle SL0399 is an assembly consisting of four endless synthetic slings made from a skein (continuous loop or hank) of polyester yarn covered by a double-wall tubular jacket. The four slings are connected at one end with a cloth-type D-ring; the opposite end of each leg has a safety hook permanently attached.

The 18', 4-Leg, Polyester Roundsling Bridle SL0399 is used for lifting the Debris Handling Boat.

SPECIFICATIONS

Sling	<u>Hook</u>
-------	-------------

ManufacturerLift-AllManufacturerCommercialModelQOS-EN60TypeSafetyAssembly SWL10,000 lbWorking load limit4,000 lbLength18 ft, 0 in.

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length (operating)

Cube (coiled for shipping)

Weight

18 ft, 0 in. (each leg)
8 cu ft
30 lb

REFERENCES

1. Lift-All 1998 Catalog.



Debris Handling Boat WB0750



Debris Handling Boat WB0750 w/Wheelhouse

BOAT, 32' RIGID HULL INFLATABLE

ESSM NUMBER WB0750

DESCRIPTION.

The 32' Rigid Hull Inflatable Boat WB0750 is a rugged hard-deck, inflatable hull, self-bailing workboat currently used for oil spill cleanup support. The diamond plate aluminum alloy deck provides a solid and secure working platform with a sturdy transom for mounting single or twin outboard motors. The self-bailing feature ensures a buoyant platform regardless of water taken over the deck. The boat's rugged inflatable pontoons act as fenders and provide more stability in rough water than standard monohull designs. The pontoons are constructed from Nitrile rubber for added durability in oil spill environments. The 32' Rigid Hull Inflatable Boat also comes with a wheelhouse.

The boat is designed to be taken apart and palletized for quick, easy transport by air or sea cargo to remote locations around the world. The aluminum deck is comprised of two sections, which nest inside one another for more compact shipping and storage. To protect the boat while in transit, the pontoons can be deflated, rolled up, and strapped inside the frame. The 32' Rigid Hull Inflatable Boat fits into a 20' shipping container.

SPECIFICATIONS

N. C. A	D
Manufacturer	Demaree

Model 32' River Freighter (Modified)

Designed working load 11,000 lb Max. buoyancy 26,000 lb

No. of air chambers 12

Max. power rating Twin 200-hp outboard motors (400-hp)

Operating

PHYSICAL CHARACTERISTICS

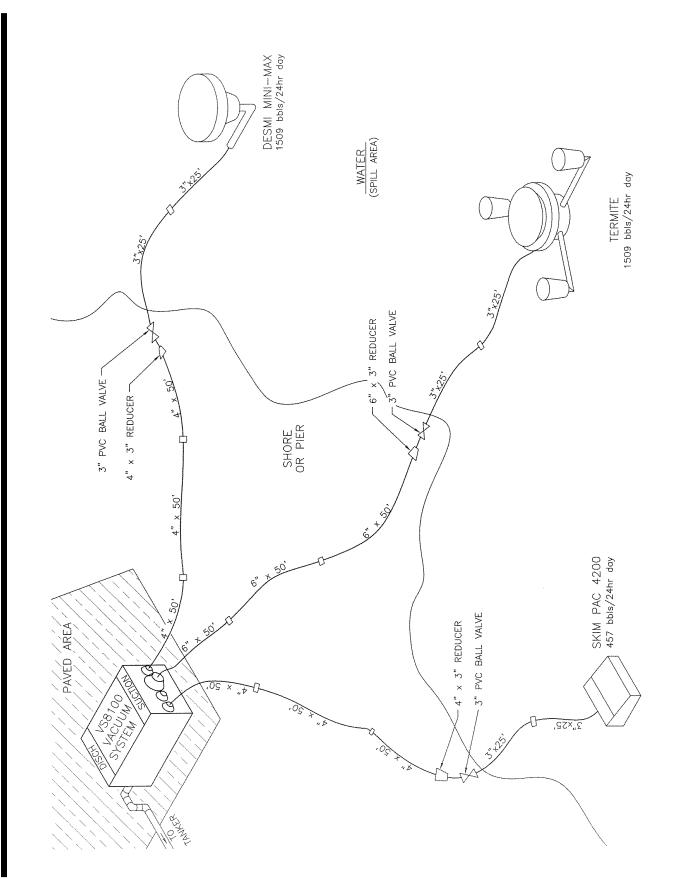
	<u>Operating</u>
Length	32 ft, 0 in.
Width	7 ft, 4 in.
Height	6 ft, 6 in.
Cube	1525 cu ft
Weight	5368 lb

REFERENCES

- 1. Demaree 32' Debris Handling Boat Owner's/Operator's Manual.
- 2. 32' Rigid Hull Inflatable Boat Modification, NAVSEA Dwg. 7022751.

Downloaded from http://www.everyspec.com

VACUUM PUMP/SKIMMER SYSTEM P18100



Vacuum Pump/Skimmer System P18100 Overview

VACUUM PUMP/SKIMMER SYSTEM

SYSTEM NUMBER P18100

SYSTEM DESCRIPTION

The Vacuum Pump/Skimmer System P18100 is a stationary vacuum pump specifically developed for oil spill countermeasures. The system uses a vacuum pump to provide a strong skimming capability, and a compressor pump to provide discharge and transfer capabilities to a temporary or permanent containment area. The unique two-tank or three-tank design (depending on individual unit) provides for a continuous, smooth operation. The unit is self-contained and may be operated in automatic or manual modes. The system is intended primarily for oil spill recovery, but may subsequently be used to transfer oil from temporary containment areas to permanent storage facilities. A major feature of the unit is the capability of operating in debris-laden oil conditions without interruption. The vacuum system may be deployed for ocean or coastal beach spill situations. The airflow capacity of the system enables suction techniques to be used for beach situations. Because the system readily tolerates debris, rapid spill recovery is possible. Once the spill is recovered the debris can be separated if desired. The unit operates via a diesel driven vacuum/tank system fitted with a variety of hoses and suction heads. The large vacuum pump skimmer system is supported by two harbor type skimmers and a 2-inch, Skim-Pak system. These smaller units support the larger vacuum systems in oil spill cleanup in and around confined spaces.

SYSTEM COMPONENTS

<u>Item</u>	ESSM Number	<u>Qty</u>
1. Vacuum system	VA 2250	1
 Van, High Pressure Vacuum System (Van 1 of 2) HVAC Unit, W/Sleeve 	VA2250 AC2001	1
SL0011 Roundsling, Polyester, 14'6" Van, High Pressure Vacuum System (Van 2 of 2)	SL0011 VA2251	4
Containment Pool, 10' x 20' x 12", Cooley Urethane	CP3040	1
Skim-Pak, 2", 457 bbls/24 Hr Day Skimmer, Harbor, Mini-Max	SK0620 SK0900	1 1
Skimmer, Termite	SK0905	1
Vacuum System, High Pressure, Three-Tank	VS0010	1
b. Van, Vacuum Pump/Skimmer System	VA2255 (Altn)	1*
c. Vacuum Pump/Skimmer System	VS8100 (Altn)	1

^{*} Contents of the Vacuum Pump/Skimmer System Van VA2255 have not been determined and van is not ready as part of the system.



High Pressure Vacuum System Van (Van 1 of 2)

VAN, HIGH PRESSURE VACUUM SYSTEM (VAN 1 OF 2)

ESSM NUMBER VA2250

DESCRIPTION

The High Pressure Vacuum System Van VA2250 (Van 1 of 2) is used to store and ship ancillary equipment for the vacuum pump/skimmer system. The van contains adapters, safety cables, flange couplings, various size hoses, spare parts kit for the two- and three-tank vacuum pump units, various fittings and other ancillary items necessary to set up, operate, and maintain the system.

SPECIFICATIONS

Manufacturer ESSM Facility

PHYSICAL CHARACTERISTICS

	Shipping
Length	20 ft, 0 in.
Width	8 ft, 0 in,
Height	8 ft, 0 in.
Cube	1280 cu ft
Weight	11,240 lb

REFERENCES

None





HVAC Unit w/Sleeve AC2001

HVAC UNIT W/SLEEVE

ESSM NUMBER AC2001

DESCRIPTION

The HVAC Unit w/Sleeve AC2001 is a 12,000-Btu through-the-wall air conditioner and heat pump unit. It is designed to maintain a comfortable ambient atmosphere in the space being conditioned.

SPECIFICATIONS

Manufacturer Frigidaire
Model FAH12EJ2T
Btu 12,000
Volts 230 V ac

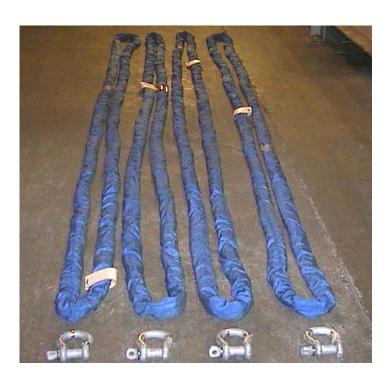
PHYSICAL CHARACTERISTICS

Operating/Shipping

Length 2 ft, 0 in.
Width 1 ft, 7 in.
Height 1 ft, 3 in.
Cube 4 cu ft
Weight 104 lb

REFERENCES

- 1. Frigidaire Installation Instruction 309000911.
- 2. Frigidaire Owner's Guide 309000823.



14' 6" Polyester Roundslings (4) SL0011

ROUNDSLING, POLYESTER, 14' 6"

ESSM NUMBER SL0011

DESCRIPTION

The 14' 6" Polyester Roundsling SL0011 is an endless synthetic sling made from a skein (continuous loop or hank) of polyester yarn covered by a double-wall tubular jacket. The roundsling body can be compared to sling webbing with the tubular jacket face yarns woven without binder yarns; this allows the core yarns to move independently within the jacket.

Four 14' 6" Polyester Roundslings are used for lifting each van to which they are assigned.

SPECIFICATIONS

Sling		<u>Shackle</u>	
Manufacturer	Lift-All	Manufacturer	Crosby
Model	EN240	Part number	G-209-A
Vertical SWL	21,200 lb	Size	1"
Choker SWL	17,000 lb	Working load limit	25,000 lb
Basket SWL	42,400 lb		
Overall length	14 ft, 6"		

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length (operating)	14 ft, 6 in.
Cube (coiled for shipping)	4 cu ft
Weight	18 lb

REFERENCES

1. Lift-All 1998 Catalog.



High Pressure Vacuum System Van (Van 2 of 2)

VAN, HIGH PRESSURE VACUUM SYSTEM (VAN 2 OF 2)

ESSM NUMBER VA2251

DESCRIPTION

The High Pressure Vacuum System Van VA2251 (Van 2 of 2) is used to store and ship ancillary equipment for the Vacuum Pump/Skimmer System P18100. The van contains a 4000-gph, 2" Skim-Pak; a Mini-Max Harbor Skimmer; a Termite Skimmer; a Three-Tank High Pressure Vacuum System; a 10' x 20' x 12" Machinery Containment Pool; various fittings; and other ancillary items necessary to set up, operate, and maintain the system.

SPECIFICATIONS

Manufacturer ESSM Facility

PHYSICAL CHARACTERISTICS

	Shipping
Length	20 ft, 0 in.
Width	8 ft, 0 in,
Height	8 ft, 0 in.
Cube	1280 cu ft
Weight	18,360 lb

REFERENCES

None



Machinery Containment Pool CP3040



Machinery Containment Pool CP3040

CONTAINMENT POOL, 10' X 20' X 12", COOLEY URETHANE ESSM NUMBER CP3040

DESCRIPTION

The Machinery Containment Pool CP3020 is a 10' x 20' x 12" urethane berm. It is used to catch and contain any oil, fuel, hydraulic fluid, or contaminants leaking or spilled from diesel powered or hydraulically driven components.

SPECIFICATIONS

Manufacturer Basic Concepts
Fabric material Cooley Urethane

PHYSICAL CHARACTERISTICS

	<u>Operating</u>	Shipping
Length	10 ft, 0 in.	1 ft, 0 in.
Width	20 ft, 0 in.	1 ft, 0 in.
Height	1 ft, 0 in.	1 ft, 0 in.
Cube	23 cu ft	1 cu ft
Weight	70 lb	70 lb

REFERENCES

None



2" Skim-Pak SK0620

SKIM-PAK, 2", 457 BBLS/24 HR DAY

ESSM NUMBER SK0620

DESCRIPTION

The 457 bbls/24hr day, 2" Skim-Pak SK0620 is a complete emergency response system ready for rapid deployment. The unit includes a separator, hose, and control wand. The Skim-Pak unit is designed to be used as a general purpose skimmer for oil recovery on lakes, harbors, rivers, streams, and calm water applications.

SPECIFICATIONS

Manufacturer Douglas Engineering

Series 4000 Model 4200

Max. recovery rate 457 bbls/24 hrs Flow 5 to 68 gpm Size 2 in.

Draft 5 in.
Weir width 1 ft

Type Flow control Material Fiberglass

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length 2 ft, 3 in.
Width 2 ft, 1 in.
Height 11 in.
Cube 5 cu ft
Weight 18 lb

REFERENCES

1. Douglas Engineering Brochure; "The Skimmer That Really Works".



Mini-Max Harbor Skimmer SK0900

SKIMMER, HARBOR, MINI-MAX

ESSM NUMBER SK0900

DESCRIPTION

The Mini-Max Harbor Skimmer SK0900 is a center float weir skimmer with 100% unobstructed flow into the collection hopper. The recovery rate is up to 220 bbl/h on light to medium viscosity oils. The center float design makes the skimmer the smallest floating weir skimmer on the market when comparing recovery rate with size and weight of the skimmer.

The skimmer incorporates Desmi's self-adjusting lip adapter. This adapter adjusts the weir lip automatically, allowing unattended operation, and it maintains correct weir position relative to the oil/water interface, even in choppy waves. By adjusting weir height to match oil layer thickness, water content is reduced and recovery efficiency increased. The skimmer head may be connected to a self-priming pump or vacuum truck.

SPECIFICATIOINS

Manufacturer Desmi Environmental

Model Mini-Max

Max recovery rate 1509 bbl/24 hr (dependent on available pump capacity)

Inlet weir 24-in. diameter

Outlet Hinged bend with swivel joint and 3-in. camlocking-type

coupling (male)

Materials:

Center float, hopper, and floating collar Polyethylene

Bellows Oil resistant neoprene rubber

Discharge system Stainless steel

Draft 12 in.

Suction hose 3-in. diameter corrugated suction hose with 3-in. camlock

male/female couplings

Discharge hose 3-in. diameter layflat hose with 3-in. camlock female

coupling at one end

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length	3 ft, 1 in.
Width	2 ft, 11 in.
Height	1 ft, 3 in.
Cube	12 cu ft
Weight	48 lb

SKIMMER, HARBOR, MINI-MAX (Cont'd)

ESSM NUMBER SK0900

REFERENCES

None

Downloaded from http://www.everyspec.com



Termite Skimmer SK0905

SKIMMER, TERMITE

ESSM NUMBER SK0905

DESCRIPTION

The Termite Skimmer SK0905 utilizes a large free-floating weir lip-type skimmer. The flexible, high buoyancy weir system allows for nearly 6 inches of vertical travel for excellent wave following, even in choppy seas. The weir height automatically adjusts to match the discharge rate of the pump, ensuring high recovery efficiency at all flow rates. The Termite's shallow draft allows for operation in very shallow water. The skimmer's high buoyancy-to-weight ratio and low inertial mass ensures excellent seakeeping characteristics in offshore conditions.

The Termite is uniquely versatile because it can be used in four modes of operation to fit the operating conditions:

- 1. Free-floating and offloaded by DOP-160 screw pump. This provides for a nameplate capacity of 189 bbl/hr (approx.).
- 2. Free-floating and offloaded through a separate 3-in. or 4-in. suction port by a diaphragm pump, peristaltic pump, or self-priming centrifugal pump. It is also ideal for offloading with the RO-VAC or vacuum truck. This provides a nameplate capacity of 315 bbl/hr (approximate).
- 3. Free-floating and offloaded simultaneously by DOP-160 and suction pump. This provides a name-plate capacity of 500 bbl/hr (approx.).
- 4. Suspended without floats from a crane. No nameplate capacity.

The Termite Skimmer uses a DOP-160 modified Archimedes' screw design, which provides many benefits over other types of pumps. The DOP-160 easily cuts and processes debris, does not emulsify oil and water when pumping, and has a low weight relative to its capacity and discharge pressure.

Pump

SPECIFICATIONS

Skimmer

			
Manufacturer	RO-Clean Desmi	Manufacturer	Desmi
Model	Termite	Model	DOP-160
Max recovery rate	1509 bbl/24 hr	Discharge pressure	150 psig
Outlet	3 in. camlock	Hydraulic input:	
		Flow	-3 to $+17$ gpm
		Pressure	1500/3000 psig

SKIMMER, TERMITE (Cont'd)

ESSM NUMBER SK0905

PHYSICAL CHARACTERISTICS

	Operating/Shipping
Length	5 ft, 9 in.
Width	5 ft, 2 in.
Height	2 ft, 4 in.
Cube	70 cu ft
Weight	165 lb

REFERENCES

1. Hyde Instruction Manual for Desmi-Termite Skimmer.

Downloaded from http://www.everyspec.com



Three-Tank, High Pressure Vacuum System VS0010

VACUUM SYSTEM, HIGH PRESSURE, THREE-TANK

ESSM NUMBER VS0010

DESCRIPTION

The Three-Tank Vacuum System VS0010 is a skid-mounted, diesel-powered vacuum pump. The unit uses the positive and negative air pressures developed by a rotary screw vacuum pump and a rotary screw air compressor to draw in and discharge water, oil, emulsions, and debris in a spill response scenario. The vacuum system can skim oil from the water surface or it can be used as a rapid transfer pump for oil and debris. The system is effective in confined areas such as under piers, in shallow water, and in areas with heavy floating debris.

SPECIFICATIONS

Engine	Air Compressor

Manufacturer **Deutz Engines** Manufacturer LeRoi Mfg. Co. BF6L913 Model Model G1231H No. of cylinders Rated capacity 300 scfm 4 Rpm (full load) 2300 Max. pressure 100 psig Starting Electric Max. flow rate 300 scfm Battery 12 V dc

Horsepower 135 @ 2300 rpm

Fuel Diesel

Fuel source 20-gal. int. fuel tank

Fuel consumption 5 gph

Vacuum Pump

Manufacturer LeRoi Manufacturing Co.

40 SSV Model Rated capacity 500 cfm Max. vacuum 29.5 in. Hg Max recovery rate 3771 bbl/24 hr

VACUUM SYSTEM, HIGH PRESSURE, THREE TANK (Cont'd) ESSM NUMBER VS0010

PHYSICAL CHARACTERISTICS

Operatin	g/Ship	ping

Length	13 ft, 0 in.
Width	7 ft, 4 in.
Height	6 ft, 8 in.
Cube	638 cu ft
Weight	12,500 lb

REFERENCES

1. CounterVac Model 5335 Operating and Maintenance Manual.

Downloaded from http://www.everyspec.com



Vacuum Pump/Skimmer System Van VA2255

VAN, VACUUM PUMP/SKIMMER SYSTEM

ESSM NUMBER VA2255

DESCRIPTION

The Vacuum Pump/Skimmer System Van VA2255 is **CURRENTLY UNDER DEVELOPMENT**.

SPECIFICATIONS

Manufacturer ESSM Facility

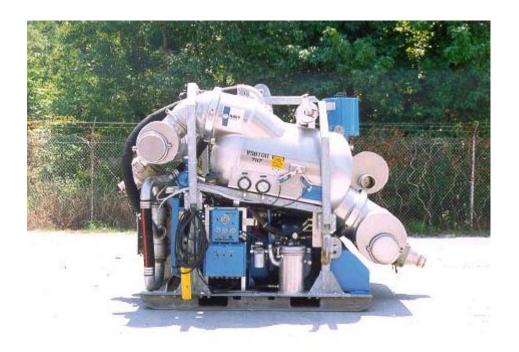
PHYSICAL CHARACTERISTICS

€.	211	1111	na
٠٦.		,,,,,	עוו
\sim		pi	
_	_	_	_

Length 20 ft, 0 in.
Width 8 ft, 0 in,
Height 8 ft, 0 in.
Cube 1280 cu ft
Weight TBD

REFERENCES

None



Vacuum Pump VS8100

VACUUM SYSTEM

ESSM NUMBER VS8100

DESCRIPTION

The Vacuum System VS8100 is a skid-mounted, diesel-powered vacuum pump. The unit uses the positive and negative air pressures developed by two rotary vane type vacuum pumps to draw in and discharge water, oil, emulsions, and debris in a spill response scenario. The vacuum system can skim oil from the water surface or it can be used as a rapid transfer pump for oil and debris. The system is effective in confined areas such as under piers, in shallow water, and in areas with heavy floating debris.

SPECIFICATIONS

Engine		Pressure Pump	
Manufacturer Model No. of cylinders Bore Stroke Displacement Rpm (full load) Starting Battery Horsepower Fuel Fuel source	Perkins Engines 4.236 4 3.875 in. 5 in. 235.9 cu in. 2,400 Electric 12 V dc 78.5 @ 2400 rpm Diesel 20-gal. int. fuel tank	Manufacturer Model Rated capacity Maximum pressure Max. flow rate Horsepower draw	Fruitland Tool & Mfg. RCF500 320 scfm @ 15 psig 35 psig 380 scfm 27 hp @ rated capacity
Fuel consumption Vacuum Pump	5 gph		
Manufacturer Model Rated capacity Max. vacuum Horsepower draw	Fruitland Tool & Mfg. RCF800 476 cfm @ 18 in. Hg 28 in. Hg 27 hp @ rated capacity		

VACUUM SYSTEM (Cont'd)

ESSM NUMBER VS8100

PHYSICAL CHARACTERISTICS

^ .	/01 •	•	
Operatin	α/Shi	nnın	n
	2/13111	1 <i>7</i> 171112	ν
OPTION	$\mathcal{D}' \sim 111$	P P /	
	_		_

Length	10 ft, 6 in.
Width	7 ft, 4 in.
Height	7 ft, 8 in.
Cube	591 cu ft
Weight	7374 lb

REFERENCES

- 1. Vacuum System VS8100 Field Use Information Guide.
- 2. Perkins User's Handbook and Supplements.

INCINERATOR SYSTEM

SYSTEM NUMBER P20500

SYSTEM DESCRIPTION

The Incinerator System P20500 is an In-situ burning system. In-situ burning is the intentional ignition and controlled combustion of a spill product at or in the vicinity of the spill site. In-situ burning of oil at an oil spill site can offer a logistically simple (as simple as other types of boom deployment) rapid, and relatively safe means for reducing the environmental impact of the oil spill. Because a large portion of the oil is converted to gaseous combustion products during burning, the need for collection, storage, transport, and disposal of recovered oil can be substantially reduced by using this system.

SYSTEM INACTIVE

Downloaded from http://www.everyspec.com

OIL/WATER SEPARATION SYSTEM P12100





Oil/Water Separation System P12100

OIL/WATER SEPARATION SYSTEM

SYSTEM NUMBER P12100

SYSTEM DESCRIPTION

The Oil/Water Separation System P12100 is a passive separator system that is designed to separate oil and solids from waste water. The waste water flows into the separator and contacts the coalescing plates, which facilitates the separation of the oil and solids from the waste water. An external steam heat exchanger preheats the incoming waste water, facilitating the separation process. Two 480-volt ac internal electric heater exchangers further the separation process. The waste oil and water are then disposed of separately.

SYSTEM COMPONENTS

<u>Item</u>		ESSM Number	<u>Qty</u>
1.	Separator, Oil/Water, Gravity Plate, 100-Gpm	SR0815	1
2.	Heater, External, Oil/Water Separator	SR0820	1



100-Gpm Gravity Plate Oil/Water Separator SR0815

SEPARATOR, OIL/WATER, GRAVITY PLATE, 100 GPM

ESSM NUMBER SR0815

DESCRIPTION

The 100-Gpm Gravity Plate Oil/Water Separator SR0815 is a passive system that is designed to separate oil and solids from waste water. It is a land-based unit that utilizes gravity with coalescing plates for the removal of oil and solids. The tank is made from mild steel and the coalescing plates inside the tank are made from polypropylene. The waste water flows into the separator and contacts the coalescing plates, which causes the oil to separate from the waste water and rise to the top, while any solids drop through special troughs. The oil then flows out through adjustable "skimming" devices into a proper receptacle. Solids can be removed through pipe connections on the side of the tank. The clean processed water is then discharged into waste water service lines.

SPECIFICATIONS

Manufacturer	Fram
Model	VPS-4
Maximum oil flow	100 gpm
Air temperature	40° - 125°F
Water temperature	40° - 140°F
TT . 1	

Heat exchangers

Quantity 2

Type Electric

Power requirements 50-kW, 440-volt, 3-phase

Specific gravity of oils 0.8 - 9

Viscosity of oils 1 - 20,000 mg/1 max.

Detergents 100 ppm max.

PHYSICAL CHARACTERISTICS

	Shipping
Length	16 ft, 3 in.
Width	5 ft, 5 in.
Height	7 ft, 7 in.
Cube	668 cu ft
Weight	8822 lb

REFERENCES

- 1. VPS Oil/Water Separator Operation and Maintenance Manual.
- 2. Test Report for Naval Surface Weapons Center, Dahlgren, Va.
- 3. Model VPS-4 Oil/Water Separator, Fram Industrial Dwg. 6050390.



Oil/Water Separator External Heater SR0820

HEATER, EXTERNAL, OIL/WATER SEPARATOR

ESSM NUMBER SR0820

DESCRIPTION

The Oil/Water Separator External Heater SR0820 is a portable heating unit that uses steam heated coils to reduce the viscosity of the product being pumped. This facilitates transfer of the product and aids in the oil/water separation process.

SPECIFICATIONS

Manufacturer Sims Co. Inc.
Type Shell and tube

PHYSICAL CHARACTERISTICS

 Length
 14 ft, 0 in.

 Width
 3 ft, 4 in.

 Height
 2 ft, 8 in.

 Cube
 124 cu ft

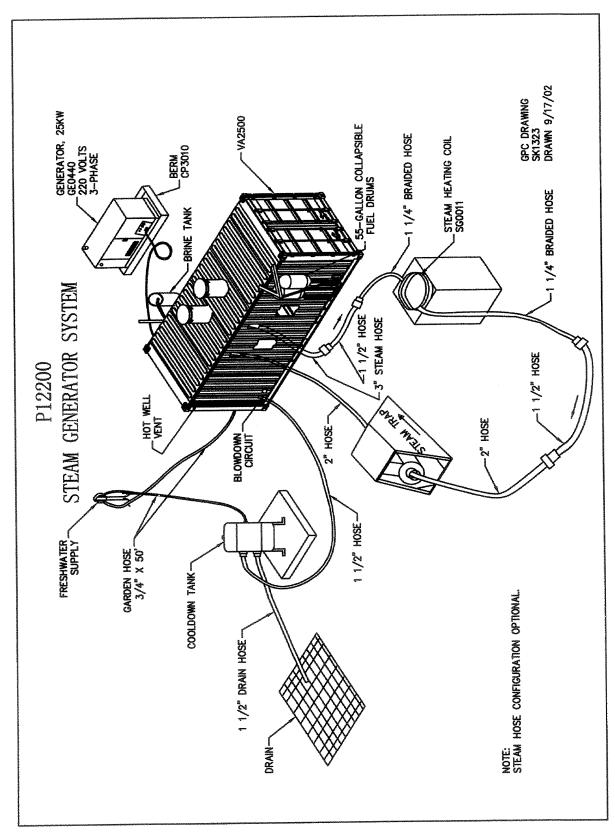
 Weight
 1184 lb

REFERENCES

None

Downloaded from http://www.everyspec.com

STEAM GENERATORS P12200



Steam Generators P12200

STEAM GENERATORS

SYSTEM NUMBER P12200

DESCRIPTION

The Steam Generator System P12200 consists of two 60-hp steam generators, a 25-kW generator, a heating coil, an ancillary basket with all the necessary ancillary equipment, a water treatment skid package, a tool box, and a shipping container.

The two 60-hp steam generators can be operated independently or simultaneously. When operated simultaneously they produce 120-hp steam.

The steam generators and support equipment can all be removed from the shipping container and operated independently. Each component weighs less than 4000 pounds and is designed to be air lifted to a stricken vessel.

Recovery and pumping operations often require the heating of highly viscous product. The SUPSALV skimmers have offloading pumps that can remove recovered product from the skimmer storage tanks in most cases. However, if the product is very viscous it must be heated to remove it. The pumping of very viscous product during lightering operations may also require the heating of the product. The steam generator system provides the steam heat required in cold weather operations for oil-water separation, for lightering vessels, and for cleaning equipment used at a spill site.

SYSTEM COMPONENTS

<u>Item</u>	ESSM Number	<u>Qty</u>
1. Van, Steam Generator System	VA2500	1
a. Containment Pool, Machinery, 5' x 5' x 12"	CP3000	1
b. Containment Pool, Machinery, 10' x 6' x 12"	CP3010	1
c. Generator, 25-kW, Diesel, Model C14J25SQ	GE0440	1
d. Generator, Steam, 60-Hp, Model E-10	SG0010	2
e. Heating Coil, Submersible	SG0011	1
f. Ancillary Basket for Steam Generator System P12200	SG0012	1
g. Water Treatment Skid Package, 120-Hp Capacity	SG0015	1
h. Roundsling, Polyester, 14'6"	SL0011	1
i. Roundsling, Polyester, 16'	SL0012 (Altn)*	4
j. Tool Box, Steam Generator Van	TL0085	1

^{*}Alternate ESSM configurations are functionally equivalent and are not shown in the catalog.



Steam Generator System Van VA2500

VAN, STEAM GENERATOR SYSTEM

ESSM NUMBER VA2500

DESCRIPTION

The Steam Generator System Van VA2500 is used as a storage and shipping container for the components of the Steam Generator System, which include a 25-kW Generator GE0440, two steam Generators SG0010, a Submersible Heating Coil SG0011, an Ancillary Basket SG0012, a Water Treatment Skid SG0015, and a Tool Box TL0085.

SPECIFICATIONS

None

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length	20 ft, 0 in.
Width	8 ft, 0 in.
Height	8 ft, 0 in.
Cube	1280 cu ft
Weight	20,100 lb

REFERENCES



5' x 5' x 12" Machinery Containment Pool CP3000

CONTAINMENT POOL, MACHINERY, 5' x 5' x 12"

ESSM NUMBER CP3000

DESCRIPTION

The Machinery Containment Pool CP3000 is a 5' x 5' x 12" urethane berm. It is used to provide a means of catching and containing any oil, fuel, or contaminants leaking or spilled from the diesel generator for the Steam Generator System.

SPECIFICATIONS

Manufacturer Basic Concepts
Fabric material Cooley Urethane

PHYSICAL CHARACTERISTICS

	<u>Shipping</u>	<u>Operating</u>
Length	1 ft, 8 in.	5 ft, 0 in.
Width	1 ft, 8 in.	5 ft, 0 in.
Height	6 in.	1 ft, 0 in.
Cube	1.5 cu ft	25 cu ft
Weight	34 lb	34 lb

REFERENCES



10' x 6' x 12" Machinery Containment Pool CP3010

CONTAINMENT POOL, MACHINERY, 10' X 6' X 12"

ESSM NUMBER CP3010

DESCRIPTION

The Machinery Containment Pool CP3010 is a 10' x 6' x 12" urethane berm. It is used to provide a means of catching and containing any oil, fuel, or contaminants leaking or spilled from the diesel generator for the Steam Generator System.

SPECIFICATIONS

Manufacturer	Basic Concepts
Fabric material	Cooley Urethane

PHYSICAL CHARACTERISTICS

	<u>Operating</u>	<u>Shipping</u>
Length	10 ft, 0 in.	1 ft, 8 in.
Width	6 ft, 0 in.	1 ft, 8 in.
Height	1 ft, 0 in.	0 ft, 6 in.
Cube	60 cu ft	1.5 cu ft.
Weight	56 lb	34 lb

REFERENCES



25-kW Diesel Generator GE0440

GENERATOR, DIESEL, 25-kW, MODEL C14J25SQ

ESSM NUMBER GE0440

DESCRIPTION

The 25-kW Diesel Generator GE0440 is a self-contained unit, mounted on a rugged steel base with an integral fuel tank and enclosed in a weather-resistant, sound-attenuated steel enclosure. All generator and engine controls and instrumentation are mounted on tilt-out, hinged panels, which are visible through a safety glass window during operation of the generator. Access to the generator and engine is provided through hinged doors. Forklift slots penetrate the width of the base for ease of transportation and handling. Four base tie-down points are installed for securing the unit during transportation, and a center-point lifting point is provided for overhead lifting.

The generator supplies 220-volt, three-phase or single phase power to the power distribution system. Power is distributed via four main 220-volt, three-phase distribution terminals; a 240-volt, three-phase temporary power receptacle; two 120/240-volt, single phase, marine, twist-lock, temporary power receptacles; and two 120-volt, single phase ground fault interrupter (GFI) receptacles.

Engine

SPECIFICATIONS

25-kW Generator Assembly

			
Manufacturer	Coleman Engineering	Manufacturer	Isuzu
Model	C14J25SQ	Model	4JB1
		No. of cylinders	4
		Bore	77.4 mm
Generator		Stroke	92 mm
		Displacement	1.7311
Manufacturer	Newage International	Compression ratio	22:1
Model	BCL	Horsepower/kW	41/30.6@
Type	Alternating		3000 rpm
Frequency	60 Hz @ 1800 rpm	Starting	Elect, 12 V dc
Voltage ranges:	120/240 volt, single phase	Fuel	Diesel
	208/240 volt, three-phase	Rpm (full load)	1800
	416/480 volt, three-phase	Rpm (idle)	850
	_	Fuel capacity	56 gal.

GENERATOR, DIESEL, 25-kW, MODEL C14J25SQ (CONTD) ESSM NUMBER GE0440

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length 6 ft, 7 in. Width 3 ft, 2 in. 4 ft, 6 in. Height Cube 94 cu ft

2750 lb (dry weight) Weight

REFERENCES

- 1. Isuzu Diesel Engine 4LB1, 4LC1, 4LE Instruction Manual.
- 2. Coleman Engineering 23-kW Super Quiet PAC Operation Manual.

Downloaded from http://www.everyspec.com



Steam Generator SG0010

STEAM GENERATOR, MODEL E-60

ESSM NUMBER SG0010

DESCRIPTION

The Steam Generator SG0010 is a water-in-tube boiler and will deliver its rated output of 99% quality steam (containing less than 1% moisture) per hour from 60°F feedwater. The generator will develop its full rated pressure within five minutes from a cold start. The generator features a continuous circulating water feed system with a constant capacity pump which ensures a wet tube in the generator unit at all times. Automatic controls regulate the feedwater rate and modulate or stop the burner in accordance with steam demand. Standard equipment includes safety devices for protection against water failure, excessive pressure, and electrical overload. The steam generator is used during oil spill recovery operations. Pumping of viscous product is common during recovery operations. If the product is very viscous it must be heated to remove it from skimmer storage tanks. Heating of product is also required during lightering operations. Steam heat is also required for the Oil/Water Separation System P12100 to operate properly in cold weather and for cleaning operations.

SPECIFICATIONS

Manufacturer	Clayton Manufacturing

Model E-60
Steam output 2070 lb/hr
Steam design pressure 15 to 500 psi
Steam operating pressure 12 to 450 psi

Full load amperage 7.5 amps @ 460 volts

Fuel oil consumption 17.8 gph Water supply 318 gph

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length 5	ft, 3 in.
Width 3	ft, 10 in.
Height 7	ft, 3 in.
Cube 1	46 cu ft
Weight 2	268 lb

STEAM GENERATOR, MODEL E-60 (CONTD)

ESSM NUMBER SG0010

REFERENCES

- 1. Clayton Steam Generator and Fluid Heater Installation Manual.
- 2. Clayton Steam Generator 60-kW Boiler System.
- 3. Clayton Instruction Manual for Steam Generator E-60.
- 4. Feedwater Treatment Reference Manual for Clayton Steam Generators/Fluid Heaters.
- 5. Clayton Operation and Programming Guide V.I.P.
- 6. Clayton Hotwell Instructions for 65 225 MP & HP Units.
- 7. Clayton Softener & Filter Installation & Operation Manual.

Downloaded from http://www.everyspec.com



Submersible Heating Coil SG0011

SUBMERSIBLE HEATING COIL

ESSM NUMBER SG0011

DESCRIPTION

The Submersible Heating Coil SG0011 is a tubular coil that connects in-line with the steam hose. The coil can then be lowered into a compartment containing highly viscous product to act as a heat exchanger. The heating of the viscous product lowers the product's viscosity, allowing it to be pumped from the compartment of a vessel.

SPECIFICATIONS

Manufacturer Commercial

Materials Copper tube with stainless steel strapping

Connections 1 1/4 IPS
Capacity (at 100 psi steam) 1700 lb/hr
Heating surface 81 sq ft
Maximum operating pressure 200 psi

PHYSICAL CHARACTERISTICS

Operating/Shipping

Inside diameter 1 ft, 4 1/2 in.

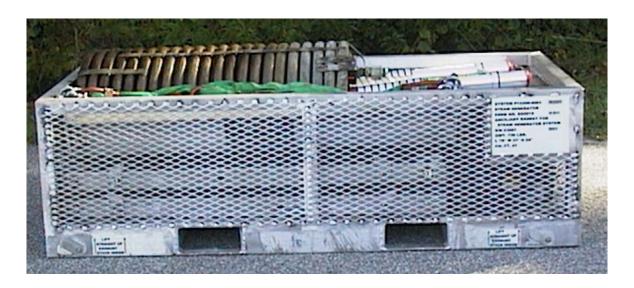
Outside diameter 1 ft, 11 in.

Height 3 ft, 10 in.

Cube 14 cu ft

Weight 260 lb

REFERENCES



Ancillary Basket for Steam Generator System SG0012

ANCILLARY BASKET FOR STEAM GENERATOR SYSTEM

ESSM NUMBER SG0012

DESCRIPTION

The Ancillary Basket SG0012 for the Steam Generator System is comprised of the equipment necessary to set up and maintain the Steam Generator System. The ancillary set consists of one shipping container. The contents of the ancillary set are listed below.

SPECIFICATIONS

<u>Item</u>	<u>Qty</u>
Cable, grounding, #8, 3/8" lug, 1/4" x 50'; w/plate Cable, main power, 4/4SO x 50'; w/10-amp plug Cable, pigtail, 4/4SO x 10'; w/100-amp plug Cable, 18/2SO x 50'; w/Amphenol plug and emergency shutdown	1 2 2 1
Cable, interconnecting power, 10/4 x 50';	3
w/30-amp, 220-volt plug	
Cable, interconnecting, 18/2SO x 50'; w/Amphenol plug	4
Gloves, welder's	4
Hard hats	4
Heating Coil, Submersible	1
Hose, garden, 3/4" x 50'	2
Inventory, laminated	1
Lance, steam, 3-piece	1
Power panel, remote	1
Spreader bar (heating coil and generator lifting)	1
Ancillary basket for Steam Generator System	1
Roundsling bridle, polyester, 2-leg (1 @ 60" and 1 @ 93")	1
Roundsling bridle, polyester, 2-leg (2 @ 93")	1
Shackle, safety, alloy, 1/2"	8
Shackle, screw pin, alloy, 3/4"	4

ANCILLARY BASKET FOR STEAM GENERATOR SYSTEM (CONTD)

ESSM NUMBER SG0012

PHYSICAL CHARACTERISTICS

\sim			101	•	•	
()t	perati	no/	'Sh	111	nın	σ
\sim 1	JOIAU	1115/	OII	ıμ	ρ_{111}	5

Length	6 ft, 7 in.
Width	3 ft, 1 in.
Height	2 ft, 0 in.
Cube	41 cu ft
Weight	736 lb

REFERENCES

Downloaded from http://www.everyspec.com



120-Hp Water Treatment Skid Package SG0015

WATER TREATMENT SKID PACKAGE, 120-HP CAPACITY

ESSM NUMBER SG0015

DESCRIPTION

The 120-Hp Capacity Water Treatment Skid Package SG0015 contains on one skid all the components necessary to chemically treat the steam generators' feedwater. The skid contains the receiver, softeners, chemical pumps, blowdown tank, control box, and booster pump(s).

Water system control and monitoring are required on any boiler or steam generator to protect it against corrosion and scaling. Due to the compact nature of the Clayton Steam Generator, the water must be continually treated and regularly monitored. Daily testing is recommended to assure normal functioning of all components. The automatic operation of the SG0015 Water Treatment Skid Package makes operational and maintenance efforts minimal.

SPECIFICATIONS

Manufacturer	Clayton Industries
Model	120-hp capacity

PHYSICAL CHARACTERISTICS

	/0		•	
(Inaratii	$\alpha \alpha / \mathbf{\hat{x}}$	hin	กาก	α
Operation	12/1	11117	DILL	2

Length	6 ft, 0 in.
Width	4 ft, 0 in.
Height	6 ft, 6 in.
Cube	156 cu ft
Weight	2400 lb

REFERENCES



16' Polyester Roundslings SL0012 (4 per van)

ROUNDSLING, POLYESTER, 16'

ESSM NUMBER SL0012

DESCRIPTION

The 16' Polyester Roundsling SL0012 is an endless synthetic sling made from a skein (continuous loop or hank) of polyester yarn covered by a double-wall tubular jacket. Each sling is supplied with a 1" screw pin-type shackle. Four 16' Polyester Roundslings are used for lifting the van to which they are assigned.

SPECIFICATIONS

Sling		<u>Shackle</u>	
Manufacturer	Lift-All	Manufacturer	Crosby
Model	EN240	Part number	G-209-A
Vertical SWL	21,200 lb	Size	1 in.
Choker SWL	17,000 lb	Working load limit	25,000 lb
Basket SWL	42,400 lb	_	
Overall length	16 ft, 0 in.		

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length (operating)	16 ft, 0 in.
Cube (coiled for shipping)	4 cu ft
Weight	18 lb

REFERENCES

1. Lift-All 1998 Catalog.



Steam Generator System Tool Box TL0085

TOOL BOX, STEAM GENERATOR SYSTEM

ESSM NUMBER TL0085

DESCRIPTION

The Steam Generator System Tool Box TL0085 is a basic mechanic's tool set containing both 3/8" and 1/2" sockets and accessories, wrenches, pliers, hammers and other miscellaneous tools. It contains the necessary tools to set up and perform basic repairs on the Steam Generator System P12200.

SPECIFICATIONS

Manufacturer Proto Tool set number 99401

PHYSICAL CHARACTERISTICS

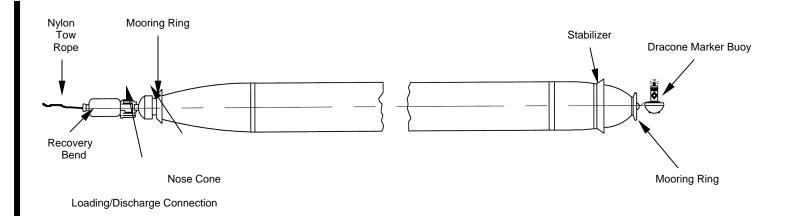
Operating/Shipping

Length 2 ft, 1 in.
Width 10 in.
Height 10 in.
Cube 1.5 cu ft
Weight 72 lb

REFERENCES

Downloaded from http://www.everyspec.com

23.1/26/50K-GALLON SPILL RECOVERY BLADDER SYSTEM P14300





Spill Recovery Bladder OB0809



Spill Recovery Bladder OB0810



Spill Recovery Bladder OB0820

SPILL RECOVERY BLADDERS, 23.1/26/50K-GALLON

SYSTEM NUMBER P14300

DESCRIPTION

The Spill Recovery Bladder System P14300 consists of either a 23,100-gallon, 26,000-gallon or 50,000-gallon spill recovery bladder, a Bladder Repair Kit, and a Marker Buoy. The spill recovery bladders are used for the temporary storage of recovered oil or other fluids recovered by the skimming of oil or the lightering of a vessel. The spill recovery bladders are small (23,100-, 26,000-, and 50,000-gallon capacity) towable floating rubber tanks. At the spill site the bladders can be used to hold oil discharged directly from a skimming system or other oil recovery source.

SYSTEM COMPONENTS

<u>Item</u>	ESSM Number	<u>Qty</u>
1. Buoy, Marker, Dracone	BU0023	1*
2. Repair Kit, Bladder	OB0801	1*
3. Bladder, Spill Recovery		1
a. 26,000-Gallon, Type E, Rubber (Altn)	OB0809	
b. 23,100-Gallon, Type E, Rubber (Altn)	OB0810	
c. 50,000-Gallon, Type F, Rubber (Altn)	OB0820	

^{*}A Bladder Repair Kit OB0801 and a Dracone Marker Buoy BU0023 are included and shipped with each individual bladder.



Dracone Marker Buoy BU0023

BUOY, MARKER, DRACONE

ESSM NUMBER BU0023

DESCRIPTION

The Dracone Marker Buoy BU0023 consists of a 40-inch diameter styrofoam base for flotation. Extending 22 inches above the base is a 12-inch diameter column, which houses a 6-volt battery and a steady-burn white light with lens. The light's on/off function is controlled automatically by a photocell. The Marker Buoy is to be exhibited at or near the aftermost part of the Dracone being towed or moored.

SPECIFICATIONS

Manufacturer Curd Enterprises

PHYSICAL CHARACTERISTICS

Height 4 ft, 2 in.
Diameter 3 ft, 4 in.
Cube 47.5 cu ft
Weight 92 lb

REFERENCES



Bladder Repair Kit OB0801

REPAIR KIT, BLADDER

ESSM NUMBER OB0801

DESCRIPTION

The Bladder Repair Kit OB0801 consists of various tools, a patching kit with patching procedures, a white marker light, two 6-volt batteries and bulbs, MSDSs, and a laminated inventory. The Repair Kit is designed to maintain the oil storage bladder during an operational deployment.

SPECIFICATIONS

Manufacturer ESSM Facility

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length 1 ft, 8 in.
Width 10 in.
Height 1 ft, 1 in.
Cube 2 cu ft
Weight 34 lb

REFERENCES



Spill Recovery Bladder OB0809

BLADDER, SPILL RECOVERY, 26K-GALLON, TYPE E, RUBBER

ESSM NUMBER OB0809

DESCRIPTION

The Spill Recovery Bladder OB0809 is a flexible tube designed to carry petroleum products and other liquids lighter in weight than water. The spill recovery bladder's skin is made up of nylon cord, a woven nylon fabric that has been weatherproofed, and abrasion-resistant synthetic rubber.

The spill recovery bladder is towed behind the skimming vessel using a 6-inch towline. A 6-inch loading and discharge hose is attached to the towline for filling and discharging the skimmed oil into and from the bladder.

SPECIFICATIONS

Manufacturer Dunlop

Model Type E, Dracone Barge

Capacity:

 100% full
 26,400 gallons/628 bbls

 85% full
 22,400 gallons/534 bbls

Outer proofing Neoprene rubber Inner proofing Nitrile rubber

PHYSICAL CHARACTERISTICS

w/ancillary equipment)

REFERENCES

1. The Dracone Barge Operating Manual, Issue 3.



Spill Recovery Bladder OB0810

BLADDER, SPILL RECOVERY, 23.1K-GALLON, TYPE E, RUBBER

ESSM NUMBER OB0810

DESCRIPTION

The Spill Recovery Bladder OB0810 is a flexible tube designed to carry petroleum products and other liquids lighter in weight than water. The spill recovery bladder's skin is made up of nylon cord, a woven nylon fabric that has been weatherproofed, and abrasion-resistant synthetic rubber.

The spill recovery bladder is towed behind the skimming vessel using a 6-inch towline. A 6-inch loading and discharge hose is attached to the towline for filling and discharging the skimmed oil into and from the bladder.

SPECIFICATIONS

Manufacturer Engineered Fabrics
Model Type E, Dracone Barge

Capacity:

100% full 23,100 gallons/550 bbls 85% full 19, 635 gallons/468 bbls

Outer proofing Neoprene rubber Inner proofing Nitrile rubber

PHYSICAL CHARACTERISTICS

	<u>Operating</u>	Shipping (w/ancillary equipment)
Length	64 ft, 0 in.	8 ft, 0 in.
Width	NA	7 ft, 0 in.
Height	NA	4 ft, 0 in.
Diameter	9 ft, 0 in.	
Weight	2000 lb	2650 lb
Cube	5184 cu ft	224 cu ft

REFERENCES

None



Spill Recovery Bladder OB0820



Spill Recovery Bladder OB0820

BLADDER, SPILL RECOVERY, 50K-GALLON, TYPE F, RUBBER

ESSM NUMBER OB0820

DESCRIPTION

Spill Recovery Bladder OB0820 is a flexible tube designed to carry petroleum products and other liquids lighter in weight than water. The spill recovery bladder's skin is made up of nylon cord, a woven nylon fabric that has been weatherproofed, has abrasion-resistant synthetic rubber.

The spill recovery bladder is towed behind the skimming vessel using a 6-inch towline. A 4-inch loading and discharge hose is attached to the towline for filling and discharging the skimmed oil into and from the bladder.

SPECIFICATIONS

Manufacturer	Dunlop
--------------	--------

Model Type F, Dracone Barge

Capacity:

100% full 50,000 gallons/1190 bbls 85% full 42,500 gallons/1012 bbls

Outer proofing Neoprene nylon cord and woven nylon fabric

Inner proofing Nitrile rubber for petroleum products

PHYSICAL CHARACTERISTICS

	<u>Operating</u>	Shipping (w/ancillary equipment)
Length	165 ft, 0 in.	14 ft, 6 in.
Width	NA	7 ft, 1 in.
Height	NA	4 ft, 10 in.
Diameter	7 ft, 8 in.	NA
Weight	5005 lb	6640 lb
Cube	9698 cu ft	496 cu ft

REFERENCES

1. The Dracone Barge Handling, Operating, and Maintenance Manual; William Wood and Associates, New Orleans, LA.

Downloaded from http://www.everyspec.com

SALVAGE SUPPORT SKIMMER SYSTEM P16200



Salvage Skim Sys Van VA2220



Containment Pool CP3000



Containment Pool CP3030



Skim-Pak Sys Kit KT0600



2" Peristaltic Pump PU0300



1 1/2" Skim-Pak SK0600



2" Skim-Pak SK0620



26" Oil Boom Kit KT0601



Boom Storage Pallet BM0875



26" USS-26 Boom BM0760



26" Shore Boom BM0765



Oil Mop Kit KT0602



Oil Mop Skimmer SK0730



2" Dsl Diaph Pump PU2109



15' Inflatable Boat Kit KT0603



15' Inflatable Boat WB0717



Oil Storage Bladder Kit KT0604



Storage Bladder OB0805



Outboard Motor MT0015



Polyester Roundsling SL0011



Harbor Skimmer SK0900

Salvage Support Skimmer System P16200 Overview

SALVAGE SUPPORT SKIMMER SYSTEM

SYSTEM NUMBER P16200

SYSTEM DESCRIPTION

The Salvage Support Skimmer System P16200 is a stand-alone response package for recovering oil from small salvage-related spills inside ship spaces, or in and around sheltered waters. The Salvage Support Skimmer System consists of: a Salvage Skimmer System Van, which is a storage/shipping container for the components of the system; two Machinery Containment Pools that provide a means of catching and containing any oil, fuel, or contaminants leaking or spilled by components; a Skim-Pak System containing a 1 1/2-Inch and a 2-Inch Skim-Pak for skimming oil; Oil Containment Boom Kit containing 18 sections of 26-inch oil containment boom and four sections of 26-inch shore boom for booming off areas in and around harbors; an Oil Mop Kit containing an Oil Mop Skimmer and a 2-Inch Diaphragm Pump for oil removal; two 15-foot Inflatable Boats for maintaining and moving equipment; two 500-Gallon Rubber Oil Storage Bladders; two 15-hp outboard motors for the two 15-foot inflatable boats; a Mini-Max Harbor Skimmer for oil removal; four Polyester Roundslings for lifting the Salvage Skimmer System Van; and the ancillary equipment necessary to maintain and operate the components of the Salvage Skimmer System.

The 16' Polyester Roundsling SL0012 is an alternate for the 14' 6" Polyester Roundsling SL0011, and the Oil Mop Skimmers SK0733 and SK0734 are alternates for Oil Mop Skimmer SK0730. The alternate configurations are functionally the same as the primary component; however, the performance characteristics may vary slightly from one another and from the primary component. The following component listing is a representative of the slightly different system configurations that are available.

SYSTEM COMPONENTS

<u>Item</u>	ESSM Number	<u>Qty</u>
1. Van, Salvage Skimmer System:	VA2220	1
Containment Pool, Machinery, 5' x 5' x 12"	CP3000	4
Containment Pool, Machinery, 16' x 6' x 18"	CP3030	2
Kit, Skim-Pak System:	KT0600	1
Pump, Peristaltic, 2" Diesel	PU0300	2
Skim-Pak, 1 1/2", 2000-Gph	SK0600	1
Skim-Pak, 2", 4000-Gph	SK0620	1
Kit, Oil Containment Boom, Model USS-26:	KT0601	1
Pallet, Storage, 84" x 41" x 7", USS-26 and USS-26SB Boom:	BM0875	1
Boom, Oil Containment, Model USS-26, 26" x 55'	BM0760	18
Boom, Oil Containment, Model USS-26 SB, 26" x 25'	BM0765	4

SALVAGE SUPPORT SKIMMER SYSTEM

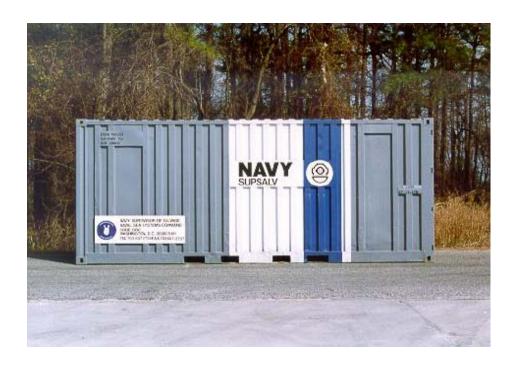
SYSTEM NUMBER P16200

SYSTEM COMPONENTS (Contd)

<u>Item</u>	ESSM Number	<u>Qty</u>
Kit, Oil Mop:	KT0602	1
Skimmer, Oil Mop, Model C-14D	SK0730	1
Skimmer, Oil Mop, Mark I-4D	SK0733 (Altn)	1*
Skimmer, Oil Mop, Model PWS-4D	SK0734 (Altn)	1*
Pump, Diaphragm, 2", Diesel	PU2109	1
Kit, Boat, Inflatable, 15':	KT0603	1
Boat, 15' Inflatable	WB0717	2
Kit, Oil Storage Bladder, 500-Gallon:	KT0604	1
Bladder, Oil Storage, 500-Gallon, Rubber	OB0805	2
Motor, Outboard, 15-Hp, 4-Stroke, Short Shaft	MT0015	2
Skimmer, Harbor, Mini-Max	SK0900	1
Roundsling, Polyester, 14' 6"	SL0011	4
Roundsling, Polyester, 16'	SL0012 (Altn)	4*
Bladder, Oil Storage, 500-Gallon, Rubber Motor, Outboard, 15-Hp, 4-Stroke, Short Shaft Skimmer, Harbor, Mini-Max Roundsling, Polyester, 14' 6"	OB0805 MT0015 SK0900 SL0011	1 4

^{*}Alternate ESSM configurations are functionally equivalent and are not shown in the catalog.

Downloaded from http://www.everyspec.com



Salvage Support Skimmer System Van VA2220

VAN, SALVAGE SUPPORT SKIMMER SYSTEM

ESSM NUMBER VA2220

DESCRIPTION

The Salvage Support Skimmer System Van VA2220 is used for the storage and shipment of the Salvage Support Skimmer System P16200 equipment, which consists of: six Machinery Containment Pools for catching and containing any oil, fuel, or contaminants leaking or spilled by components; a Skim-Pak System containing a 1 1/2-Inch and a 2-Inch Skim-Pak for skimming oil; Oil Containment Boom Kit containing 18 sections of 26" oil containment boom and 4 sections of 26" shore boom for booming off areas in and around harbors; an Oil Mop Kit containing an Oil Mop Skimmer and a 2-Inch Diaphragm Pump for oil removal; two 15-foot inflatable boats for maintaining and moving equipment; two 500-Gallon Oil Storage Bladders; two 15-hp Outboard Motors for the two 15-foot Inflatable Boats; a Mini-Max Harbor Skimmer for oil removal; four Polyester Roundslings for lifting the Salvage Skimmer System Van; and the ancillary equipment necessary to maintain and operate the components of the Salvage Skimmer System.

SPECIFICATIONS

Manufacturer ESSM Facility

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length	20 ft, 0 in.
Width	8 ft, 0 in.
Height	8 ft, 0 in.
Cube	1280 cu ft
Weight	20,700 lb

REFERENCES

None



5' x 5' x 12" Machinery Containment Pool CP3000

CONTAINMENT POOL, MACHINERY, 5' x 5' x 12"

ESSM NUMBER CP3000

DESCRIPTION

The Machinery Containment Pool CP3000 is a 5' x 5' x 12" urethane berm. It is used to catch and contain any oil, fuel, or contaminants leaking or spilled from the component placed in the berm.

SPECIFICATIONS

Manufacturer Basic Concepts
Fabric material Cooley Urethane

PHYSICAL CHARACTERISTICS

	Shipping	<u>Operating</u>
Length	1 ft, 8 in.	5 ft, 0 in.
Width	1 ft, 8 in.	5 ft, 0 in.
Height	6 in.	1 ft, 0 in.
Cube	1.5 cu ft	25 cu ft
Weight	34 lb	34 lb

REFERENCES

None



16' x 6' x 18" Machinery Containment Pool CP3030

CONTAINMENT POOL, MACHINERY, 16' x 6' x 18"

ESSM NUMBER CP3030

DESCRIPTION

The Machinery Containment Pool CP3030 is a 16' x 6' x 18" urethane berm. It is used to catch and contain any oil, fuel, or contaminants leaking or spilled from the component placed in the berm.

SPECIFICATIONS

Manufacturer Basic Concepts
Fabric material Cooley Urethane

PHYSICAL CHARACTERISTICS

	Shipping	<u>Operating</u>
Length	2 ft, 2 in.	16 ft, 0 in.
Width	2 ft, 8 in.	6 ft, 0 in.
Height	8 in.	12 in.
Cube	3 cu ft	144 cu ft
Weight	60 lb	60 lb

REFERENCES

None



Skim-Pak System Kit KT0600

KIT, SKIM-PAK SYSTEM

ESSM NUMBER KT0600

DESCRIPTION

The Skim-Pak System Kit KT0600 is used for small spills inside ship spaces, or in and around sheltered waterways and tributaries. The Skim-Pak System Kit consists of a 1 1/2-Inch Skim-Pak SK0600, a 2-Inch Skim-Pak SK0620, a 2-Inch Peristaltic Pump PU0300, a 2-Inch Diaphragm Pump PU2109, control wands, suction hoses, adapters, miscellaneous tools, and the necessary ancillary hardware to support the Skim-Pak System Kit while operating in the field.

SPECIFICATIONS

Manufacturer ESSM Facility

PHYSICAL CHARACTERISTICS

ping
0 in.
0 in.
10 in
u ft
4 lb

REFERENCES

- 1. Yanmar L-A Series Operation Manual, 114250-0003E.
- 2. Yanmar L Series Operation Manual, 114250-0002E.
- 3. Master Pump Co. Peristaltic Pump Operators/Parts Catalog, Series M.
- 4. Yanmar Service Manual, 000A0C0378.



2-Inch Peristaltic Pump PU0300

PUMP, PERISTALTIC, 2", DIESEL

ESSM NUMBER PU0300

DESCRIPTION

The 2-Inch Peristaltic Pump PU0300 is a self-priming, diesel driven, hose-type unit designed to pump a wide variety of viscous materials. The 2-inch pump will operate at a rate of 110 gpm with an open discharge. Maximum practical suction lift is 29 feet above the material surface.

The 2-inch pump is powered by a 1-cylinder, 5.5-hp, air-cooled, 4-cycle engine. The engine has a recoil starter and direct fuel injection with a variable speed control, and is designed to operate using its own integral fuel system.

SPECIFICATIONS

Pump Assembly		Engine	
Manufacturer	Master Pump Engine Co.	Manufacturer	Yanmar Diesel
Model	MD-5	Model	L60AE-D
Type	Series M, hose-type	Bore/Stroke	75mm/62mm
Capacity	110 gpm/open discharge	Displacement	273 сс
Effective daily		Rpm	3600
recovery rate	Mod 2400 - 226 bbls	Horsepower	5.5
(24-hour day)	Mod 4200 - 459 bbls	Fuel	Diesel
		Fuel source	Integral fuel tank
		Fuel consumption	.5 gph

PHYSICAL CHARACTERISTICS

	Operating/Shipping
Length	2 ft, 9 in.
Width	2 ft, 1 in.
Height	2 ft, 1 in.
Cube	12 cu ft
Weight	192 lb
=	

REFERENCES

- 1. Yanmar Service Manual for Model L-A Series Engine.
- 2. Yanmar Operations Manual for L-A Series Engine.
- 3. Yanmar Diesel Engine Parts Catalog, Pub. No. 00Y00R3981.
- 4. Master Pump Engine Co. Pamphlet for Series M Peristaltic Pumps.



1 1/2" 261-Bbls/24 Hr Day Skim-Pak SK0600

SKIM-PAK, 1 1/2", 261-BBLS/24 HR DAY

ESSM NUMBER SK0600

DESCRIPTION

The 1 1/2-Inch 261-Bbls/24 Hr Day Skim-Pak SK0600 is a complete emergency response system ready for rapid deployment. The unit includes a separator, hose, and control wand. It is designed for recovery of oil on lakes, harbors, rivers, streams and calm water applications. The 1 1/2-Inch Skim-Pak is capable of fitting through 24-inch openings and is most productive in areas where access is limited and low volume recovery is planned.

SPECIFICATIONS

Manufacturer Douglas Engineering

 Series
 2000

 Model
 2200

 Flow
 5 to 38 gpm

Size 1 1/2"

Max. recovery rate 261 bbls/24 hr day

Draft 3" Weir width 8"

Type Flow control Material Fiberglass

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length 1 ft, 6 in.
Width 1 ft, 9 in.
Height 11 in.
Cube 2 cu ft
Weight 10 lb

REFERENCES

1. Douglas Engineering Brochure; "The Skimmer That Really Works".



 $2^{\prime\prime}$ 466-Bbls/24 Hr Day Skim-Pak SK0620

SKIM-PAK, 2", 4000-GPH

ESSM NUMBER SK0620

DESCRIPTION

The 2-Inch 261-Bbls/24 Hr Day Skim-Pak SK0620 is a complete emergency response system ready for rapid deployment. The unit includes a separator, hose, and control wand. The Skim-Pak unit is designed as a general purpose skimmer for oil recovery on lakes, harbors, rivers, streams, and calm water applications.

SPECIFICATIONS

Manufacturer Douglas Engineering

 Series
 4000

 Model
 4200

Flow 5 to 68 gpm

Size 2'

Max. recovery rate 466 bbls/24 hr day

Draft 5" Weir width 12"

Type Flow control Material Fiberglass

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length 2 ft, 3 in.
Width 2 ft, 1 in.
Height 11 in.
Cube 5 cu ft
Weight 18 lb

REFERENCES

1. Douglas Engineering Brochure; "The Skimmer That Really Works".



Oil Containment Boom Kit KT0601

KIT, OIL CONTAINMENT BOOM, MODEL USS-26

ESSM NUMBER KT0601

DESCRIPTION

The Oil Containment Boom Kit KT0601 is used for small oil spills around sheltered waters and tributaries. The components of the Oil Containment Boom Kit are used to direct, hold, and control spilled oil until it can be cleaned up. The Oil Containment Boom Kit consists of a boom storage pallet that stores 1000 feet of 26-inch oil containment boom and 100 feet of 26-inch shore boom, and a wire mesh storage container that stores the boom repair kit, anchors, line, marker buoys, and the ancillary equipment necessary to operate and maintain the Oil Containment Boom Kit KT0601.

SPECIFICATIONS

Manufacturer ESSM Facility

PHYSICAL CHARACTERISTICS

	Shipping
Length	7 ft, 0 in.
Width	4 ft, 0 in.
Height	2 ft, 9 in.
Cube	66 cu ft
Weight	6334 lb

REFERENCES

None



USS-26 and USS-26SB Boom Storage Pallet BM0875 (Without Stanchions)



USS-26 and USS-26SB Boom Storage Pallet BM0875 (With Stanchions)

PALLET, STORAGE, 84" X 41" X 7", USS-26 AND USS-26SB BOOM

ESSM NUMBER BM0875

DESCRIPTION

The 84-inch x 41-inch x 7-inch (without stanchions) USS-26/USS-26SB Boom Storage Pallet BM0875 is a storage/shipping container for either the USS-26 or the USS-26SB boom. The pallet is designed to hold 18 sections of USS-26 and four sections of USS-26SB. It is constructed of 2- and 2 1/2-inch-square tubing with a 3/4-inch x #9 expanded metal deck to support the boom. The pallet incorporates forklift slots for ease in handling and transporting.

SPECIFICATIONS

Manufacturer ESSM Facility
Drawing number 6777302

PHYSICAL CHARACTERISTICS

	Shipping (with boom and stanchions)	Shipping (w/o boom and stanchions)
Length	7 ft, 0 in.	7 ft, 0 in.
Width	3 ft, 5 in.	3 ft, 5 in.
Height	7 ft, 0 in.	7 in.
Cube	167 cu ft	14 cu ft
Weight	6334 lb	700 lb

REFERENCES

1. USS-26 Boom Equipment Pallet, NAVSEA Dwg. 6777302.



26" x 55' Model USS-26 Oil Containment Boom BM0760

BOOM, OIL CONTAINMENT, MODEL USS-26, 26" X 55"

ESSM NUMBER BM0760

DESCRIPTION

The 26-inch x 55-foot Model USS-26 Oil Containment Boom BM0760 is 26 inches high, air inflatable, and made of vinyl/nitrile rubber-impregnated nylon fabric that resists abrasions, gouging, oil and salt water. The boom is constructed in 55-foot sections. Each section has five, 10-foot-long inflation chambers with an inflation/deflation valve. The chambers are connected with the same material and vulcanized with no stitched seams. The boom is designed for use in oil spill situations to contain oil released from a casualty vessel, or to deflect or contain oil in harbors and bays.

The boom has a skirt that extends 14 inches below the inflation chambers for containing the oil. A 5/16-inch galvanized chain runs through a reinforced pocket on the bottom of the skirt. This chain acts as a ballast/tension member to keep the skirt in a vertical position. There are three metal lifting handles vulcanized to each inflation section for deployment and recovery of the boom. Highly visible green strips are located at the first and third handle positions of each inflation chamber for improved visibility when the boom is waterborne.

SPECIFICATIONS

Manufacturer Engineered Fabrics

USS-26 Model Inflation pressure 2 - 3 psig 11 1/2" Draft Freeboard 14 5/8" Overall height inflated 26" Overall height deflated 37 1/2" Section length 55' Weight per foot 4.4 lb

Flotation chamber:

Diameter 13 1/2" Length 10', 6" Air valves per chamber 1

Materials:

Coated fabric Nitrile/vinyl rubber-impregnated high strength nylon cloth

Color Black with high visibility green strips

Ballast 5/16" galvanized steel chain, 45,000-lb tensile strength

End connections Anodized 6061-T6 aluminum alloy extrusion

BOOM, OIL CONTAINMENT, MODEL USS-26, 26" X 55'

ESSM NUMBER BM0760

PHYSICAL CHARACTERISTICS

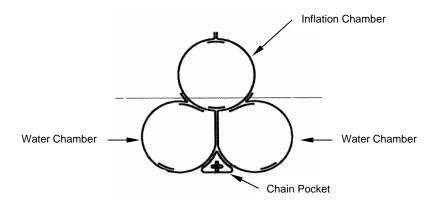
	Operating*
Length	55 ft, 0 in.
Height (overall)	2 ft, 2 in.
Diameter (bladder inflated)	1 ft, 1 1/2 in.
Cube	134 cu ft
Weight	242 lb

^{*}Operating characteristics are for one 55-foot section of boom.

REFERENCES

- 1. Engineered Fabrics Operations and Maintenance Instructions with Illustrated Parts Breakdown.
- 2. Technical Manual for Oil Containment Boom and Boom Mooring Systems, S9597-AC-MMO-010.
- 3. USS-26 Oil Boom Assembly, GPC Sketch SK1027.
- 4. USS-26 Oil Boom Section, GPC Sketch SK1030.

Downloaded from http://www.everyspec.com



Cross Sectional View of USS-26SB Boom



26" x 25' Model USS-26SB Oil Containment Boom BM0765

BOOM, OIL CONTAINMENT, MODEL USS-26SB, 26" X 25"

ESSM NUMBER BM0765

DESCRIPTION

This 26-Inch x 25-Foot Model USS-26SB Oil Containment Boom BM0765 is constructed from the same material as the 26-Inch Oil Containment Boom. It is constructed in 25-foot sections, each section having one top inflation chamber and two bottom water chambers. The end connector is the same as used on the 26-Inch Oil Containment and Open Ocean Boom. The boom is designed to be connected to the end(s) of the 26-Inch Oil Containment Boom to seal a beach or shoreline termination in either the deflection or containment mode. The boom's two bottom water chambers extend 15 1/2 inches below the inflation chambers to seal the boom to the beach or shoreline and not allow any trapped oil to flow underneath the boom. A 5/16-inch galvanized chain runs through a reinforced centered chain pocket located between the two water chambers. This chain acts as a ballast/tension member to keep the skirt in a vertical position. There are five metal lifting handles vulcanized to each inflation section for deployment and recovery of the boom. A highly visible green strip is located at the first and fifth handle position of the inflation chamber for improved visibility of the boom when it is waterborne. The second, third, and fourth handle positions are marked with high visibility orange strips.

SPECIFICATIONS

Manufacturer Engineered Fabrics

USS-26SB Model Inflation pressure 2 - 3 psig 12 1/2" Draft Freeboard 15 1/2" Overall height inflated 26" Overall height deflated 28" Section length 25' Weight per foot 4.36 lb

Flotation chamber:

Diameter 16 1/2" Length 23', 5"

Air valves per chamber 2 (one on each side at opposite ends)

Water chamber:

Diameter 12" Length 23', 5"

Water fill valves per chamber 4 (two on each side at opposite ends)

Materials:

Coated fabric Nitrile/vinyl rubber-impregnated high strength nylon cloth

Color Black with high visibility green and yellow strips
Ballast 5/16" galvanized steel chain, 45,000-lb tensile strength

End connections Anodized 6061-T6 aluminum alloy extrusion

BOOM, OIL CONTAINMENT, MODEL USS-26, 26" X 25'

ESSM NUMBER BM0765

PHYSICAL CHARACTERISTICS

	Operating*
Length	25 ft, 0 in.
Height (overall)	3 ft, 1 1/2 in.
Diameter (bladder inflated)	2 ft, 0 in.
Cube	156 cu ft
Weight	240 lb

^{*}Operating characteristics are for one 25-foot section of boom.

REFERENCES

- 1. Engineered Fabrics Operations and Maintenance Instructions with Illustrated Parts Breakdown.
- 2. Technical Manual for Oil Containment Boom and Boom Mooring Systems, S9597-AC-MMO-010.
- 3. USS-26SB Shoreline Boom Assembly, GPC Sketch SK1034.

Downloaded from http://www.everyspec.com



Oil Mop Kit KT0602

KIT, OIL MOP

ESSM NUMBER KT0602

DESCRIPTION

The Oil Mop Kit KT0602 is a small, portable, oil recovery system designed for small oil spills in protected waters and tributaries. The Oil Mop Kit consists of an Oil Mop Skimmer (SK0730 or alternate) with an oil recovery tank, a 2-Inch Diaphragm Pump PU2109, anchors, buoys, lines, pulleys, and other related hardware necessary to operate and maintain the Oil Mop Kit.

SPECIFICATIONS

Manufacturer ESSM Facility

PHYSICAL CHARACTERISTICS

	Shipping
Length	4 ft, 8 in.
Width	3 ft, 1 in.
Height	3 ft, 7 in.
Cube	52 cu ft
Weight	1445 lb

REFERENCES

- 1. Operations-Maintenance Manual for Crucial Oil Mop C-14D.
- 2. Operations Manual for Yanmar L-A Series Engines, 114250-0003E.
- 3. Yanmar Parts Catalog, 000YOOR3352.



Oil Mop Skimmer SK0730

SKIMMER, OIL MOP, MODEL PWS-4D

ESSM NUMBER SK0730

DESCRIPTION

The Oil Mop Skimmer SK0730 is a portable oil spill recovery machine. It can be carried by two persons and placed on a 55-gallon drum or other suitable container. The unit uses a 4-inch-diameter rope mop, which is rung once during each pass through the unit by two 4-inch-diameter squeeze rollers. The skimmer is capable of recovering 5 to 10 barrels per hour and can be used on permanent installations, such as pits, holding ponds, and storage tanks. The Oil Mop Skimmer SK0730 is driven by a 1-cylinder, 5.5-horsepower, diesel engine with a variable speed control, and can run off its own integral fuel system.

D.

SPECIFICATIONS

	<u>Engine</u>	
Crucial	Manufacturer	Yanmar Diesel
C-14D	Model	L60A
5-10 barrels/hour	Cylinders	1
	Bore/stroke	75mm/62mm
	Displacement	273 cm^3
	Rpm	3600
	Horsepower	4
	Fuel	Diesel
	Fuel source	Integral fuel tank
	Fuel consumption	0.5 gph
	C-14D	Crucial Manufacturer C-14D Model 5-10 barrels/hour Cylinders Bore/stroke Displacement Rpm Horsepower Fuel Fuel source

PHYSICAL CHARACTERISTICS

Operating/Shipping
3 ft, 10 in.
1 ft, 10 in.
2 ft, 3in.
16 cu ft
250 lb

REFERENCES

- 1 Operations-Maintenance Manual for Crucial Oil Mop C-14D.
- 2 Operations Manual for Yanmar L-A Series Engines, 114250-0003E.
- 3 Yanmar Parts Catalog, 000YOOR3352.



2-Inch Diaphragm Pump PU2109

PUMP, DIAPHRAGM, 2-INCH, DIESEL

ESSM NUMBER PU2109

DESCRIPTION

The 2-Inch Diaphragm Pump PU2109 is a self-priming, diesel driven, diaphragm pump that is designed to pump water and transfer viscous materials. The 2-inch pump will operate at a maximum rate of 50 gpm with a maximum discharge pressure of 10 psig. Maximum practical suction lift is 26 feet above the water surface. The pump is skid-mounted with two carrying handles that double as a protective roll cage.

The 2-inch pump is powered by a 1-cylinder, 4.2-horsepower, air-cooled, 4-cycle, diesel engine. The engine has a recoil starter and direct fuel injection with a variable speed control, and operates off its own integral fuel system.

SPECIFICATIONS

	Engine	
CH & E Mfg. Co.	Manufacturer	Yanmar
5457S	Model	L40AE
Diaphragm	Cylinders	1
50 gpm @ 10 psig	Displacement	199 cm^3
	Compression ratio	20:1
	Horsepower	4.2
	Fuel	Diesel
	Fuel source	Integral fuel tank
	Fuel consumption	0.5 gph
	5457S Diaphragm	5457S Model Diaphragm Cylinders 50 gpm @ 10 psig Displacement Compression ratio Horsepower Fuel Fuel source

PHYSICAL CHARACTERISTICS

Operating/Shipping
2 ft, 6 in.
2 ft, 5 in.
2 ft, 3 in.
17 cu ft
150 lb

- 1. Yanmar Service Manual for Model L-A Series Engine.
- 2. Yanmar Operations Manual Model L-A Series Engine.
- 3. Yanmar Diesel Engine Parts Catalog, Pub. No. 00Y00R3981.



15' Inflatable Boat Kit KT0603

KIT, BOAT, INFLATABLE, 15'

ESSM NUMBER KT0603

DESCRIPTION

The 15' Inflatable Boat Kit KT0603 consists of a 72" x 48" x 33" wire mesh container that serves as a storage/shipping container for the two 15' Inflatable Workboats WB0717, along with all the related ancillary equipment that is required to assemble, operate, and maintain them.

SPECIFICATIONS

Manufacturer ESSM Facility

PHYSICAL CHARACTERISTICS

Operating/Shipping	
6 ft, 0 in.	
4 ft, 0 in.	
2 ft, 9 in.	
66 cu ft	
1000 lb	

REFERENCE

None



15' Inflatable Boat WB0717

BOAT, 15' INFLATABLE

ESSM NUMBER WB0717

DESCRIPTION

The 15' Inflatable Boat WB0717 is a lightweight, multipurpose boat. The boat is used to transport people, equipment, and supplies, and for numerous other jobs.

The hull is a U-shaped chamber with conical airtight bulkheads that ensure safety and balance of pressure in the different compartments. An additional airtight compartment is the inflatable keel, which gives the bottom a V-shaped configuration.

The boat is equipped with aluminum floorboards, paddles, running lights, an anchor light, a stern light, a boat hook, and the necessary ancillary gear to operate and maintain it.

SPECIFICATIONS

Manufacturer Zodiac
Model Mark III GR
Type 3470
Max. persons on board 8

Load capacity 2205 lb
Max. horsepower 65

PHYSICAL CHARACTERISTICS

	Shipping
Length	4 ft, 11 in
Width	2 ft, 6 in.
Height	1 ft, 2 in.
Cube	14 cu ft
Weight	144 lb

REFERENCES

1. Maintenance and Assembly Manual for Zodiac Models Mark I, II, III.



500-Gallon Oil Storage Bladder Kit KT0604

KIT, OIL STORAGE BLADDER, 500-GALLON

ESSM NUMBER KT0604

The 500-Gallon Oil Storage Bladder Kit KT0604 consists of a 72" x 48" x 33" wire mesh container that serves as a storage/shipping container for the two 500-Gallon Oil Storage Bladders OB0805 along with all the related ancillary equipment required to assemble, operate, and maintain them.

SPECIFICATIONS

Manufacturer ESSM Facility

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length	6 ft, 0 in.
Width	4 ft, 0 in.
Height	2 ft, 9 in.
Cube	66 cu ft
Weight	1688 lb

REFERENCE

None





500-Gallon Oil Storage Bladder OB0805

BLADDER, OIL STORAGE, 500-GALLON, RUBBER

ESSM NUMBER OB0805

DESCRIPTION

The Oil Storage Bladder OB0805 is a flexible tube designed to carry petroleum products and other liquids lighter in weight than water. The storage bladder's skin is made up of polyester fiber with a Shelterite XR-5 protective outer coating. The storage bladder has 1/4-inch cable bridle for purposes of securing and/or towing.

SPECIFICATIONS

Manufacturer Crucial Inc. Mode TOB-500

Capacity:

100% 500 gallons 85% 425 gallons

Bladder material Polyester w/Shelterite XR-5 coating

Fill/drain 4" with 2" NPT threads

Pressure relief valve:

Manufacturer Survival Engineering Inc.

Model PRV-4P-K Relief setting 1.5 psig Valve reset setting 1.0 psig

PHYSICAL CHARACTERISTICS

<u>Sparming</u>		simpping (manerimal) equipments	
Length	14 ft, 0 in.	Length	5 ft, 3 in.
Width	5 ft, 0 in.	Width	1 ft, 8 in.
Height	6 in. (empty)	Height	1 ft, 5 in.
Cube	35 cu ft (empty)	Cube	12 cu ft
Weight	78 lb (empty)	Weight	118 lb

Shipping (w/ancillary equipment)

REFERENCES

Operating

None



4-Stroke, 15-Hp Outboard Motor MT0015

MOTOR, OUTBOARD, 15-HP, 4-STROKE, SHORT SHAFT

ESSM NUMBER MT0015

DESCRIPTION

The Outboard Motor MT0015 is a 4-stroke, 15-hp outboard motor with a short shaft. The motor has manual starting and uses a 6-gallon auxiliary fuel tank.

SPECIFICATIONS

Manufacturer Mercury Marine

Engine type 4-stroke Power at propeller shaft 15 hp

Max. operating rpm 4500-5500 rpm

Fuel Gasoline with minimum octane rating of 87. Leaded gasoline not

recommended.

Fuel tank capacity 6 gallons, external

Propeller 9 1/2" diameter x 10" pitch

Starting Recoil (pull start)

PHYSICAL CHARACTERISTICS

Operation/Shipping

Length 2 ft, 3 in.
Width 1 ft, 5 in.
Height 3 ft, 10 in.
Cube 12 cu ft
Weight 114 lb

REFERENCES

1. Mercury Outboard Operation, Maintenance, and Warranty Manual.



Mini-Max Harbor Skimmer SK0900

SKIMMER, HARBOR, MINI-MAX

ESSM NUMBER SK0900

DESCRIPTION

The Mini-Max Harbor Skimmer SK0900 is a center float weir skimmer with 100% unobstructed flow into the collection hopper. The recovery rate is up to 220 bbl/h with light to medium viscosity oils. The skimmer incorporates a self-adjusting lip adapter. This adapter adjusts the weir automatically, allowing unattended operation, and it maintains correct weir position relative to the oil-water interface, even in choppy waves. By adjusting weir height to match oil layer thickness, water content is reduced and recovery efficiency increased. The skimmer head may be connected to a self-priming pump or vacuum truck.

SPECIFICATIOINS

Manufacturer Desmi Environmental

Model Mini-Max

Recovery rate 220 bbl/h (dependent on available pump capacity)

Inlet weir 24" diameter

Outlet Hinged bend with swivel joint and 3" camlocking-

type coupling (male)

Materials:

Center float, hopper, and floating collar Polyethylene

Bellows Oil resistant neoprene rubber

Discharge system Stainless steel

Draught 12"

Suction hose 3" diameter corrugated suction hose with 3" camlock

male/female couplings

Discharge hose 3" diameter layflat hose with 3" camlock

female coupling at one end

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length	3 ft, 1 in.
Width	2 ft, 11 in.
Height	1 ft, 3 in.
Cube	12 cu ft
Weight	48 lb

SKIMMER, HARBOR, MINI-MAX

ESSM NUMBER SK0900

REFERENCES

None

Downloaded from http://www.everyspec.com



14' 6" Polyester Roundslings (4) SG0011

ROUNDSLING, POLYESTER, 14' 6"

ESSM NUMBER SL0011

DESCRIPTION

The 14' 6" Polyester Roundsling SL0011 is an endless synthetic sling made from a skein (continuous loop or hank) of polyester yarn covered by a double-wall tubular jacket. The roundsling body can be compared to sling webbing with the tubular jacket face yarns woven without binder yarns; this allows the core yarns to move independently within the jacket.

Four 14' 6" Polyester Roundslings are used for lifting each van to which they are assigned.

SPECIFICATIONS

Sling		<u>Shackle</u>	
Manufacturer	Lift-All	Manufacturer	Crosby
Model	EN240	Part number	G-209-A
Vertical SWL	21,200 lb	Size	1"
Choker SWL	17,000 lb	Working load limit	25,000 lb
Basket SWL	42,400 lb	_	
Overall length	14 ft, 6"		

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length (operating)	14 ft, 6 in.
Cube (coiled for shipping)	4 cu ft
Weight	18 lb

REFERENCES

1. Lift-All 1998 Catalog.

Downloaded from http://www.everyspec.com

DISPERSANT SPRAY UNIT SYSTEM P16800



Dispersant Spray Unit System P16800

DISPERSANT SPRAY UNIT SYSTEM

SYSTEM NUMBER P16800

SYSTEM DESCRIPTION

The Dispersant Spray Unit System P16800 consists of a self-priming, positive displacement pump, prime mover, dispersant flowmeter, relief valve, and interconnecting pipe work, all mounted in an aluminum frame. The dispersant unit is suitable for below or above deck mounting for open sea or inshore duty. The Dispersant Spray Unit System is a portable, lightweight unit that can be quickly and easily mounted on tugs, offshore supply vessels and other pollution control craft responding to marine emergency oil spill situations.

<u>Item</u>	ESSM Number	<u>Qty</u>
1. Dispersant Spray Unit	DU0200	1



Dispersant Spray Unit DU0200

DISPERSANT SPRAY UNIT

ESSM NUMBER DU0200

DESCRIPTION

The Dispersant Spray Unit DU0200 consists of a self-priming, positive displacement pump, prime mover, dispersant flowmeter, relief valve and interconnecting pipe work, all mounted in an aluminum frame. The dispersant unit is suitable for below or above deck mounting for open sea or inshore duty.

SPECIFICATIONS

Dispersant Unit

Manufacturer Action Petroleum

Model AP6M

<u>Engine</u> <u>Pump</u>

Manufacturer Yanmar Manufacturer Multi-pump

Model L100EE-DE15A Model 2P5

Type Diesel Max output 210 gpm @ 117 psi

Horsepower 9.5 Flow rate 75 psi

Fuel Capacity 1.2 gal

PHYSICAL CHARACTERISTICS

Operating/Shipping

 Length
 5 ft, 10 in.

 Width
 2 ft, 8 in.

 Height
 4 ft, 1 in.

 Cube
 64 cu ft

 Weight
 625 lb

REFERENCES

None

THIS PAGE INTENTIONALLY LEFT BLANK.

INLAND SUPPORT SKIMMER SYSTEM P16700



Electric Blower BL0010



Harbor Boom BM0739



Battery Charger CB1705



Machinery Pool CP3000



5-kw GeneratorGE0465



9-kW GeneratorGE0470



Diesel Heater HE0500



Storage Bladder OB0840



Cleaning PoolPC0820



Peristaltic Pump PU0300



Barrel Pump PU2050



3" Pump Diesel PU2108



2" Pump Diesel PU2109



Gas Fire PumpPU2120



VHF RadioRA1740



Storage ShelterSC0090



1 1/2" Skim-Pack SK0600



2" Skim-Pack SK0620



Oil Mop Skimmer SK0734



SK0825&SK0826



Skimmer SK0900



Van VA0800/VA0801



Pressure Washer WA0820



WB0010

Inland Support Skimmer System P16700

INLAND SUPPORT SKIMMER SYSTEM

SYSTEM NUMBER P16700

SYSTEM DESCRIPTION

The Inland Support Skimmer System P16700 is a stand-alone pollution response package for recovering oil from both onshore and inland environments. Such locations provide their own special recovery problems and require specialized equipment. This system includes the following equipment: an oil mop-type skimmer, a drum-type skimmer with a hydraulic power unit, a Desmi Mini-Max harbor skimmer, a portable fire pump, diaphragm pumps, a peristaltic pump, an electric fuel transfer pump, a 1 1/2" and a 2" skim-pak, harbor boom, a small oil bladder, a portable diesel heater, a saltwater pressure washer, 5-kW and 9-kW diesel generators, a storage shelter, a cleaning pool, an oil sampling kit, and protective clothing. These components are stored/shipped in two 20-foot vans.

SYSTEM COMPONENTS

Items	ESSM Number	Qty
1. Van, Inland Support Skimmer System	VA0800	1
HVAC Unit, w/Sleeve	AC2001	1
Blower, Oil Storage Bladder Inflation, Elec.	BL0010	1
Charger, Single Battery, Radio	CB1705	3
Containment Pool, Machinery, 5' x 5' x 12"	CP3000	1
Generator, 5-kW, Dsl, 240-V ac, 1-Phase	GE0465	1
Generator, 9-kW, Dsl, 240-V ac, 1-Phase	GE0470	1
Heater, Diesel	HE0500	1
Bladder, Oil Storage, 1500-Gallon, Rubber	OB0840	1
Pool, Cleaning, 22' x 22' x 15"	PC0820	1
Pump, Peristaltic, 2" Diesel	PU0300	1
Pump, Electric Barrel, 110-V Ac	PU2050	1
Pump, Diaphragm, 3" Diesel	PU2108	1
Pump, Diaphragm, 2" Diesel	PU2109	1
Pump, 1 1/2" Portable Fire, Gas	PU2120	1
Radio, VHF, Walk/Talk, Standard (55-Channel)	RA1740	3
Storage Shelter, Weatherport, 20' x 8' x 7'	SC0090	1
Skim-Pak, 1 1/2", 261 bbls/24 hr Day	SK0600	1
Skim-Pak, 2", 457 bbls/24 hr Day	SK0620	1
Skimmer, Oil Mop, Model C-14D	SK0733*	1
Skimmer, Oil Mop, Model PWS-4D	SK0734	1
Skimmer, Oil, Model-24	SK0825	1
Power Unit, Diesel, Hydraulic, For SK0825	SK0826	1

INLAND SUPPORT SKIMMER SYSTEM

SYSTEM NUMBER P16700

SYSTEM COMPONENTS (Contd)

Items		ESSM Number	Qty
	Skimmer, Harbor, Mini-Max	SK0900	1
	Roundsling, Polyester, 16'	SL0012	4
	Washer, Pressure, Salt Water, Dsl	WA0820	1
	Boat, 9' Inflatable	WB0010	1
2.	Van, Oil Containment Boom, Harbor, Inland Skimmer System	VA0801	1
	Boom, Oil Containment, 24" x 50', Harbor	BM0739	40
3.	Van, Inland Support Skimmer System (Empty)	VA0802 (not shown)	1

^{*}Alternate ESSM configurations are functionally equivalent and are not shown.

Downloaded from http://www.everyspec.com



Inland Support Skimmer System Van VA0800

VAN, INLAND SUPPORT SKIMMER SYSTEM

ESSM NUMBER VA0800

DESCRIPTION

The Inland Support Skimmer System Van VA0800 is used as a storage/shipping container for the components of the Inland Support Skimmer System, which consists of the following equipment: a diesel-fired heater, a 2" peristaltic pump, a 3" diaphragm pump, a 2" diaphragm pump, a 1 1/2" portable fire pump, a 110-volt electric barrel pump, a 2000-gph Skim-Pak, a 4000-gph Skim-Pak, two small skimming units, a hydraulic power pack, a Desmi Mini-Max skimmer, and a saltwater pressure washer.

SPECIFICATIONS

Manufacturer ESSM Facility

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length	20 ft, 0 in.
Width	8 ft, 0 in.
Height	8 ft, 0 in.
Cube	1280 cu ft
Weight	16,940 lb

REFERENCES

None





HVAC Unit w/Sleeve AC2001

HVAC UNIT W/SLEEVE

ESSM NUMBER AC2001

DESCRIPTION

The HVAC Unit w/Sleeve AC2001 is a 12,000-BTU through-the-wall air conditioner and heat pump unit. It is designed to maintain a comfortable ambient atmosphere in the space being conditioned.

SPECIFICATIONS

Manufacturer Frigidaire
Model FAH12EJ2T
BTU 12,000
Volts 230 V ac

PHYSICAL CHACTERISTICS

Operating/Shipping

Length 2 ft, 0 in.
Width 1 ft, 7 in.
Height 1 ft, 3 in.
Cube 4 cu ft
Weight 104 lb

REFERENCES

- 1. Frigidaire Installation Instruction 309000911.
- 2. Frigidaire Owner's Guide 309000823.



Electric Oil Storage Bladder Inflation Blower BL0010

BLOWER, OIL STORAGE BLADDER INFLATION, ELECTRIC

ESSM NUMBER BL0010

DESCRIPTION

The Electric Oil Storage Bladder Inflation Blower BL0010 consists of a 120-volt, 60-cycle motor and blower. The blower is used to inflate and empty the Rubber 1500-Gallon Oil Storage Bladder OB0840 for inspection and repair..

SPECIFICATIONS

Manufacturer Circuiteer
Model Blower-Dryer
Voltage 120/240
Cycles 60
Phase Single

PHYSICAL CHARACTERISTICS

Length 1 ft, 8 in.
Width 9 in.
Height 11 in.
Cube 1.15 cu ft
Weight 22 lb

REFERENCES

None



Radio Single Battery Charger CB1705

CHARGER, SINGLE BATTERY, RADIO

ESSM NUMBER CB1705

DESCRIPTION

The Radio Single Battery Charger CB1705 is designed to charge the radio battery pack. The charger allows for both rapid and trickle charge. The battery charger will operate on either 120 or 220/240 V ac. There are two models of this battery charger available: CSA20 and CSA56. Specifications for each model are given below.

SPECIFICATIONS

Manufacturer	Standard Communications	Standard Communications
Model	CSA20	CSA56
Input power	120/220/240	120/220/240
Rapid charge rate	750 mA/h	500 mA/h
Trickle charge rate	12 mA/h	25 mA/h
Operating temperature range	50° F to 104° F	50° F to 104° F

PHYSICAL CHARACTERISTICS

	Operating/Shipping
Length	6 in.
Width	3 in.
Height	3 in.
Cube	1 cu ft
Weight	2 lb

REFERENCES

- 1. Standard Communications CSA20 Charger Information Pamphlet.
- 2. Standard Communications Instructions for Desk-Top Charger CSA56.



5' x 5' x 12" Machinery Containment Pool CP3000

CONTAINMENT POOL, MACHINERY, 5' x 5' x 12"

ESSM NUMBER CP3000

DESCRIPTION

The Machinery Containment Pool CP3000 is a 5' x 5' x 12" urethane berm. Its is used to provide a means of catching and containing any oil, fuel, or contaminants leaking or spilled from the component that it is supporting.

SPECIFICATIONS

Manufacturer Basic Concepts
Fabric material Cooley Urethane

PHYSICAL CHARACTERISTICS

	<u>Operating</u>	Shipping
Length	5 ft, 0 in.	1 ft, 8 in.
Width	5 ft, 0 in.	1 ft, 8 in.
Height	1 ft, 0 in.	6 in.
Cube	25 cu ft	1.5 cu ft
Weight	34 lb	34 lb

REFERENCES

None



5-kW Diesel Generator GE0465

GENERATOR, 5-kW, DIESEL, 240-V AC, 1-PHASE

ESSM NUMBER GE0465

DESCRIPTION

The 1-phase, 240-V ac, 5-kW Diesel Generator GE0465 is a self-contained unit that is surrounded by a protective steel frame. The generator and engine are mounted on a rugged steel base that has wheels on one end and carrying handles on the other for maneuverability. The 240-volt, single phase, brushless-type ac generator is driven by a single cylinder, 6.6-hp, four-cycle, air-cooled diesel engine.

SPECIFICATIONS

Generator		<u>Engine</u>	
Manufacturer	Gillette Mfg. Inc.	Manufacturer	Yanmar
Type	AC/brushless	Model	L90AE-DEG
Capacity	5 kW	No. of cylinders	1
Frequency	60 Hz @ 3600 rpm	Bore	3.31 in.
Voltage	120/240 V ac	Stroke	2.76 in.
		Displacement	24.8 cu in.
		Horsepower	6.6
		Starting	Electric
		Fuel	Diesel
		Fuel source	1.45-gal. int. tank
		Fuel consumption	0.5 gph

PHYSICAL CHARACTERISTICS

	Operating/Shipping
Length	2 ft, 9 in.
Width	2 ft, 6 in.
Height	2 ft, 3 in.
Cube	16 cu ft
Weight	280 lb

REFERENCES

- 1. Operation Manual for Yanmar Diesel Engine.
- 2. Owner's Manual for Yanmar Brushless Generators.



9-kW Generator GE0470

GENERATOR, 9-kW, DIESEL, 120/240-V AC, 1-PHASE

ESSM NUMBER GE0470

DESCRIPTION

The 1-phase, 120/240-V ac, 9-kW Diesel Generator GE0470 is a self-contained unit that is surrounded by a protective steel frame. The generator and engine are mounted on a rugged steel base that has wheels on one end and carrying handles on the other for maneuverability. The 120- or 240-volt, alternating current, single phase, brushless-type generator is driven by a two-cylinder, 16.3-hp, four-cycle, air-cooled diesel engine.

SPECIFICATIONS

Generator		Engine	
Manufacturer	Gillette Mfg. Inc.	Manufacturer	Deutz
Model	GPD-90E	Model	MD-151
Capacity	9 kW	No. of cylinders	2
Frequency	60 Hz @ 3600 rpm	Horsepower	6.6 @ 3600 rpm
Kilowatts	12.8	Rpm	3600
Voltage	120/240 V ac	Starting	Electric
Amps	71/35.5	Fuel	Diesel
Watts	8500	Fuel source	5-gal. int. fuel tank
Phase	1	Fuel consumption	0.9 gph @ 3/4 load

PHYSICAL CHARACTERISTICS

Length	2 ft, 11 in.
Width	2 ft, 8 in.
Height	2 ft, 8 in.
Cube	21 cu ft
Weight	360 lb

REFERENCES

1. Owner's Manual for Yanmar Brushless Generators

Operating/Shipping



Diesel Heater HE0500

HEATER, DIESEL

ESSM NUMBER HE0500

DESCRIPTION

The Diesel Heater HE0500 is a fully enclosed, self-contained, trailer-mounted, ground-portable unit that burns diesel or jet fuel to produce a forced stream of heated air. The heated air is delivered through flexible ducts to the area to be heated.

SPECIFICATIONS

<u>Engine</u>		<u>Heater</u>	
Manufacturer	Lister Petter	Manufacturer	Aerotech Herman Nelson
Engine number	42 00462 AC10053	Model	BT400-80
Horsepower	6.5 hp	Heated air output:	
Fuel	Diesel	Maximum	400,000 BTUH @ -65°F
Fuel source	35-gal. int. tank	Minimum	100,000 BTUH @ 70°F
		Heated air temp. range:	
		Maximum	280°F (138°C)
		Minimum	150°F (65.5°C)
		Air delivery rate	1500 cfm @ 280°F

PHYSICAL CHARACTERISTICS

Operating/Shipping
5 ft, 9 in.
4 ft, 8 in.
3 ft, 6 in.
94 cu ft
742 lb

REFERENCES

1. Technical Manual, Operations and Maintenance Instruction with Parts Breakdown for the BT400-80 Portable Diesel Heater.



1500-Gallon Rubber Storage Bladder OB0840

BLADDER, OIL STORAGE, 1500-GALLON, RUBBER

ESSM NUMBER OB0840

DESCRIPTION

The Rubber, 1500-Gallon, Oil Storage Bladder OB0840 is a flexible tube designed to carry petroleum products and other liquids lighter in weight than water. The towable storage bladder is intended for use as a storage and transportation bladder for recovered oil in oil spill cleanup operations. The bladder can be towed over waterways to a collection point or to a mooring point for later off-loading. The towable bladder is constructed of a rubberized fabric made from a nylon cloth that has been coated on both sides with a synthetic rubber. When not in use the bladder can be rolled or folded into a compact package for storage/shipping.

SPECIFICATIONS

Manufacturer Engineered Fabrics Corp.

Model 5 cubic meter

Capacity:

 100% full
 1300 gallons

 85% full
 1105 gallons

Bladder material Nylon fabric, synthetic rubber-coated

Fill/drain 1 1/2" camlock fitting Flotation bladder inflation pressure .25 psig to 1.5 psig

PHYSICAL CHARACTERISTICS

	Shipping		<u>Operating</u>
Length	3 ft, 2 in.	Length	10 ft, 1 in.
Width	2 ft, 11 in.	Diameter	5 ft, 2 in.
Height	1 ft, 11 in.	Cube	270 cu ft
Cube	18 cu ft	Weight	230 lb (empty)
Weight	230 lb ft	G	, ,

REFERENCES

1. Engineered Fabrics Corp. Maintenance and Operations Manual, Document No. 150-ED-287.



Cleaning Pool PC0820

POOL, CLEANING (22' X 22' X 15")

ESSM NUMBER PC0820

DESCRIPTION

The Cleaning Pool PC0820 is a polyester container that may be used as an inflatable catch pan, quick tank, or inflatable berm. The pool is designed for equipment cleanup and the decontamination of personnel and equipment involved with hazardous and toxic materials at an oil spill site.

SPECIFICATIONS

Manufacturer	Texas Boom Company, Inc.
Material	Seaman Corporations XR5-6130
Material type	Polyester
Tensile strength grab lb	475/425 lb
Tensile strength strip method	400/350 lb
Tear strength tongue method	125/125 lb
Puncture resistance	350 lb
Hydrostatic resistance	500 psig
Flame resistance	Not consumed in two minutes
Cold crack ASTM D-2136, 1/8" mandrel, 4 hr.	Pass @ -39°F

PHYSICAL CHARACTERISTICS

	<u>Operating</u>	<u>Shipping</u>
Length	22 ft, 0 in.	3 ft, 6 in.
Width	22 ft, 0 in.	3 ft, 3 in.
Height	1 ft, 3 in.	2 ft, 3 in.
Cube	605 cu ft	26 cu ft
Weight	316 lb	316 lb

REFERENCES

1. Texas Boom Company, Inc. Product Specification Sheet.



2" Peristaltic Diesel Pump PU0300

PUMP, PERISTALTIC, 2" DIESEL

ESSM NUMBER PU0300

DESCRIPTION

The 2" Peristaltic Pump PU0300 is a self-priming, diesel driven, hose-type pump designed to pump a wide variety of viscous materials. The 2" pump will pump at a rate of 110 gpm with an open discharge. Maximum practical suction lift is 29 feet above the material surface.

The 2" pump is powered by a 1-cylinder, 5.5-hp, air-cooled, 4-cycle engine. The engine has a recoil starter and direct fuel injection with a variable speed control and is designed to operate off its own integral fuel system.

Engine

SPECIFICATIONS

Pump

			
Manufacturer	National Master Pump Inc.	Manufacturer	Yanmar Diesel
Model	MD-5	Model	L60AE-D
Type	Series M, hose-type	Cylinders	1
Capacity	110 gpm/open-discharge	Bore/stroke	75mm/62mm
Rpm	3600	Displacement	273 cm ³
Effective Daily		Horsepower	5.5
Recovery Rate		Fuel	Diesel
(24-hr day)		Fuel source	Int. fuel tank
Mod 2900	226 bbls	Fuel consumption	0.5 gph
Mod 4200	459 bbls		

PHYSICAL CHARACTERISTICS

	Operating/Shipping	
Length	2 ft, 9 in.	
Width	1 ft, 11 in.	
Height	1 ft, 9 in.	
Cube	10 cu ft	
Weight	190 lb	

PUMP, PERISTALTIC, 2" DIESEL

ESSM NUMBER PU0300

REFERENCES

- 1. Yanmar Service Manual for Model L-A Series Engine.
- 2. Yanmar Operations Manual for L-A Series Engine.
- 3. Yanmar Diesel Engine Parts Catalog, Pub. No. 00Y00R3981.
- 4. National Master Pump Inc. Pamphlet for Series M Peristaltic Pumps.

Downloaded from http://www.everyspec.com



110-V ac Electric Barrel Pump PU2050

PUMP, ELECTRIC BARREL, 110-V AC

ESSM NUMBER PU2050

DESCRIPTION

The 110-V ac, Electric Barrel Pump PU2050 is a small, lightweight, portable diesel fuel transfer pump that is designed to transfer small amounts of diesel fuel oil for diesel-engine driven components of the Inland Water Skimming System P16700. The pump is designed "For Diesel Fuel Only" and is not to be used with gasoline or other combustible fluids.

SPECIFICATIONS

Manufacturer North Star Inc.

Model .389 Voltage 110 V ac Hertz 60

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length 1 ft, 0 in.
Width 1 ft, 8 in.
Height 1 ft, 2 in.
Cube 2 cu ft
Weight 35 lb

REFERENCES

None



3" Diesel Diaphragm Pump PU2108

PUMP, DIAPHRAGM, 3" DIESEL

ESSM NUMBER PU2108

DESCRIPTION

The 3" Pump PU2108 is a self-priming, diesel-driven, diaphragm pump that is designed to pump water and transfer viscous materials. The pump will pump water at a maximum rate of 100 gpm with a maximum discharge pressure of 10 psig. Maximum practical suction lift is 26 feet above the water surface. The pump is skid-mounted with two carrying handles that double as a protective roll cage.

The pump is powered by a 1-cylinder, 4.2 hp, air-cooled, 4-cycle, diesel engine. The engine has a recoil starter and direct fuel injection with a variable speed control and is designed to operate off of its own integral fuel system.

SPECIFICATIONS

<u>Pump</u>		<u>Engine</u>	
Manufacturer Model Type Max. capacity	C H & E Mfg. Co. 5500 Diaphragm 100 gpm @ 10 psig	Manufacturer Model Cylinders Bore/stroke Displacement Compression ratio Rpm Horsepower Fuel Fuel source Fuel consumption	Yanmar Diesel Engine Co. L40AE 1 68 mm/55 mm 199 cm³ 20 : 1 3600 4.2 Diesel Integral fuel tank 0.5 gph
Type	Diaphragm	Cylinders Bore/stroke Displacement Compression ratio Rpm Horsepower Fuel Fuel source	1 68 mm/55 mm 199 cm³ 20 : 1 3600 4.2 Diesel Integral fuel tank

PHYSICAL CHARACTERISTICS

	Operating/Shipping	
Length	3 ft, 0 in.	
Width	2 ft, 5 in.	
Height	2 ft, 3 in.	
Cube	16.5 cu ft	
Weight	150 lb	

PUMP, DIAPHRAGM, 3" DIESEL

ESSM NUMBER PU2108

REFERENCES

- 1. Yanmar Service Manual for Model L-A Series Engine.
- 2. Yanmar Operations Manual, Model L-A Series Engine.
- 3. Yanmar Diesel Engine Parts Catalog, Pub. No. 00Y00R3981.

Downloaded from http://www.everyspec.com



2" Diesel Diaphragm Pump PU2109

PUMP, DIAPHRAGM, 2" DIESEL

ESSM NUMBER PU2109

DESCRIPTION

The 2" Diaphragm Pump PU2109 is a self-priming, diesel driven, diaphragm pump that is designed to pump water and transfer viscous materials. It will pump water at a maximum rate of 50 gpm with a maximum discharge pressure of 10 psig. Maximum practical suction lift is 26 feet above the water surface. The pump is skid-mounted with two carrying handles that double as a protective roll cage.

The 2" pump is powered by a 1-cylinder, 4.2-hp, air-cooled, 4-cycle, diesel engine. The engine has a recoil starter and direct fuel injection with a variable speed control and operates off its own integral fuel system.

SPECIFICATIONS

<u>Pump</u>		Engine	
Manufacturer	CH&EMfg. Co.	Manufacturer	Yanmar Diesel Engine Co.
Model	5457S	Cylinders	1
Type	Diaphragm	Bore/stroke	68 mm/55 mm
Max. capacity	50 gpm @ 10 psig	Displacement	199 cm ³
		Compression ratio	20:1
		Rpm	3600
		Horsepower	4.2
		Fuel	Diesel
		Fuel source	Integral fuel tank
		Fuel consumption	0.5 gph

PHYSICAL CHARACTERISTICS

	Operating/Shipping	
Length	3 ft, 0 in.	
Width	2 ft, 5 in.	
Height	2 ft, 3 in.	
Cube	16.5 cu ft	
Weight	150 lb	

PUMP, DIAPHRAGM, 2" DIESEL

ESSM NUMBER PU2109

REFERENCES

- 1. Yanmar Service Manual for Model L-A Series Engine.
- 2. Yanmar Operations Manual, Model L-A Series Engine.
- 3. Yanmar Diesel Engine Parts Catalog, Pub No. 00Y00R3981.

Downloaded from http://www.everyspec.com



1 1/2" Portable Pump PU2120

PUMP, 1 1/2" PORTABLE FIRE, GAS

ESSM NUMBER PU2120

DESCRIPTION

The 1 1/2" Portable Gas Fire Pump PU2120 is a floatable, self-priming unit. The unit consists of a single stage, centrifugal pump that is close-coupled to an air-cooled, 2-cycle, single-cylinder, gasoline engine. The unit is intended for use on ponds, streams lakes, or any source of water at least 4 inches deep. The pump is to be used as an emergency source of firefighting on inland water oil spill responses.

SPECIFICATIONS

<u>Engine</u>		<u>Pump</u>	
Manufacturer Model Cylinders Bore/stroke Horsepower Displacement Fuel Fuel source Fuel consumption	U.S. Marine 82034 1 2.53 in./1.62 in. 8 8.2 cu in. Gas Int. 6-quart tank 1 pint per hour	Manufacturer Model Capacity Discharge	Hale Pumps 20FP Centrifugal 220 psig 1 1/2 in. NST (NH)
r der comsumption	r pint per nour		

PHYSICAL CHARACTERISTICS

	Operating/Shipping	
Length	11 in.	
Width	9 in.	
Height	1 ft, 0 in.	
Cube	1 cu ft	
Weight	20 lb	

REFERENCES

1. Operating and Maintenance Manual for Hale Fire Pump.



55-Channel Walk/Talk VHF Radio RA1740

RADIO, VHF, WALK/TALK, STANDARD (55-CHANNEL)

ESSM NUMBER RA1740

DESCRIPTION

The Standard 55-Channel Walk/Talk Radio RA1740 is a VHF-FM hand-held transceiver designed for simplex/duplex marine use in the frequency range of 156.025 MHz to 163.275 MHz. The radio requires an input power of 10 V dc for operation, which is supplied by eight rechargeable nickel-cadmium batteries encased in the bottom of the radio. RF power is switchable between 6 watts and 1 watt. Features include: on-off/volume control, squelch control, channel selector, high-low power switch, push-to-talk switch, antenna, external speaker-microphone, a transmit indicator and a battery charger.

SPECIFICATIONS

Manufacturer Standard Model HX220S

Frequency range 156.025 MHz to 163.275 MHz

Number of channels: 55 regular

10 weather 15 reserve

Input voltage 10 V dc

RF output power 6 watts high, 1 watt low

PHYSICAL CHARACTERISTICS

Operating (with antenna installed)

Length 1 ft, 0 in.
Width 2 in.
Height 1 in.
Cube 1 cu ft
Weight 2 lb

REFERENCES

1. HX220S Owner's Manual.



Storage Shelter SC0090

STORAGE SHELTER, WEATHERPORT, 20' X 8' X 7'

ESSM NUMBER SC0090

DESCRIPTION

The 20' x 8' x 7' Weatherport Storage Shelter SC0090 is a lightweight, vinyl, general purpose storage shelter. The storage shelter is set up to provide protection from the elements for the components stored in the Inland Support Skimmer System Van /shipping container, VA0800. The van may then provide workshop space and/or personnel shelter for the cleanup crew at the spill site after all equipment has been removed and stored in the storage shelter.

SPECIFICATIONS

Manufacturer Hansen Weatherport Corporation

Model 820 HW96-025

Material Vinyl

PHYSICAL CHARACTERISTICS

	<u>Operating</u>	Shipping
Length	20 ft, 0 in.	4 ft, 7 in.
Width	8 ft, 0 in.	2 ft, 4 in.
Height	7 ft, 0 in.	8 in.
Cube	1120 cu ft	8 cu ft
Weight	276 lb w/ancillaries	276 lb w/ancillaries

REFERENCES

None



1 1/2" Skim-Pak SK0600

SKIM-PAK, 1 1/2", 261 BBLS/24 HRS

ESSM NUMBER SK0600

DESCRIPTION

The 261 bbls/24 Hr Day 1 1/2" Skim-Pak SK0600 is a complete emergency response system ready for rapid deployment. The unit includes a separator, hose, and control wand. The unit is designed for recovery of oil on lakes, harbors, rivers, streams and calm water applications. The unit is capable of fitting through 24-inch openings and is most productive in areas where access is limited and low volume recovery is planned.

SPECIFICATIONS

Manufacturer Douglas Engineering

Series 2000 Model 2200

Flow 5 to 38 gpm Max. recovery rate 261 bbls/24 hrs

Size 1 1/2 in.
Draft 3 in.
Weir width 8 in.

Type Flow control Material Fiberglass

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length 1 ft, 9 in.
Width 1 ft, 6 in.
Height 0 ft, 7 in.
Cube 2 cu ft
Weight 11 lb

REFERENCES

1. Douglas Engineering Brochure; "The Skimmer That Really Works".



2" Skim-Pak SK0620

SKIM-PAK, 2", 466 BBLS/24 HR DAY

ESSM NUMBER SK0620

DESCRIPTION

The 466 bbls/24 Hr Day, 2" Skim-Pak SK0620 is a complete emergency response system ready for rapid deployment. The unit includes a separator, hose, and control wand. The Skim-Pak unit is used as a general purpose skimmer for oil recovery on lakes, harbors, rivers streams, and calm water applications.

SPECIFICATIONS

Manufacturer Douglas Engineering

 Series
 4000

 Model
 4200

Flow 5 to 68 gpm

Max. recovery rate 466 bbls/24 hr day

Size 2 in.
Draft 5 in.
Weir width 12 in.

Type Flow control Material Fiberglass

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length 2 ft, 3 in.
Width 2 ft, 1 in.
Height 11 in.
Cube 5 cu ft
Weight 18 lb

REFERENCES

1. Douglas Engineering Brochure; "The Skimmer That Really Works".



Oil Mop Skimmer SK0734

SKIMMER, OIL MOP, MODEL PWS-4D

ESSM NUMBER SK0734

DESCRIPTION

The Oil Mop Skimmer SK0734 is a portable oil spill recovery machine. It can be carried by two persons and placed on a 55-gallon drum or other suitable container. The Skimmer SK0734 is capable of recovering 5 to 10 barrels per hour and can be used at a permanent installation, pits, ponds, rivers, lagoons, bays, and offshore. The Oil Mop Skimmer SK0734 is driven by a 1-cylinder, 5.5-horsepower diesel engine with a variable speed control, and can run off its own integral fuel system.

SPECIFICATIONS

<u>Skimmer</u>		Engine	
Manufacturer Model Recovery rate Suitable rope mop	Petro Boom Environmental Inc. PWS-4D 240 bbls/24 hr OCW3-4 (Oil Mop Co.)	Manufacturer Model Cylinders Bore/stroke Displacement Rpm Horsepower Fuel Fuel source Fuel consumption	Yanmar Diesel Engine Co. L60A 1 75mm/62mm 273 cm ³ 3600 5.5 Diesel Integral fuel tank 0.5 gph

PHYSICAL CHARACTERISTICS

	Operating/Shipping
Length	3 ft, 10 in.
Width	1 ft, 10 in.
Height	2 ft, 3in.
Cube	16 cu ft
Weight	250 lbs

REFERENCES

None



Drum-Type Oil Skimmer SK0825 Pictured with Hydraulic Power Unit SK0826

SKIMMER, OIL, MODEL-24

ESSM NUMBER SK0825

DESCRIPTION

The Model-24 Oil Skimmer SK0825 is a portable drum-type oil spill recovery skimmer. The unit can be carried by two persons and placed in position at the spill site. The skimmer is capable of recovering oil at a rate of 70 gpm or 480 bbls per day. The unit is designed to work in any environment to pick up any petroleum product from any body of water. The product is recovered with less than 1% free water.

SPECIFICATIONS

Manufacturer Action Petroleum Spill Recovery Inc.

Model 24 Drum diameter 24 in. Drum length 26 in.

Recover rate:

Gallons per minute 70 Barrels per 24 day 480

PHYSICAL CHARACTERISTICS

Operating/Shipping

 Length
 4 ft, 3 in.

 Width
 4 ft, 10 in.

 Height
 2 ft, 2 in.

 Cube
 45 cu ft

 Weight
 190 lb

REFERENCES

None



Hydraulic Power Unit SK0826 Pictured with Drum-Type Oil Skimmer SK0825

POWER UNIT, DIESEL/HYDRAULIC

ESSM NUMBER SK0826

DESCRIPTION

The Diesel-Driven Hydraulic Power Unit SK0826 is designed to supply hydraulic fluid to the Skimmer SK0825 to operate the skimmer drum and transfer pump. The skimmer drum and transfer pump can be started, stopped, and speed controlled from the control panel of the Hydraulic Power Unit SK0826.

SPECIFICATIONS

<u>Engine</u>	<u>Pump</u>

ManufacturerYanmarManufacturerCassappaModelL60AEStagesTwo

Cylinders 1

Bore/stroke 75mm/62mm
Displacement 273 cm³
Horsepower 5.5
Fuel Diesel

Fuel source .92-gal. int. fuel tank

Fuel consumption .5 gph

PHYSICAL CHARACTERISTICS

	Operating/Shipping	
Length	4 ft, 2 in.	
Width	2 ft, 9 in.	
Height	3 ft 3 in	

Height 3 ft, 3 in Cube 37 cu ft Weight 256 lb

REFERENCES

1. Yanmar Diesel Engine, L-A series.



Harbor Skimmer SK0900

SKIMMER, HARBOR, MINI-MAX

ESSM NUMBER SK0900

DESCRIPTION

The Mini-Max Harbor Skimmer SK0900 is a center float weir skimmer with 100% unobstructed flow into the collection hopper. The recovery rate is up to 220 bbl/h on light to medium viscosity oils. The center float design makes the skimmer the smallest floating weir skimmer on the market when comparing recovery rate with size and weight of the skimmer.

The skimmer incorporates Desmi's self-adjusting lip adapter. This adapter adjusts the weir lip automatically, allowing unattended operation, and it maintains correct weir position relative to the oil/water interface, even in choppy waves. By adjusting weir height to match oil layer thickness, water content is reduced and recovery efficiency increased. The skimmer head may be connected to a self-priming pump or vacuum truck.

SPECIFICATIONS

Manufacturer Desmi Environmental

Model Mini-Max

Recovery rate 220 bbl/h (dependent on available pump capacity)

Inlet weir 24-in. diameter

Outlet Hinged bend with swivel joint and 3 in. camlock-type

coupling (male)

Materials:

Center float hopper and floating collar Polyethylene

Bellows Oil resistant neoprene rubber

Discharge system Stainless steel

Draft 12 in.

Suction hose 3-in diameter corrugated suction hose

Discharge hose 3-in. diameter layflat hose

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length	3 ft, 1 in.
Width	2 ft, 11 in.
Height	1 ft, 3 in.
Cube	12 cu ft
Weight	48 lb

SKIMMER, HARBOR, MINI-MAX

ESSM NUMBER SK0900

REFERENCES

None

Downloaded from http://www.everyspec.com



16' Polyester Roundslings SL0012 (4 per van)

ROUNDSLING, POLYESTER, 16'

ESSM NUMBER SL0012

DESCRIPTION

The 16' Polyester Roundsling SL0012 is an endless synthetic sling made from a skein (continuous loop or hank) of polyester yarn covered by a double-wall tubular jacket. Each sling is fitted with a screw pin shackle. Four 16' Polyester Roundslings are used for lifting the van to which they are assigned.

SPECIFICATIONS

Sling		<u>Shackle</u>	
Manufacturer	Lift-All	Manufacturer	Crosby
Model	EN240	Part number	G-209-A
Vertical SWL	21,200 lb	Size	1 in.
Choker SWL	17,000 lb	Working load limit	25,000 lb
Basket SWL	42,400 lb		
Overall length	16 ft, 0 in.		

PHYSICAL CHARACTERISTICS

Operating/Shipping

Length (operating)	16 ft, 0 in.
Cube (coiled for shipping)	4 cu ft
Weight	18 lb

REFERENCES

1. Lift-All 1998 Catalog.



Salt Water Pressure Washer WA0820

WASHER, PRESSURE, SALT WATER, DIESEL

ESSM NUMBER WA0820

DESCRIPTION

The Diesel Driven, Salt Water Pressure Washer WA0820 is a high pressure, hot water cleaner that is used to clean oil and dirt from equipment by spraying water and cleaner on the equipment at a high pressure and temperature. The pressure washer can use either fresh or salt water as a cleaning medium. The main components of the pressure washer are a high pressure pump, diesel engine, oil-fired burner, and heating coils.

SPECIFICATIONS

<u>Engine</u>	Pressure Washer

Manufacturer	Ruggerini	Manufacturer	KEW Industries
Cooling	Air	Model	KEW Contr Diesel
Cylinders	2	Maximum pump pressure	2610 psig
Bore/stroke	80mm/65mm	Water volume	
Displacement	654 cm ³	@min./max. press.	5.42/20.5 gal.
Horsepower	13	Max. inlet water temp.	95°F/35°
Operating rpm	3600	Temp. range	86-302°F/30-150°C
Compression ratio	19:1	Self-priming max. lift	16.5 ft

Starting Electric
Battery 12 V dc/60Ah/300 amp

Operating

Fuel Diesel

Fuel source:

Engine 4-gal. int. tank
Burner 5-gal. jerry can

Fuel consumption:

Engine .79 gph Burner @140°F 1.98 gph

PHYSICAL CHARACTERISTICS

	Operating
Length	2 ft, 11 in.
Width	3 ft, 10 in.
Height	4 ft, 0 in.
Cube	45 cu ft
Weight	435 lb

WASHER, PRESSURE, SALT WATER, DIESEL

ESSM NUMBER WA0820

REFERENCES

- 1. Owner Manual for KEW Contractor Diesel.
- 2. Use and Maintenance Manual for MD/1-MD/2 Engine.

Downloaded from http://www.everyspec.com



9' Inflatable Boat WB0010

BOAT, 9' INFLATABLE

ESSM NUMBER WB0010

DESCRIPTION

The 9' Inflatable Boat WB0010 is a lightweight, multipurpose boat. The WB0010 inflatable boat is used to transport people, equipment, and supplies. The maximum payload of people, equipment, and supplies combined must not exceed 700 pounds. The 9' Inflatable Boat is used to support skimming operations of the Inland Support Skimmer System.

SPECIFICATIONS

Manufacturer	Avon
Model	AV Redcrest
Type	290579
Max. persons on board	4
Max. load capacity	700 lb
Max. horsepower	4
Number of air chambers	2
II.11 makania1	II. malam/myla

Hull material Hypalon/nylon

PHYSICAL CHARACTERISTICS

	<u>Operating</u>	Shipping
Length	9 ft, 0 in.	3 ft, 3 in.
Width	4 ft, 10 in.	1 ft, 6 in.
Height	15 in.	1 ft, 1 in
Cube	45 cu ft	6 cu ft
Weight	40 lb (boat only)	58 lb

REFERENCES

1. Avon Instruction Manual.



Inland Support Skimmer System Van VA0801

VAN, OIL CNTNMNT BOOM, HARBOR, INLAND SUPPORT SKIMMER SYSTEM

ESSM NUMBER VA0801

DESCRIPTION

The Inland Support Skimmer System Harbor Oil Containment Boom Van VA0801 is used as a storage/shipping container for the 2000 feet of harbor boom required for the Inland Support Skimmer System. One VA0801 van will be used to support two inland skimmer vans VA0800.

SPECIFICATIONS

Manufacturer ESSM Facility

PHYSICAL CHARACTERISTICS

Operating/Shipping

20 ft, 0 in.
8 ft, 0 in.
8 ft, 0 in.
1280 cu ft
9600 lb

REFERENCES

None





24" x 50' Harbor Oil Containment Boom BM0739

BOOM, OIL CONTAINMENT, 24" X 50', HARBOR

ESSM NUMBER BM0739

DESCRIPTION

The 24" x 50' Harbor Oil Containment Boom BM0739 is designed to be used in protected waters such as lakes, ponds, small rivers, and harbors. The primary use of the harbor boom is for deflection and oil containment.

SPECIFICATIONS

Manufacturer	Slickbar
Model	MK-E-24
Fabric	PVC
Draft	16 in.
Freeboard	8 in.

Ballast chain

Type Galvanized Size 5/16"
Tensile strength 8600 lb

Tow speed

Straight line 10 kts
Sweep mode 1 kt
Operating environment Protected

PHYSICAL CHARACTERISTICS

	Shipping
Length	5 ft, 0 in.
Width	3 ft, 8 in.
Height	3 ft, 8 in.
Cube	200 cu ft
Weight	36 lb

REFERENCES

None

Downloaded from http://www.everyspec.com

Index

Symbols

1/2" Hydraulic Drill DR0010	7-244Q, 7-301
1" Diaphragm Pump PU2103	7-34M
2" Diaphragm Pump PU2105	
2" Centrifugal Pump PU2110	
2" Diaphragm Pump PU2109	
2" Hydraulic Submersible Pump PU0830	
2" Hydraulic Trash and Slurry Pump PU0835	
2" Peristaltic Pump PU0300	
2 1/2" Diesel Pump PU2130	
2" to 6" Submersible Hydraulic Pump System P17200	
2" to 6" Hydraulic Submersible Pumps Ancillary Pallet PU0832	
3" Pump PU2108	
5-kW Diesel Generator GE0465	
6" Hydraulic Submersible Pump PU0280	
6", High Capacity Hydraulic, Submersible Pump, PU0310	
6" Submersible Hydraulic Pump System P17100	
9' Inflatable Boat WB0010	7-258R 7-732I
9-kW Diesel Generator GE0470.	
12-kW, Diesel Generator GE0406.	
15' Inflatable Boat WB0717	
15-Hp Outboard Motor MT0015	
15-Hp Outboard Motor MT0016	
15-Hp Outboard Motor MT0940	
16' Inflatable Boat WB0716	
18' Boom Tending Boat (BTB) WB0942	
19' Inflatable Boat WB0730	
19' Inflatable Boat Shipping Container Van VA2260	
2.5-kW Gas Generator GE0425	
22' Center Console Boat w/Twin 120-Hp OB Motors WB0950	
22' Command Boat WB0941	
22.5' Rigid Hull Boat WB0740	
23' Inflatable Boat WB0732	
23' Inflatable Boat Shipping Container (10') Van VA2264	
23' Inflatable Boat Shipping Container (8') Van VA2265	
23.1k-Gallon Spill Recovery Bladder OB0810	
24' Rigid Hull Boat WB0736	
24' Boom Handling Boat (BHB) WB0722A	
24' Modular Barge BA0005	
25-kW Diesel Generator GE0440.	
26k-Gallon Spill Recovery Bladder OB0809	
50k-Gallon Spill Recovery Bladder OB0820	
26/50k-Gallon Spill Recovery Bladders P14300	
30-kW, Diesel Generator GE0450.	
30-kW, Diesel Generator GE0460.	
32' Rigid Hull Inflatable Boat WB0750	
35-Hp Outboard Motor MT0944	
36' Diesel Workboat/Hovercraft WB0975	
4" Hydraulic Submersible Pump PU0305	
40' Command Trailer Van VA0718	
40' Command Trailer Van VA0/18 40' Command Trailer Van VA0/19	
40 Command Hangi Van VAU/17	/-32/

40-Hp Outboard Motor MT0040	7-368K
40-kW Diesel Generator GE0550	
42" x 50' Sections of Fire Boom BM0730	
50-Hp Outboard Motor MT0938	
50-Hp Outboard Motor MT0939	
6.2-kW Diesel Generator GE0430	
70-Hp Outboard Motor MT0045	
70-Hp Outboard Motor MT0942	7-108E
84" x 60" x 7" USS-42/USS-42HB Boom Storage Pallet BM0876	
84" x 54" x 7" FUG Boom Storage Pallet BM0877	
90-Hp Outboard Motor MT0050	
90-Hp Outboard Motor MT0948	
115-Hp Outboard Motor MT0943	
120-Hp Outboard Motor MT0946	
130-Hp Outboard Motor MT0130	
136k-Gallon Oil Storage Bladder P14100	
136k-Gallon Oil Storage Bladder Type L OB0800	
290k-Gallon Oil Storage Bladder P14200	
290k-Gallon Oil Storage Bladder Type O OB0830	
350-Gallon Storage Tank TK0040	
400-Lb Buoyancy Mooring Buoy BU0010	
500-Lb Stato Anchor AN0152	
1000-Lb Stato Anchor AN0153	
1750-Watt Inverter IN0001	
2000-Series, 1 1/2" Skim-Pak SK0600	
2" Skim-Pak SK0620	
5000# Buoyancy Mooring Buoy BU0140	
5000# Hydraulic Winch WN0280	
6000# Hydraulic Winch WN0281	
	,
A	
Accessory Kit, for PH1731 Sat Phone PH1732	
Air Compressor, 14-Cfm, Dsl AC0500	7-34I
Air Compressor, 175-Cfm, Ingersoll-Rand AC0330	
Air Compressor, 19-Cfm, Diesel AC0501	7-151, 7-172, 7-34D, 7-531, 7-564E
Air Compressor, 19-Cfm, Diesel AC0505	7-113
Air Compressor, 300-Cfm, Hydraulic AC0700	7-548Q
Air Pack Breathing Apparatus BA0021	7-257
Alarm, Personal, Passport AL0200	7-255
Anchor, Stato, 500-Lb, Stato AN0152	7-44C
Anchor, Stato, 1000-Lb, Stato AN0153	7-44E
Ancillary Basket for Steam Generator System SG0012	7-610K
Ancillary KiTfor SK0030 Skimmer SK0032	7-206AQ
Ancillary Safety Kit PU2131	
Ancillary Set for PU0280 Pump PU0281	7-225
Ancillary Set for PU0851 Pump PU0854	
Ancillary Set for SK0723 Skimmer SK0724	
Arctic Oil Recovery System P16500	
Arctic Oil Recovery System Van (Van 1 of 2) VA1650	
Arctic Oil Recovery System Van (Van 1 of 2) VA1651	7-206Q
ATV, Beach Transfer VE2110	7-436A

В

Dorral Duma DI 12050	7 705
Barrel Pump PU2050 Barge, Modular, 24' x 16' x 4' BA0005	
Beach Transfer All-Terrain Vehicle (ATV) VE2110	
Beach Transfer Farm-Type Tractor TT2009	
Beach Transfer System P01100	
Beach Transfer System Van VA2113	
Beach Transfer Trailer TR2114	
Berthing Van VA0734	
Bladder, Oil Storage, 136k-Gallon, Type L OB0800	
Bladder, Oil Storage, 1500-Gallon OB0840	
Bladder, Oil Storage, 290k-Gallon, Type O OB0830	
Bladder, Oil Storage, 500-Gallon OB0805	
Bladder Repair Kit OB0801	
Bladder, Spill Recovery, 23.1k-Gallon OB0810	
Bladder, Spill Recovery, 26k-Gallon OB0809	
Bladder, Spill Recovery, 50k-Gallon OB0820	
Block, Snatch, 6" BK2015	
Block, Snatch, 6" BK2016	7-368A
Blower, Electric, Portable BL0403	7-172E, 7-553, 7-559
Blower, Oil Storage Bladder Inflation BL0010	7-685
Blower, Portable, Gas Powered, 2-Cycle BL0025	7-204AG
Boarding Kit, Oil Tanker BO0543	7-258C
Boarding Kit P02100	7-251
Boat, 15', Inflatable WB0717	
Boat, 16' Inflatable WB0716	
Boat, 18' Boom Tending WB0942	
Boat, 19', Inflatable, Mk V HD WB0730	
Boat, 22' C.C. W/Twin 120-Hp OB Motors WB0950	
Boat, 22' Command WB0941	
Boat, 22.5' Rigid Hull WB0740	
Boat, 23', Inflatable, Mk VI HD WB0732	
Boat, 24', Boom Handling WB0722A	
Boat, 24' Rigid Hull, Inflatable WB0736	
Boat, 32' Rigid Hull, Inflatable WB0750	
Boat, 9', Inflatable WB0010	
Bobcat Loader Vehicle, Model 863 VE0040	
Boom Deployment Tray BM0731	
Boom, Fire, 42" x 50' Sections BM0730	
Boom Handling Boat (BHB) Trailer TR0944	
Boom Handling Boat P03100	
Boom Mooring System Deep Water Extension P04200	
Boom Mooring System, Deep Water Extension MS0020	
Boom Mooring System MS0009	
Boom Mooring System MS0011	
Boom Mooring System P04100	
Boom, Oil Containment, 60" x 110", Urethane BM0819	
Boom, Oil Containment BM0760	
Boom, Oil Containment, Harbor BM0739	
Boom, Oil Containment, Model FUG BM0735	
Boom, Oil Containment, Model USS-42 BM0738	
Boom, Oil Containment, Model USS-42 SB BM0736	
Boom, Oil Containment, Model USS-42 HB BM0737	
Boom, Oil Containment, Model USS-26SB BM0765	
Boom Tending Boat (BTB) Trailer TR0936	7-84

Boom Tending Boat (Inflatable) P03300	7-85
Boom Tending Boat (Rigid) P03200	
Breathing Apparatus, Air Pack BA0021	
Bridle, Wire Rope, 5/8" ST0012	
Buoy, Crown, 350-Lb Buoyancy BU0320.	
Buoy, Marker, Dracone BUOO23	
Buoy, Mooring, 400-Lb Buoyancy BU0010	7-215
Buoy, Mooring, 5000-Lb Buoyancy BU0140	
C	
Capstan, Hydraulic, Vertical Axis CP0011	7.56/1
Carpenter Stopper ST0010	
CB Marine Mobile Radio RA1709	
Chain Saw, 36" CS0010	
Chain, Stud Link CH1093.	
Charger, Single Battery, Radio CB1705	
Class V 36-Foot Sorbent Belt Oil Skimmer SK0721	
Class XI Skimmer System Van VA0924	
Class XI Skimmer System Van VA0925	
Class XI Sorbent Belt Skimmer SK0924	
Clayton Steam Generator SG0731	
Cleaner, Steam CS0507	
Cleaning Pool PC0814	
Cleaning Pool, 10' x 10' x 12" PC0815	
Cleaning Pool, 12' x 12' PC0816	
Cleaning Pool PC0820	
Cleaning Pool PC0830	
Cleaning System Van P19200	
Cleaning Van VA2119A/B	
Command Boat Trailer TR0951	
Command Trailer P19400	7-321
Command Van P19300	7-345
Command Van VA0727A/B	7-351
Communications System (Shipboard) P05200	7-411
Communications System (Range Enhancing) P05300.	
Communications System (Land-Based) P05100	
Containment Pool, 10' x 6' x 12" CP30107-183, 7-204I, 7-204AK, 7-2	206U, 7-244A, 7-244O, 7-250E, 7-299,
7-383, 7-548S, 7-609	
Containment Pool, 10' x 20' x 12" CP3040	7-579
Containment Pool, 14' x 14'x 18" CP3025	
Containment Pool, 16' x 6' x 18" CP3030	
Containment Pool, 5' x 5' x 12" CP3000	206S, 7-229, 7-244AY, 7-250C, 7-331,
7-445, 7-537, 7-607, 7-627, 7-689	
Control Block for 2" Hydraulic Pumps PU0831	
Control Block for 4" Hydraulic Pump PU0305, Primary PU0306	
Control Block for 4" Hydraulic Pump PU0305, Secondary PU0307	
Control Block for 6" Hydraulic Pump PU0310 PU0311	
Cord, Power Supply CD0010	
Cradle, 24' Boom Handling Boat BC0722	
Cradle, 24' Rigid Hull Inflatable Boat BC0736	
Cradle, 22.5' Rigid Hull Inflatable Boat BC0740	
Crane, Portable, Hydraulic CR0040	
Crane, Portable, Marine CR0010	
Crane Portable Marine CR0015	7-206W

D

Debris Handling System P20400	7-565
Debris Handling System Van VA2400.	
Deep Water Extension, Boom Mooring System MS0020	
Desmi Mini-Max Harbor Skimmer SK0900	
Desmi Termite Skimmer SK0905	7-587
Destroil Hydraulic Pressure Washer WA0808	7-203
Destroil Oil Skimmer Van VA0930	7-179
Destroil Weir-Type Oil Skimmer SK0800	
Diesel Heater HE0500	7-695
Diesel Hydraulic Power Unit SK080	7-193
Dispersant Spray Unit System P16800	7-653
Dispersant Spray Unit DU0200	
DOP-160 Pump, PU0840	
Dracone Marker Buoy BU0023	
Drill, Hydraulic, 1/2" DR0010	
Drill Press, Hydraulic, Underwater, 1/2" DR0011	7-244AA
${f E}$	
Electrical Distribution Panel GE0001	7-385
Engine, GM 4-53, (Class V Skimmer Spare) EN0015	
Equipment Basket, FUG Boom BM0880	
Equipment Basket, USS-42 & USS-42HB Boom BM0881	
${f F}$	
Farm-Type Tractor TT2009	7-435
Fast Erect Tank TK0020.	7-464I
Fender, Ship, 10' x 50' FN2071	7-309
Fender, Ship, 24" x 36", Foam, Navy-Type FN2028	
Fender, Ship, Low Pressure FN2072	
Fire Boom System P20600	
Fire Monitor, Apollo FM0010	
Fire Pump PU2120	
Firefighting System Van VA0520	
Flare Type Ignitor IG0010	
Floating Hose, 6" x 100', Nitrol SP HS0822	
Floating Hose Reel RL0031	
Floating Hose System P08100	
Floating Hose System Van (Van 1 of 4) VA2150	
Floating Hose System Van (Van 2 of 4) VA2151	
Floating Hose System Van (Van 4 of 4) VA2132	
Flow Control Block PU0282	
Fluke 87 Multimeter SE0853	
FUG Boom Equipment Basket BM0880	
Furuno MKII LCD Radar RD0001	
Furuno, Model 1730/1731 Radar RD0010	
G	
Generator, 12-kW, Dsl, GE0406	7 222
Generator, 2.5-kW, Gas GE0425	
Generator, 25-kW, Diesel GE0440.	
Generator, 23-KW, Dieser GLOTTO	,-010A

		7-377
		7-327, 7-381, 7-605
		7-691
		7-5640
		7-516A
		7-516G
		7-503
		7-509
	C 11	7-513
		7-483
		7-302A
		H 7.722M
		7-732M
	Heating Coil, Submersible SG0011	
		7-695
1		
	Heavy Oil Transfer Pump PU0851	
	High Speed Current Buster Skimme SK0050	
		7-204AE
	Hook, Quick Release HK2000	
	Hook, Release-A-Matic HK2001	
1	Hose, 6" x 100', Floating, Nitrol SP HS0822	
		7-453
		7-455
	Hose, Hyd, 3/4" x 200' HS0137	
		7-244C
		7-187
		7-517
	Hot Tap, Lightweight, Heavy Duty HT0006	
	Hot Tap Kit, Lightweight, Heavy Duty HT0007	
	Hot Tap Machine MC0110	, , , , , , , , , , , , , , , , ,
	Hot Tap System P10100	7-287
		7-293
		295, 7-353, 7-365, 7-379, 7-392A, 7-420C, 7-535, 7-573, 7-683
	Hydraulic Drill, 1/2" DR0010	
_	Hydraulic Flow Control Block PU0282	7-241
	Hydraulic Flow Control Block For PU0851 Pump PU0852	7-250K
	Hydraulic Flowmeter For PU0851 Pump PU0853	7-250M
	Hydraulic Grinder TL1000	7-302Q
	Hydraulic Hose Reel Assembly PU0283	
	Hydraulic Power Unit (HPU) Mod 2 PW0108	
	Hydraulic Power Unit (HPU) Mod 6 PW0045	
	Hydraulic Power Unit (HPU) Mod 8 PW0200B	
	Hydraulic Power Unit, Model HT50DQV PW0050	
		7-206AC
		7-204M
	Hydraulia Dawar Hait CV 0026	7.720

W. L. W. D	5 14 (1 5 1 (0 5 001 5 004D) 5 5 (414
Hydraulic Pressure Washer WA0700	
Hydraulic Winch, 5000-Lb WN0280	
Hydraulic Winch, 6000-Lb WN0281	1-239
I	
Ignitor, Flare Type IG0010	7 127
Incinerator System P20500	
Inflatable Boom Tending Boat System P03300	
Inland Support Skimmer System P16700	
Inland Support Skimmer System Van VA0800	
Inland Support Skimmer System Van VA0000	
Inverter, 1750-Watt IN0001	
Iridium Satellite Phone PH1730	
Iridium Satellite Phone PH1731	
Trainin Swellie Thore Titty 51	, 1101
K	
Kit, Boat, Inflatable, 15' KT0603	7-652E
Kit, Drill Press, Hydraulic, Underwater KT0050	
Kit, Oil Containment Boom, Model USS-26 KT0601	
Kit, Oil Mop Mark I-4D KT0602	
Kit, Oil Storage Bladder, 500-Gallon KT0604	
Kit, Skim Pak KT0600	
Kit, Spare Parts (for Hydraulic Power Unit PW0045) PW0046	
	,
L	
Lightweight Heavy Duty Hot Tap HT0006	
Lightweight Heavy Duty Hot Tap Kit HT0007	
Lori Mini Skimmer SK0020	
Low Pressure Fender System P06200	
Low Pressure Fender System Van VA2221	7-307
Low Pressure Pneumatic Ship Fender FN2072	7-314
M	
Machine, Hot Tap MC0110	
Marine Mobile Citizens Band (CB) Radio RA1709	
Marine Mobile Radio RA1830	
Marine Mobile Radio RA1831	6A, 7-161, 7-335, 7-356C, 7-420E, 7-488, 7-501,
7-502I, 7-524C, 7-566M	7.4001/
Maritime Mini Sea Pak-M Phone PH0940	
Material Transfer System P11100	
Mini-Max Harbor Skimmer SK0900	
Minimax 12 Skimmer SK0055	
Mod 8 Hydraulic Power Unit PW0200B	
Mod 9 Hydraulic Power Unit (HPU) PW0020	
Modular Barge 24' x 16' x 4' BA0005	
Mooring Buoy BU0010	
Mooring Buoy BU0140	
Mooring System, Boom W/1000-Lb Anchor MS0011	
Mooring System, Boom W/500-Lb Anchor MS0009	
Motor, Outboard, 15-Hp, 4-Stroke MT0015	
Motor, Outboard, 15-Hp MT0016	
Motor, Outboard, 15-Hp, MT0940	
Motor, Outboard, 35-Hp MT0944	
, 	

Motor, Outboard, 40-Hp MT0040	7-368K
Motor, Outboard, 50-Hp, 2-Stroke MT0939	
Motor, Outboard, 50-Hp, 4-Stroke MT0938	
Motor, Outboard, 70-HP, 4-Stroke MT0045	
Motor, Outboard, 70-Hp MT0942	
Motor, Outboard, 90-Hp MT0948	
Motor, Outboard, 90-Hp MT0050	
Motor, Outboard, 115-Hp MT0943	
Motor, Outboard, 120-Hp MT0946	
Motor, Outboard, 130-Hp MT0130	
Moving Inclined Belt Skimmer SK0030.	
Multimeter, True-RMS, Fluke 87 SE0853	
Truthineer, True 1915, Flance of SE0035	7 302111
N	
Navy-Type, 24" x 36", Foam, Ship Fender FN2028	7-368C.2
Nitrol SP Floating Hose, 6" x 100" HS0822	7-548M. 7-548W
Noise Reduction Headset RA1732	
О	
Oil Bladder Transfer System P20300	
Oil Bladder Transfer System Van VA2290	
Oil Containment Boom, Model FUG BM0735	
Oil Containment Boom, Model USS-42 SB BM0736	
Oil Containment Boom, Model USS-42HB BM0737	
Oil Containment Boom, Model USS-42 BM0738	
Oil Containment Boom, Model USS-26SB BM0765	
Oil Containment Boom BM0760	
Oil Containment Boom BM0819	
Oil Containment Boom Kit KT0601	
Oil Containment Boom, Harbor BM0739	
Oil Containment Boom (FUG Boom) Van VA0720	
Oil Containment Boom System P19100	
Oil Containment Boom Van (USS-42HB Boom) VA0737	
Oil Containment Boom Van (USS-42 Boom) VA0738	
Oil Containment Boom Van VA0801	
Oil Mop Kit KT0602	
Oil Mop Skimmer SK0730	
Oil Mop Skimmer SK0734	
Oil Skimmer SK0711	
Oil Skimmer SK0825	
Oil Storage Bladder OB0800	
Oil Storage Bladder OB0805	
Oil Storage Bladder OB0830	
Oil Storage Bladder OB0840	
Oil Storage Bladder Inflation Blower BL0010	
Oil Tanker Boarding Kit BO0543	
Oil Water Separator System P12100	
Oil/Water Separator Heater SR0820	
Oil/Water Separator SR0815	
OSFS Rigging Basket FF0501	
Outrigger Assembly OA0010	
Over-the-Air Video Kit GP0111	7-516C
P	
Pallet, Ancillary, 2" to 6" Hydraulic Submersible Pumps PU0832	7-244 \$ 11
1 miles, 1 million j, 2 to 0 million in unipo i 00002	, 24410

Pallet, Storage, Boom USS-26 and USS-26SB BM0875	7-641
Pallet, Storage, Boom USS-42/USS-42HB BM0876	
Pallet, Storage, Boom, Fug BM0877	
Passport Personal Alarm AL0200	
Personnel Bunk Van P19500	
Personnel Bunk Van VA0734	7-391
Personnel Transfer Boats P19900.	
Phone, Portable Satcom System PH0923	7-401
Phone, Portable Satcom System Planet 1 #1001 PH0930	
Phone, Portable Satcom System PH0924	
Phone, Satellite, Iridium PH1730	
Phone, Satellite, Iridium PH1730	
Phone, Sea Pak-M, Maritime Mini PH0940	
Phone, Shipboard Satcom System PH0920	7-415
Phone, Shipboard Satcom System PH0922	
Phone, Solsat 1, Ruggedized Communication System PH0935	7-410C
Pig Launcher (for Floating Hose System P08100) HC0005	7-541
Pig Catcher HC0004	7-457
Pig Catcher (for Floating Hose System P08100) HC0006	7-543
Planet 1, Portable Satcom Phone System PH0930	7-409
Pneumatic Fender System (10' x 50') P06100	7-303
Pneumatic Ship Fender FN2071	7-309
Pool, Cleaning, 12' x 12' PC0816	7-545
Pool, Cleaning, 20' x 60' PC0814	7-459
Pool, Cleaning, 30' x 70' PC0830	7-463
Pool Cleaning, 30' x 70' PC0831	
Pool, Cleaning PC0820	7-699
Portable Fire Monitor FM0010	
Portable Firefighting System P07100	
Portable Marine Crane CR0015	7-206W
Portable Knuckle Boom Crane CR0040	
Portable Satcom System Phone PH0923	7-401
Portable Satcom System Phone PH0924	7-405
Power Pack, Model LPP 6HA/C75 PW0055	
Power Pack Model LPP 7HA/75C PW0056	
Power Supply Cord, 50' CD0010	
Power Unit, Dsl/Hyd PW0924	
Power Unit, Diesel/Hydraulic SK0826	
Power Unit, Hydraulic, Diesel SK0801	
Power Unit, Hydraulic, Mod 2 PW0108	
Power Unit, Hydraulic, Mod 6, Diesel PW0045	
Power Unit, Hydraulic (HPU) Mod 8 PW0200B	
Power Unit, Hydraulic, Mod 9 PW0020	
Power Unit, Hydraulic, Model HT50DQV PW0050	•
Power Unit, Hydraulic, Model HT30DQV PW0051	
Pump, 1 1/2", Portable Fire, Gas PU2120	
Pump, Centrifugal, 2" Diesel PU2110	
Pump, Diaphragm, 1", Pneumatic PU2103	
Pump, Diaphragm, 2", Pneumatic PU2105	
Pump, Diaphragm, 2", Diesel PU2109	7-652C, 7-711
Pump, Diaphragm, 3", Diesel PU2108	
Pump, DOP-160 PU0840	
Pump, Electric, Barrel, 110 V ac PU2050	
Pump, Submersible, 2" Hydraulic PU0830	
Pump, Trash and Slurry, 2" Hydraulic PU0835	
Pump, Fire, 2 1/2", Diesel PU2130	7-129

Pump, Heavy Oil, Transfer (DOP-250) PU0851	7-244BQ, 7-250G, 7-564W
Pump, Peristaltic, 2", Diesel PU0300	7-204AO, 7-244AE, 7-633, 7-701
Pump Set, Centrifugal, Diesel FF0500	7-265
Pump, Submersible, 4", Hydraulic PU0305	
Pump, Submersible, 6", Hyd, (POL) PU0280	
Pump, Submersible, 6", Hydraulic (High Capacity) PU0310	
Q	
	7.2005
Quick Release Hook HK2000	/-368E
R	
Rack System for SK0711 SK0712	7-171
Radar, Furuno, LCD, MKII RD0010	7-489
Radar, Model 1730/1731 RD0001	
Radio, CB, Marine Mobile RA1709	
Radio, VHF, Marine Mobile RA18317-69, 7-99, 7-108	I, 7-146A, 7-161, 7-335, 7-356C, 7-420E, 7-489, 7-501,
7-502I, 7-524C, 7-566M	
Radio, VHF, Marine Mobile, Voyager (76-Channel) RA18307-487, 7-501\	
Radio, VHF, Walk/Talk, Standard (55-Channel) RA1740	7_717
Radio, VHF, Walkie-Talkie RA1731	
Radio/Repeater, Marine, VHF, Portable RA0905	
Rapid Deployment Skimmer System P16100	
Rapid Personnel/Equipment Transfer System P20000	
Reel, Floating Hose RL0031	
Reel, Hose, Powered Turntable RL0030	
Reel, Skimmer, High Speed Current Buster RL0051	
Release-A-Matic Hook HK2001	
Remote Operated Vehicle (ROV) Lightering System P10200	
Repair Kit, Bladder OB0801	
Rigging Basket, OSFS FF0501	
Rigging Box for CR0040 Crane CR0041	
Rigging Van P19600	
Rigging Van VA0010	
RO-VAC MK II Skimmer SK0980	
Roller, Oil Boom RO0501	
Rope Mop Skimmer SK0723	
Rope Mop Skimmer System P16600	
Roundsling Bridle, Polyester SL0351	
Roundsling Bridle, Polyester SL0382	
Roundsling Bridle, Polyester SL0384	
Roundsling Bridle, Polyester SL0386	
Roundsling Bridle, Polyester SL0399	
Roundsling Bridle, Polyester, 4-Leg, 11' 6" SL0350	
Roundsling, Polyester, 14' 6" SL0011	
Roundsling, Polyester, 16' SL0012	7-204E, 7-204Q, 7-204BO, 7-206I, 7-206BG, 7-244CE
S	
Salt Water Pressure Washer WA0820	
Salvage Support Skimmer System P16200	
Salvage Support Skimmer System Van VA2220	
Seamop 3060 Skimmer SK0970	
Separator, Oil/Water, Gravity Plate, 100-Gpm SR0815	

Shipboard Berthing Van VA0735	7-392K
Shipboard Satcom Phone System PH0920	
Shipboard Satcom Phone System PH0922	7-419
Shipping Container Van 19' Inflatable Boat VA2260	7-89
Shipping Container (10') Van, 23' Inflatable Boat VA2264	7-105
Shipping Container (8') Van, 23' Inflatable Boat VA2265	7-107
Shop Van System P19700	7-369
Skim Pak System Kit KT0600	7-631
Skim Pak, 1 1/2", SK0600	7-635, 7-721
Skim Pak, 2", SK0620	7-204BM, 7-581, 7-637, 7-723
Skimmer, Harbor, Desmi Mini-Max SK0900	7-583, 7-6520, 7-731
Skimmer, Mini, Lori SK0020	7-206AK
Skimmer, Minimax 12 SK0055	
Skimmer, High Speed Current Buster SK0050	7-204BC
Skimmer, Moving Inclined Belt SK0030	
Skimmer, Oil, Destroil, Weir-Type SK0800	7-189
Skimmer, Oil, Model-24 SK0825	
Skimmer, Oil Mop, Model PWS-4D SK0730	7-652A
Skimmer, Oil Mop, Model PWS-4D SK0734	
Skimmer, Oil, Sorbent Belt, 36' Vessel (Class V) SK0721	
Skimmer, Oil, Sorbent Belt, Class XI SK0924	
Skimmer, Oil, Sorbent Belt SK0711	
Skimmer, RO-VAC MK II SK0980	
Skimmer, Rope Mop, 36" SK0723	
Skimmer, Seamop 3060 SK0970	
Skimmer, Termite SK0905	
Skimmer, Weir, LWS-50 SK0056	
SOLAS Shipboard Personnel Bunk Van P19550	
Solsat 1 Ruggedized Communication Phone System PH0935	
Spare Parts Kit, For PW0020 Power Unit PW0021	
Spare Parts Kit For PW0045 Power Unit PW0046	
Spare Parts Kit, For PW00200 Power Unit PW0206	
Spare Parts Kit for Seamop Skimmer, Model 3060 SK0971	
Spill Recovery Bladder, 23.1k-Gallon OB0810	
Spill Recovery Bladder, 26k-Gallon OB0809	
Spill Recovery Bladder, 50k-Gallon OB0820	
Standard Walk/Talk VHF Radio RA1740	
Steam Cleaner CS0507	
Steam Generator SG0010	
Steam Generator, Clayton SG0731	
Steam Generator System P12200	
Steam Generator System Van VA2500	
Stopper, Carpenter ST0010	
Storage Shelter SC0090	
Stud Gun GU0120	
Submersible Heating Coil SG0011	
Submersible Hydraulic Pumping System P17100	
Supply Van System P19800	
Supply Van VA0740	
Synflex Hydraulic Hose w/Reel Assembly HS0137	
T	, 3020
Tank,Diesel Fuel, 120-Gallon TK0045	7-244CG
Tank, Fast Erect, 2500-Gallon TK0020	
Tank, Storage, 350-Gallon TK0040	
Tape, Gauging TA0010	
1 , 5 5	

Tension Meter SE2108	7-204AA
Termite Skimmer SK0905	
Three Tank Vacuum System VS0010	
Tool Box, 2" to 6" Submersible Hydraulic Pump System TL0023	
Tool Box, 18' Boom Tending Boat TL0050	7-84C
Tool Box, 19' Inflatable Boat TL0055	
Tool Box, 20' Command Van TL0045	
Tool Box, 22' Command Boat TL0070	
Tool Box, 22.5' Rigid Hull Inflatable Boat TL0075	
Tool Box, 23' Inflatable Boat TL0060	
Tool Box, 24' BHB TL0030	
Tool Box, 24' Rigid Hull Inflatable Boat TL0065	
Tool Box, 36' Hovercraft TL0035	
Tool Box, 36' Modifided Skimmer SK0711 TL0020	7-167
Tool Box, 36' Skimmer SK0721 TL0025	
Tool Box, Arctic Oil Recovery System Van TL0016	
Tool Box, Arctic Oil Recovery System Van TL0027	
Tool Box, Beach Transfer System TL0090	
Tool Box, Class XI Skimmer System TL0018	
Tool Box, Command Trailer VA0718/VA0719 TL0040	
Tool Box, Destroil Skimmer System TL0019	
Tool Box For CR0040 Crane TL0021	
Tool Box, High Speed Current Buster Skimmer TL0026	
Tool Box, Oil Bladder Transfer System TL0024	
Tool Box, Oil Tanker TL0080	
Tool Box, POL Pump System TL0017	
Tool Box, Steam Generator System TL0085	
Tractor, Beach Transfer, Farm-Type TT2009	
Trailer, 22' Command Boat TR0951	
Trailer, Beach Transfer TR2114	
Trailer For WB0722, 24' BHB TR0944	
Trailer For WB0942, 18' Boat TR0936	
Tripod (POL) PU0284	7-243, 7-244AC
Two-Cycle Gas-Powered Portable Blower BL0025	
${f U}$	
Underwater Hydraulic Drill Press Kit KT0050	7-244Y
Underwater Hydraulic Drill Press DR0011	
USS-42 and USS-42HB Boom Equipment Basket BM0881	
V	, 5 111
	7.577
Vacuum Pump/Skimmer System P18100	
Vacuum Pump/Skimmer System Van (Van 1 of 2) VA2250	
Vacuum Pump/Skimmer System Van (Van 2 of 2) VA2251	
Vacuum Pump/Skimmer System Van (Van 1 of 2) VA2255	
Vacuum System, High Pressure, Three-Tank VS0010	
Vacuum System VS8100	
Van, 2" to 6" Submersible Hydraulic Pump System VA0280	
Van, Arctic Oil Recovery System (Van 1 of 2) VA1650	
Van, Arctic Oil Recovery System (Van 1 of 2) VA1651	
Van, Beach Transfer System VA2113	
Van, Berthing VA0734	
Van, Berthing, Shipboard VA0735	
Van, Class XI Skimmer System (Van 1 of 2) VA0924	
Van, Class XI Skimmer System (Van 2 of 2) VA0925	/-204G

Van, Cleaning VA2119A/B	7-443
Van, Command, 20' VA0727A/B	
Van, Command Trailer, 40' VA0718	7-339
Van, Command Trailer, 40' VA0719	
Van, Debris Handling System VA2400	7-566C
Van, Destroil Oil Skimmer VA0930	
Van, Firefighting System (Portable) VA0520	7-263, 7-285
Van, Floating Hose System (Van 1 of 4) VA2150	7-529
Van, Floating Hose System (Van 2 of 4) VA2151	7-548G
Van, Floating Hose System (Van 3 of 4) VA2152	
Van, Floating Hose System (Van 4 of 4) VA2153	7-5480
Van, Hose Supply and Support VA0120	7-518C
Van, Hot Tap VA0736A	
Van, Inland Support Skimmer System VA0800	7-681
Van, Inland Support Skimmer System VA0802	7-725
Van, Low Pressure Fender System VA2221	7-307
Van, Oil Bladder Transfer System VA2290	7-564C
Van, Oil Containment Boom, Harbor VA0801	7-732K
Van, Oil Containment Boom (Fug Boom) VA0720	
Van, Oil Containment Boom (USS-42 Boom) VA0738	7-13
Van, Oil Containment Boom (USS-42 HB Boom) VA0737	7-11
Van, Personnel Bunk VA0734	
Van, Rigging VA0010	7-363
Van, Salvage Support Skimmer System VA2220	7-625
Van, Shipping Container, 19' Inflatable Boat VA2260	7-89
Van, Shipping Container (10'), 23' Inflatable Boat VA2264	7-105
Van, Shipping Container (8'), 23' Inflatable Boat VA2265	7-107
Van, Skimmer, High Speed Current Buster VA0935	7-204AE
Van, Steam Generator System VA2500	
Van, Supply, 8' x 8' x 20' VA0740	
Van, Vacuum Pump/Skimmer System (Van 1 of 2) VA2250	
Van, Vacuum Pump/Skimmer System (Van 2 of 2) VA2251	
Van, Vacuum Pump/Skimmer System (Van 1 of 2) VA2255	
Van, Workshop VA0508	
Vehicle, Beach Transfer, ATV VE2110	7-436A
Vehicle, Loader, Model 863 Bobcat VE0040	
Vertical Axis Hydraulic Capstan CP0011	
Vessel of Opportunity Skimmer System P16300	
Vessel Skimmer System P16400	7-135
VHF Marine Mobile Radio RA1831	161, 7-335, 7-356C, 7-420E, 7-488, 7-501,
Radio, VHF, Marine Mobile, Voyager (76-Channel) RA1830	7-67, 7-97, 7-108G, 7-145, 7-159, 7-337,
VHF Portable Marine Radio/Repeater RA0905	7-422C
VHF Walk/Talk Standard Radio (55-Channel) RA1740	
VHF Walkie-Talkie Radio RA1731	
Video Kit, Over-the-Air GP0111	
Viscous Oil Transfer System P13200	
VOSS Outrigger Assembly OA0010	
W	······································
Washer, Pressure, Hydraulic WA0700	. 7-146I, 7-169, 7-201, 7-204BS, 7-564AI
Washer, HP, Water w/Destroil WA0808	
Washer, Pressure, Saltwater, Diesel WA0820	
Water Treatment Skid Package SG0015	
Winch, Hydraulic, 5000-Lb WN0280	

Downloaded from http://www.everyspec.com

Winch, Hydraulic, 6000-Lb WN0281	7-239, 7-244CK
Wire Rope Bridle ST0012	7-368W
Workboat, 36', Hovercraft, Dsl WB0975	7-523
Workshop Van VA0508	7-373
Wrench, Impact, Hydraulic TL1010	