User Manual
For
Amron International, Inc.

Model 8890
Oxygen Treatment Panel

S/N _____

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1 INTRODUCTION AND SPECIFICATIONS

1.1 INTRODUCTION

The Model 8890, Hyperbaric Oxygen Treatment Panel, is easy to use, and provides control and administration of oxygen within the chamber to an Amron oxygen treatment hood, lightweight face seal or Avox Pressur Vak II ™ face seal.

The panel is installed in the chamber and easily connected to the reduced chamber oxygen supply system. The panel's oxygen supply line may be connected in the supply port of the Amron BIBS Manifold, Model 8000-004, if the supply pressure is less than 100 PSI. This allows flexibility when full patient treatment necessitates the use of both the Oxygen Treatment Panel System and the Avox Overboard Discharge Mask Assembly.

The Model 8890 panel allows you to manually control the oxygen supply, humidification of oxygen, and exhaust flow to the patient wearing an oxygen treatment hood or an oxygen mask. The Model 8890 Oxygen Treatment Panel is used in conjunction with the Model 8890-100 Oxygen Treatment Hood and/or the Model 8890-200 Mask Assembly. Amron's Hood and Mask Assembly are supplied with the Humidifier, Inflation bags and all the necessary tubing, fittings, masks and/or hood, for a quick and easy set-up of the system.

The disposable Humidifier is an inexpensive unit designed for single patient use. This unit incorporates a fine-pore diffusing element that provides for an effective gas/liquid interface for humidification. The humidifier's jar has a large, wide mouth for easy filling and cleaning. The unit is of a durable, shatter-resistant construction with a 2-PSI pressure relief valve.

If you wish to use the Avox Pressur Vak II face seal in your system, a special adapter (P/N 8890-005) is available.

1.2 MECHANICAL SPECIFICATIONS

Input Pressure Range..... 15 PSI Over Chamber Pressure to 100 PSI
Max. Pressure..... 100 PSI
Supply Inlet Fitting (1/4 in. CPI)..... 1 ea.
Hood Supply On/Off Valve (1/4 Turn Ball Valve) ..... 1 ea.
Hood Supply Flowmeter (5-50 LPM) ..... 1 ea.
Supply Outlet Connection (22 MM O.D.) ..... 1 ea.
Humidifier Supply Flowmeter (.6-5 LPM) ..... 1 ea.
Humidifier Outlet Connection (02 Fitting) ..... 1 ea.
Exhaust Inlet Connection (22 MM O.D.) ..... 1 ea.
Exhaust Flow Control Valve (Needle Valve) ..... 1 ea.
Hood Exhaust On/Off Valve (1/4 Turn Ball Valve) ..... 1 ea.
Exhaust Outlet Fitting (1/2 in. CPI type) ..... 1 ea.

1.3 ENCLOSURE

Material	Aluminum
Finish	Polyester Powder Coating
Graphics	Silk-screened, Two Color
Color	Gray

1.4 DIMENSIONS (LESS HUMIDIFIER)

Length	9.0 in.
Height	9.1 in.
Depth	2.0 in.
Weight	4.7 lbs.

2 WARRANTY AND SERVICE POLICY

2.1 LIMITED WARRANTY

AMRON INTERNATIONAL, INC., (Amron) warrants that its products are free from defects in material and workmanship under normal use and service for a period of 90 days from date of shipment as described in Amron literature covering this product. Amron's obligation under this warranty is limited to the repair of or replacement, at Amron's option, of defective material. This warranty shall not cover defects which are the result of misuse, negligence, accident, repair or alterations.

2.2 SERVICE POLICY

For technical assistance or to request a repair, please call (760) 208-6500, Monday – Friday, 8 a.m. to 5 p.m. PT. Have the model number and serial number handy and be prepared to offer as much information as possible about the problem.

Please do not return any product without obtaining a return authorization number. Detailed instructions will be provided at the time of request.

3 ACCESSORIES

The following accessories are available to be used with the 8890 Oxygen Treatment Panel and can be ordered at any time.

8890-100	Oxygen Hood Assembly with trimmed latex neck seal comes complete with all necessary tubing, adapters and humidifier. Just attach to treatment panel and hood assembly is ready to use.
8890-101	Oxygen Hood Assembly with untrimmed latex neck seal comes complete with all necessary tubing, adapters and humidifier. Just attach to treatment panel and hood assembly is ready to use.
8890-102	Oxygen Hood Assembly with untrimmed silicone neck seal comes complete with all necessary tubing, adapters and humidifier. Just attach to treatment panel and hood assembly is ready to use.
8890-005	Special adapter for use with the Avox Pressure Vak II Face seal when using the oxygen face mask assembly system.
8890-006	Disposable Adult Aerosol Mask designed for single patient use. It comes standard with the Oxygen Face Mask Assembly Model 8890-200.
8890-007	Disposable Pediatric Aerosol Mask that is designed for single patient use. It comes standard with the Oxygen Face Mask Assembly Model 8890-200.
8890-0063	The disposable humidifier is designed for single patient use. This model is ideal for situations requiring isolation environments. The disposable jar has a large, wide mouth for easy filling and cleaning. The unit is of a durable, shatter-resistant construction with a 2-PSI pressure relief valve.
803152-XX	Avox Pressur Vak II Face Seal (adult sizes only) ▪ 803152-05 Extra Small ▪ 803152-01 Small ▪ 803152-02 Medium ▪ 803152-03 Large ▪ 803152-04 Extra Large
8891-01	Hood Assembly Complete with Trimmed Latex Neck Seal
8891-02	Hood Assembly Complete with Untrimmed Latex Neck Seal
8891-03	Hood Assembly Complete with Untrimmed Silicone Neck Seal

8891-07	Neck Ring Assembly with O-ring and Multi-Purpose Plug
8891-010	Hood with Optical Quality Window
8891-005	Latex Neck Seal, Trimmed
8891-005-00	Latex Neck Seal, Untrimmed
8891-009-00	Silicone Neck Seal, Untrimmed
8891-006	Torso Seal, Trachea Patients
8891-011	Neck Ring
8891-15	O-ring for Neck Ring
8891-25	Multi-purpose Plug
8891-50	Silencer, Inlet Noise Reducer
8890-300	Exhaust Regulator Adapter Kit
8890-500	Hose Assembly, 8890 or 8890-2 to BIBS Block
1640	Straight Adapter, 22 mm
1641	Street Elbow Adapter, 90º, 22 mm
1642	Tee Line Adapter
1680	Flex Tubing, 22 mm
8890-2001	Tube Support Hanger
0500-071	PVC Clear Tubing, ¼" x 1/16 Wall
MCG-111-2OZ	Oxygen Compatible Lubricant, Christolube (2 oz. Tube)

4 INSTALLATION AND OPERATION

Before using the oxygen treatment panel, familiarize yourself with its operating controls and connections. For simplicity, the controls and connections are divided into two categories; hood supply and hood exhaust.

4.1 HOOD SUPPLY

4.1.1 Oxygen Supply Inlet Fitting:

1/4" CPI type fitting (various type and size fittings are available upon request).

4.1.2 Hood Supply On/Off Valve:

1/4 turn ball valve is main oxygen supply control valve to stop all supply flow and allows flowmeters to be preset.

4.1.3 Hood Supply Flowmeter:

Controls oxygen flow to hood or face mask. The flow range is 5 to 50 LPM.

4.1.4 Supply Outlet Connection:

22mm O.D. Teflon connector accommodates flex tubing to hood or face mask assembly.

4.1.5 Humidifier Supply Flowmeter:

Controls oxygen flow to humidifier. The flow range is .6 to 5 LPM.

4.1.6 Humidifier Outlet Connection:

Oxygen type fitting for mating with humidifier.

4.2 HOOD EXHAUST

4.2.1 Exhaust Inlet Connection:

22mm O.D. Teflon connector accommodates flex tubing from hood or face mask assembly.

4.2.2 Exhaust Flow Control Valve:

Needle valve controls amount of exhaust flow to be vented.

4.2.3 Hood Exhaust On/Off Valve:

1/4 turn ball valve is main exhaust control valve to stop all exhaust flow and allows exhaust flow control valve to be preset.

4.2.4 Exhaust Outlet Fitting:

1/2" CPI type fitting (Various type and size fittings available upon request).

4.3 DRAWING, FRONT PANEL, MODEL 8890

4.4 INSTALLATION OF PANEL & HUMIDIFIER

4.4.1 Mount treatment Panel securely keeping the flow meters perpendicular to chamber floor to insure accurate performance. The treatment panel has 3 different mounting positions located on sides of panel for ease of installation. (For mounting options, refer to drawing in section 6.1).

4.4.2 Connect chamber oxygen supply line (less than 100 PSI) to supply inlet fitting on treatment panel. The chamber oxygen line is to be 1/4" O.D. Copper or stainless steel with a working pressure greater than 100 PSI. The chamber oxygen supply line from treatment panel may be connected to the Amron BIBS Manifold if the pressure to manifold block is less than 100 PSI. (For more details, refer to schematic drawing in section 6.2)

4.4.3 Connect exhaust line from exhaust outlet fitting on treatment panel to a hull penetrator used for exhaust only. Install a hull stop ball valve on outside of chamber using same hull penetrator for exhaust outside the chamber. Run exhausted gas outside the building. The exhaust line is to be 1/2" O.D. copper or stainless steel with a working pressure greater than 100 PSI. (For more details, refer to schematic drawing in section 6.2).

4.4.4 Connect humidifier to oxygen fitting, labeled “HUMIDIFIER”.

4.4.5 Fill humidifier to proper level using distilled, sterilized or potable water unless otherwise instructed by a physician.

4.5 INSTALLATION OF HOOD ASSEMBLY

4.5.1 Connect Tygon tubing from line adapter tee to humidifier output.

4.5.2 Connect 22mm line adapter tee to supply outlet connection.

4.5.3 Connect oxygen supply and exhaust flex tubing connectors to the 22 mm mating connections located on neck ring. The supply and exhaust connectors may be attached to either connection when using the Amron Oxygen Treatment Hood. Optional 90-degree elbows are available from Amron.

NOTE: OTHER MANUFACTURED HOODS VARY. PLEASE REFER TO THE MANUFACTURER’S LITERATURE FOR PROPER INSTALLATION AND OPERATING PROCEDURES.

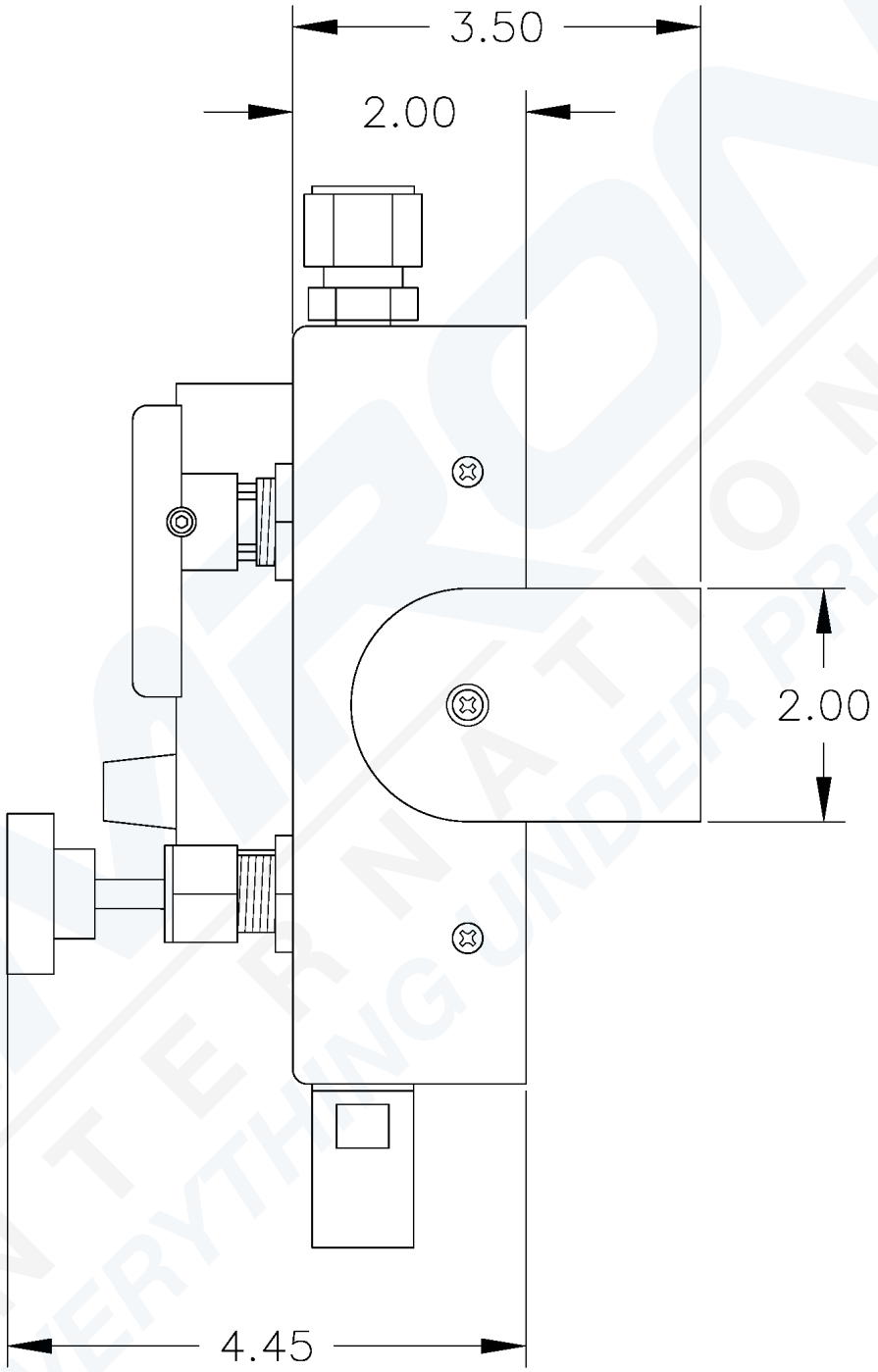
4.6 INSTALLATION OF MASK ASSEMBLY

4.6.1 Connect Tygon tubing from line adapter tee to humidifier output.

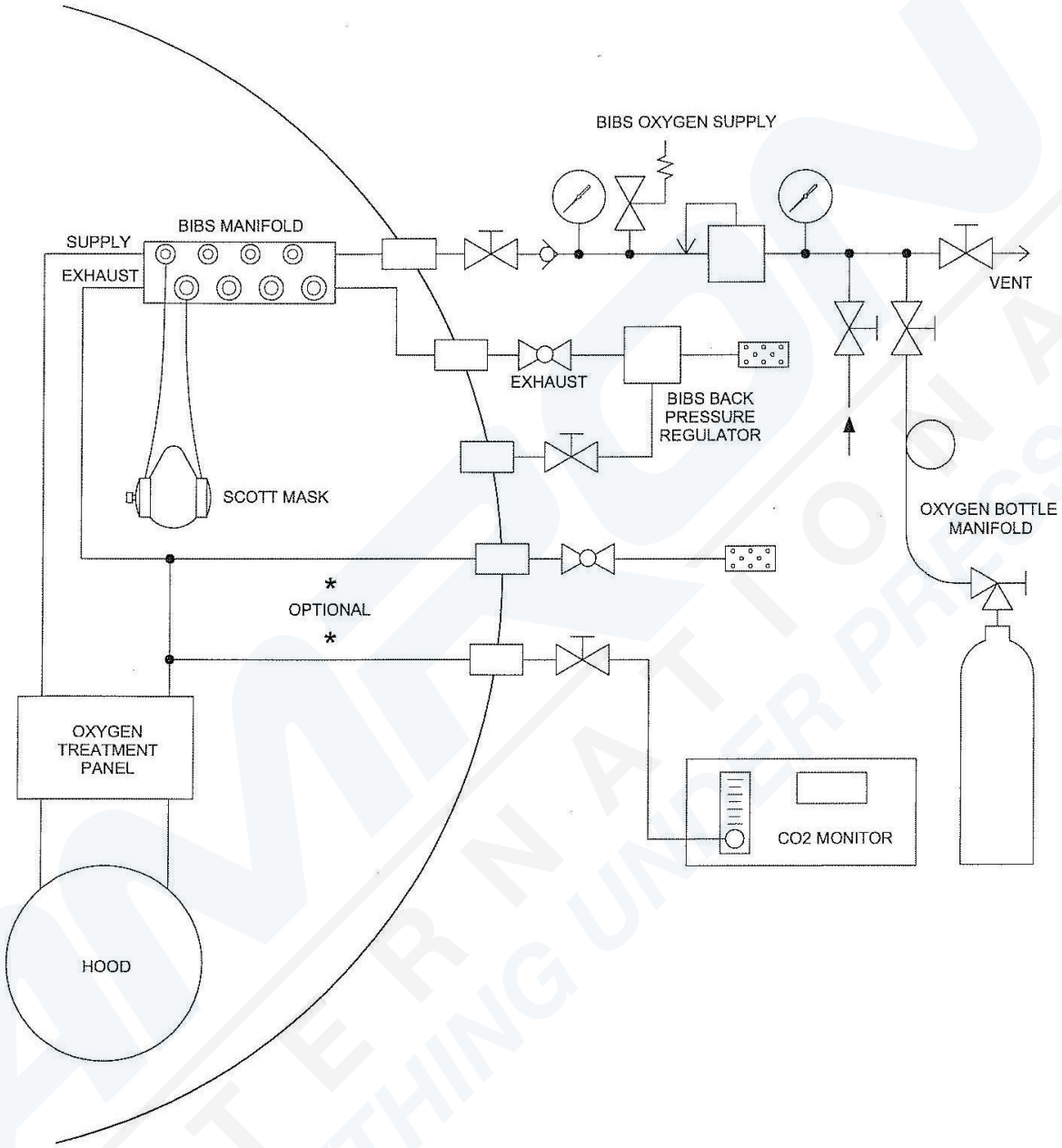
4.6.2 Connect 22mm multi-access tee (labeled “Supply”) to supply output connection. Note -Arrow on one-way valve to point toward parallel wye.

4.6.3 Connect 22mm multi-access tee (labeled “Exhaust”) to exhaust inlet connection. Note -Arrow on one-way valve to point away from parallel wye.

4.7 DRAWING, MOUNTING OPTIONS



4.8 DRAWING, SCHEMATIC OF COMPLETE SYSTEM



4.9 TREATMENT PANEL WITH HOOD ASSEMBLY

4.9.1 Connect humidifier to oxygen fitting labeled “Humidifier”.

4.9.2 Connect Tygon tubing from line adapter tee to humidifier output.

4.9.3 Connect 22 mm I.D. from line adapter tee to supply outlet connection.

4.9.4 Connect oxygen supply and exhaust flex tubing connectors to the 22 mm mating connections located on neck ring. The supply and exhaust connectors may be attached to either connection when using the Amron Oxygen Treatment Hood. Optional 90 degree elbows are available from Amron.

NOTE: OTHER MANUFACTURED HOODS VARY. PLEASE REFER TO THE MANUFACTURER’S LITERATURE FOR PROPER INSTALLATION AND OPERATING PROCEDURES.

4.9.5 Fill humidifier to proper level using distilled, sterilized or potable water unless otherwise instructed by a physician.

4.9.6 Turn “Hood Supply” and “Hood Exhaust” valves to “OFF” position.

4.9.7 Turn on both chamber oxygen supply and exhaust hull stop ball valves located on outside of chamber.

NOTE: CHAMBER OXYGEN SUPPLY IS NOT TO EXCEED 100 PSI.

4.9.8 Mount neck ring assembly over head of patient.

4.9.9 Turn “Hood Supply” and “Hood Exhaust” valves to “ON” position.

4.9.10 Open (approx. 1 turn) EXHAUST FLOW CONTROL VALVE.

4.9.11 Adjust “Hood Flow Control” flow meter between 25-40 liters per minute.

PLEASE NOTE: FLOW RATES WILL VARY WITH CHAMBER, DELIVERY SYSTEM, PATIENT TIDAL VOLUME AND BREATHING RATE. PROPER O2 AND CO2 LEVELS ARE TO BE VERIFIED WITHIN THE HOOD THROUGH THE MULTIPURPOSE PORT.

4.9.12 Adjust “Humidifier Flow Control” flow meter to mid-scale.

4.9.13 Mount the hood to neck dam and adjust the supply and exhaust flow controls to stabilize hood pressure. Note: Excessive flow will over inflate the hood, and insufficient flow will collapse the hood.

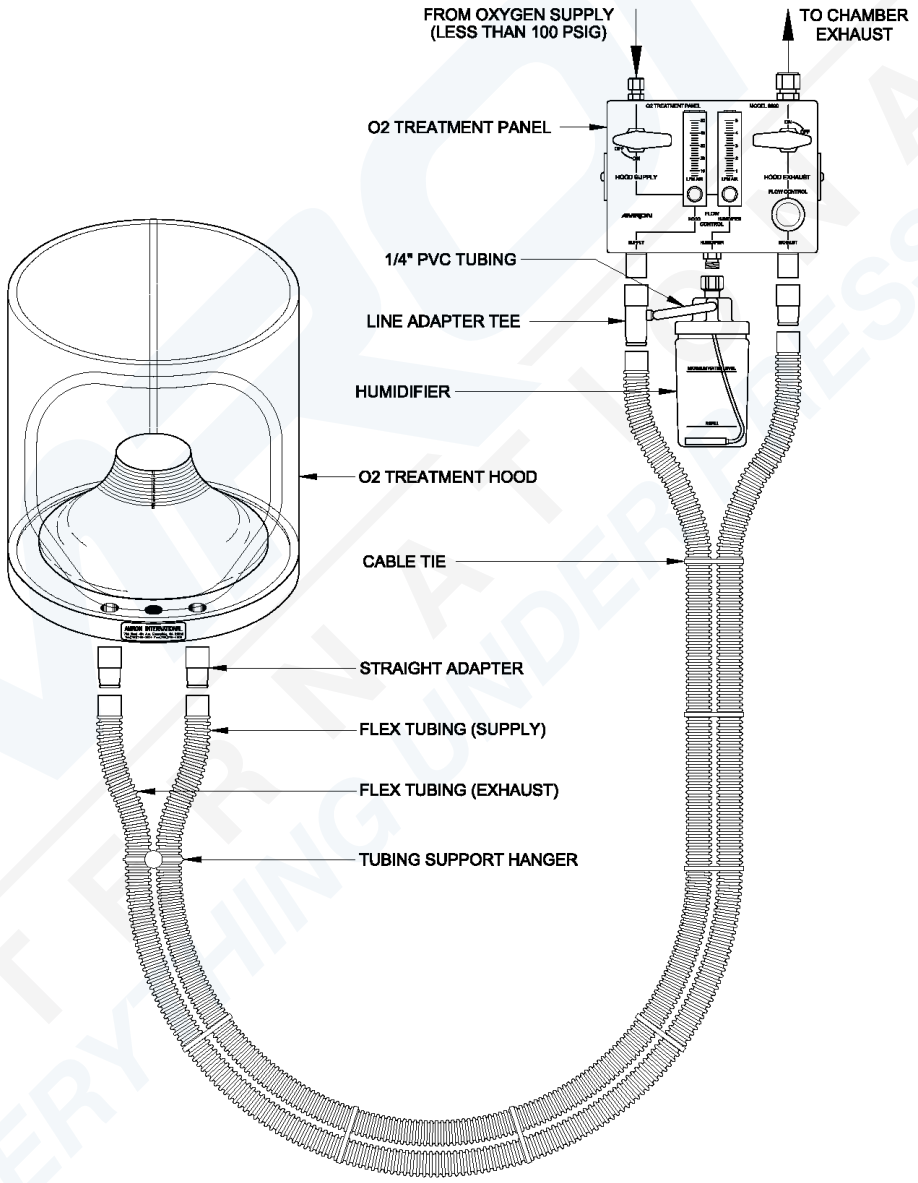
4.9.14 When terminating use of treatment panel and hood, simply remove hood from patient.

4.9.15 To secure system, turn off main oxygen valve and main exhaust valve.

4.10 DRAWING, TREATMENT PANEL WITH HOOD ASSEMBLY

OXYGEN HOOD SYSTEM WITH HUMIDIFIER & TUBING

MODEL 8890-100 (LATEX NECKSEAL TRIMMED)
MODEL 8890-101 (LATEX NECKSEAL UNTRIMMED)
MODEL 8890-102 (SILICONE NECKSEAL UNTRIMMED)



4.11 TREATMENT PANEL WITH MASK ASSEMBLY

4.11.1 Connect humidifier to oxygen fitting labeled “Humidifier”.

4.11.2 Connect Tygon tubing from line adapter tee to humidifier output.

4.11.3 Connect 22 mm multi-access Tee labeled “Supply” to supply output connection. Note: Arrow on one-way valve should point towards the parallel Wye.

4.11.4 Connect 22 mm multi-access Tee labeled Exhaust to exhaust inlet connection.

4.11.5 Fill humidifier to proper level using distilled, sterilized or potable water unless otherwise instructed by a physician.

4.11.6 Turn “Hood Supply” and “Hood Exhaust” valves to “OFF” position.

4.11.7 Turn on both chamber oxygen supply and exhaust hull stop ball valves located on outside of chamber.

NOTE: CHAMBER OXYGEN SUPPLY IS NOT TO EXCEED 100 PSI.

4.11.8 Turn “Hood Supply” and Hood Exhaust” valves to “ON” position.

4.11.9 Open “Flow Control” exhaust valve (approx. 1 turn).

4.11.10 Adjust “Hood Flow Control” flowmeter to mid-scale.

4.11.11 Adjust “Humidifier Flow Control” to mid-scale.

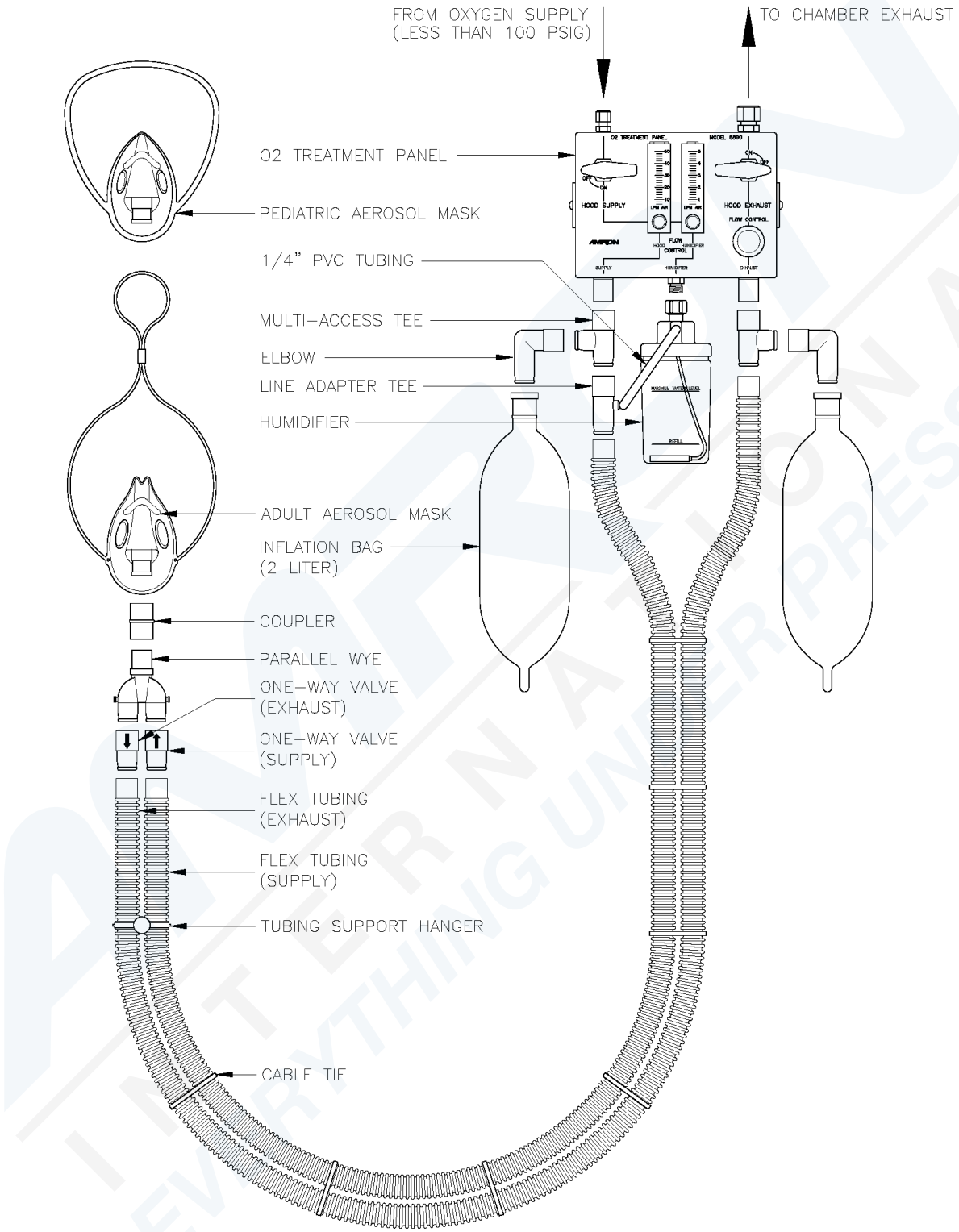
4.11.12 Place mask over patients face covering both nose and mouth. The mask is elongated and fits over the nose bridge and under the chin.

4.11.13 Adjust the supply and exhaust flow controls to stabilize inflation bags. Note: Excessive flow will over inflate inflation bags and insufficient flow will collapse inflation bags.

4.11.14 When terminating use of treatment panel and hood, simply remove mask from patient.

4.11.15 To secure system, turn off main oxygen valve and main exhaust valve.

4.12 DRAWING, TREATMENT PANEL WITH MASK ASSEMBLY



5 MAINTENANCE AND TROUBLESHOOTING

The following section describes the procedures for checking the operation of your Oxygen Treatment Panel, general maintenance procedures, and how to troubleshoot common problems.

5.1 GENERAL MAINTENANCE

The Oxygen Treatment Panel is designed to provide years of continuous, failure-free service when properly used and maintained. There are a few important things that the user can do to extend the life of their equipment.

1. Handle the Oxygen Treatment Panel with care.
2. Clean your equipment. Cleaning involves the use of a clean damp cloth to wipe the treatment panel, connections, flex tubing, hood/neck seal and mask etc.

5.2 RECOMMENDED MAINTENANCE SCHEDULE

The following sections outline the recommended scheduled maintenance for the Oxygen Treatment Panel

5.2.1 DAILY MAINTENANCE

- Before and after use of Treatment Panel, inspect for any damaged parts (inspect for cuts, abrasion, and general deterioration).
- Do a functional test prior to use, to assure proper performance of system.
- After use of Treatment Panel, record operator comments regarding maintenance required.
- Clean your equipment as previously stated.

NOTE: If equipment has been cleaned with a hospital approved germicidal disinfectant, be sure to rinse and dry completely.

- The o-ring located on the neck ring of hood has been lightly coated with an oxygen-compatible Christolube lubricant to aid in the mating of the hood to the neck ring. For ordering information regarding the Christolube Lubricant, refer to Options and Accessories section.
- Apply a small amount of cornstarch or talcum on the neck seal for storage and to aid in the ease of installation. The cornstarch or talcum on the neck seal is easily removed by washing.

5.2.2 YEARLY MAINTENANCE

- Remove valve stem from EXHAUST FLOW CONTROL VALVE and inspect, clean, lubricate (use Halocarbon grease) and install. Check valve seat, threads, and packing material for signs of wear or deterioration and replace if necessary.
- Check all valves for bubble tight shut off. Replace seats as needed.

- Leak test all fittings and connections.
- The Dwyer flowmeters are calibrated at the factory. If at a time during the meter's life, you wish to recheck its calibration, do so only with devices of certified accuracy. DO NOT attempt to check flowmeters with a similar flowmeter as seemingly unimportant variations in piping and back pressure may cause noticeable differences in the indicated reading.

5.2.3 36 MONTH MAINTENANCE

- Replace all soft goods, seals and gaskets.
- Record the results of the above tests.

5.3 TROUBLESHOOTING

Most problems are usually simple issues that can often be found by careful inspection of the equipment. The following section will describe the troubleshooting procedure for several common issues.

5.3.1 No Oxygen Supply to Hood or Mask

Turn Hood Supply Valve in the “ON” position Crack open Hood and Humidifier Flowmeters. Check at hood or mask for oxygen flow.

Check to be sure main oxygen supply is turned on and reading correct pressure.

Check all connections for proper installation.

5.3.2 No Oxygen Exhaust from Hood or Mask

Turn Hood Exhaust Valve in the “ON” position. Crack open Exhaust Flow Control Valve. Check at hood or mask for exhaust flow.

Check that Outside Exhaust Valve is in the “ON” position.

Check all connections for proper installation.

5.3.3 Over Inflation of Hood

Over inflation of hood is caused from excessive flow. Adjust both flowmeters to mid-scale and check hood exhaust flex tubing for any kinks. If excessive flow continues, open Exhaust Flow Control Valve by turning handle counter-clockwise to increase exhaust flow. If over inflation persists, decrease the flow from Hood Supply Flowmeters by turning knob clockwise. If the problem still exists, check that Outside Chamber Exhaust Valve is in the “ON” position.

5.3.4 Collapsing of Hood

Insufficient flow will collapse the hood. Adjust both flowmeters to mid-scale and check hood supply flex tubing for any kinks. Check for leaks where Neck Ring to Hood Ring

mate. If insufficient flow continues, decrease Exhaust Flow Control Valve by turning handle clockwise.

5.3.5 Humidifier Malfunction

Test Humidifier for leaks and safety valve operation by setting flow of oxygen to 3 LPM and occluding the Humidifier outlet. If safety valve does not activate or appreciable leakage is observed, check that the jar is secure to the Humidifier lid, and that the fitting to the oxygen source is tight.

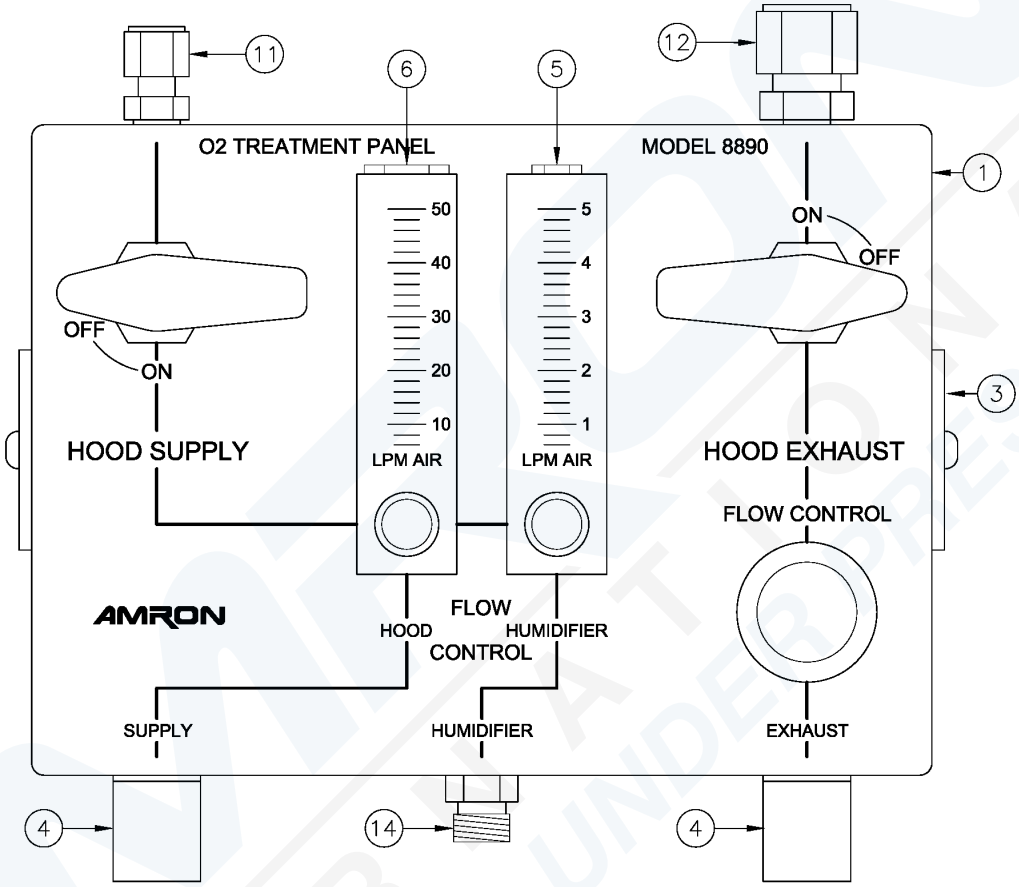
6 DRAWINGS AND SCHEMATICS

The following drawings illustrate the mechanical details of the Amron Oxygen Treatment Panel and associated parts. The corresponding parts lists for each drawing are detailed in the parts lists section.

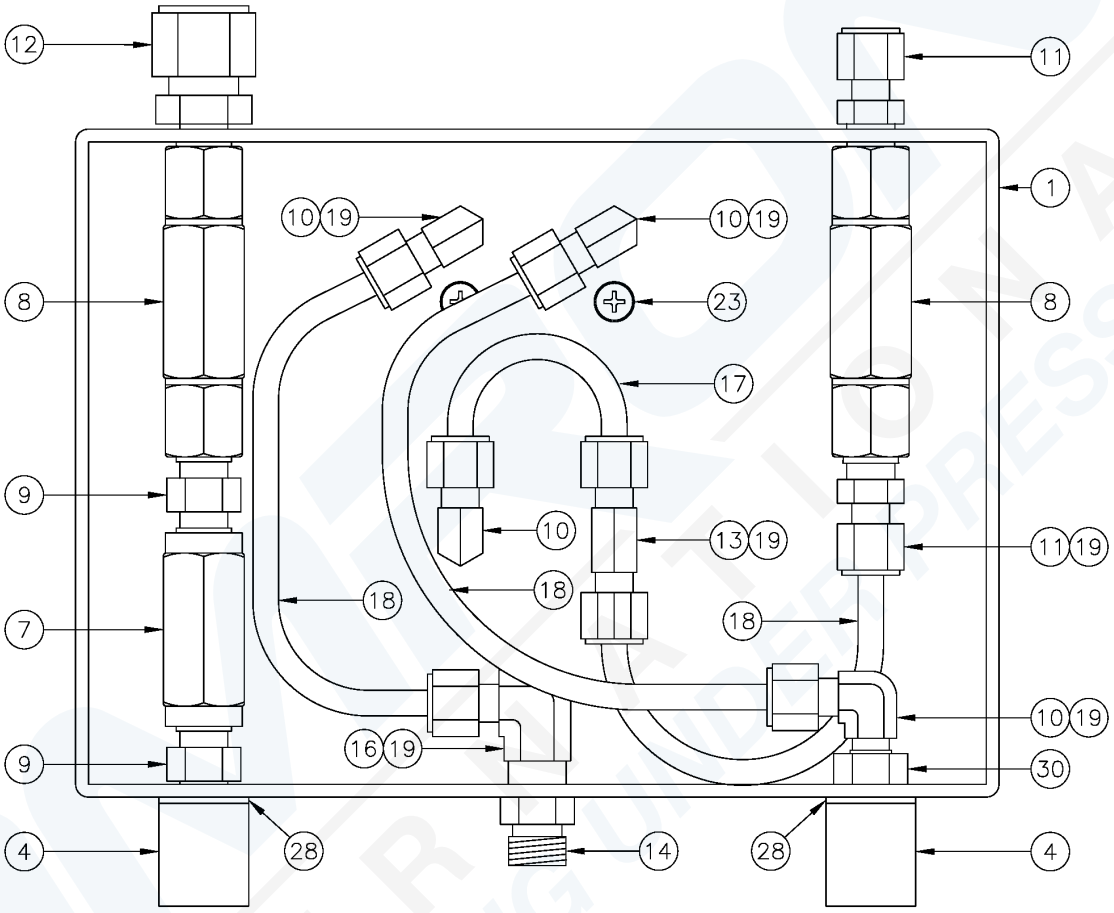
Revisions

As drawings are updated, information about changes is incorporated into a revision sheet. This revision sheet appears in the manual immediately after the drawings. It lists the drawing number, reference designator of the part or parts involved a description of the revision, and the effective serial number of the change. With this information the technician can determine the correct drawing for the current version, and any previous version, of the unit covered by this manual. If the revision is applicable for all versions of the unit, it is not included in the revision notice, as the change applies to all units.

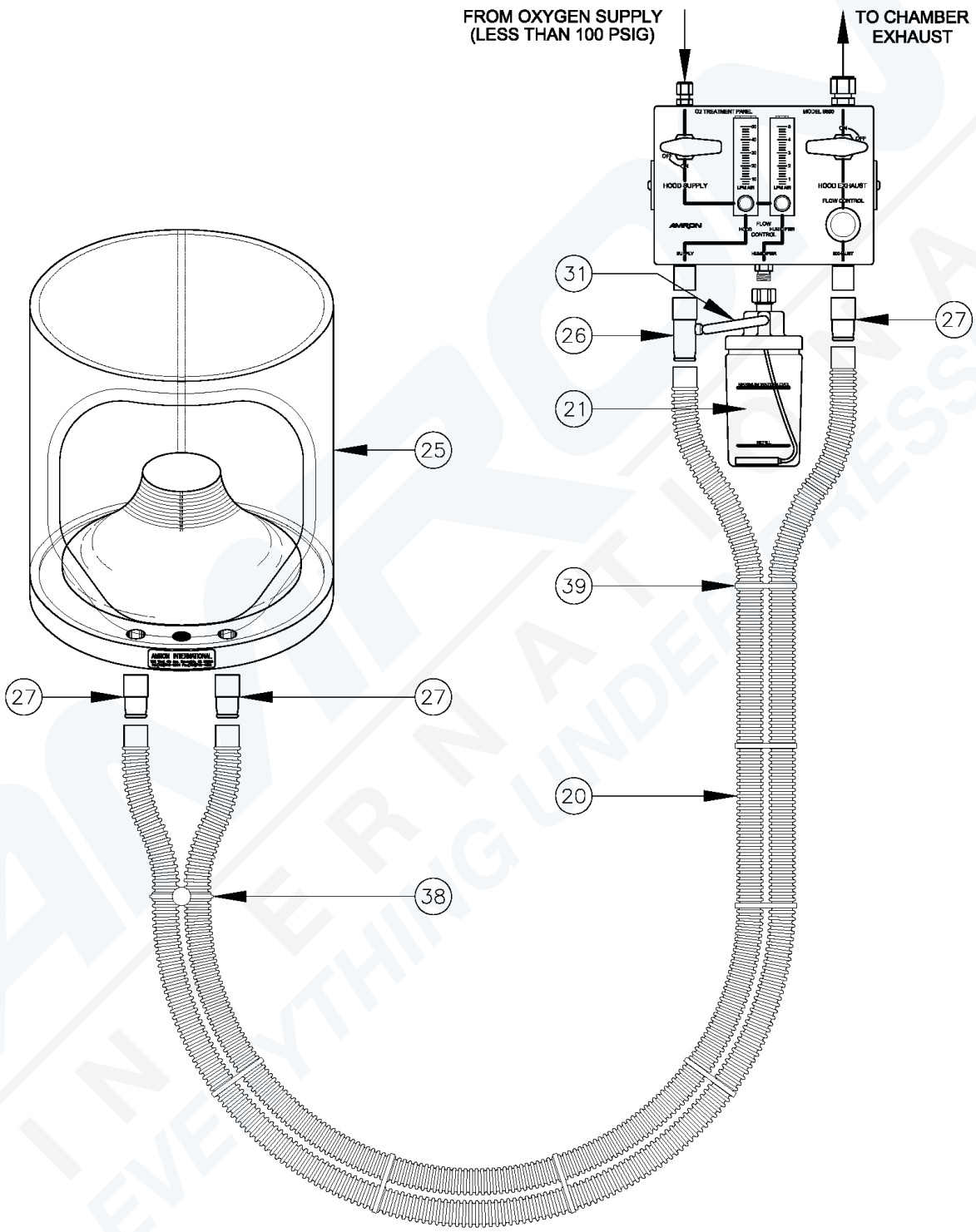
6.1 PARTS LOCATOR, TREATMENT PANEL (FRONT)



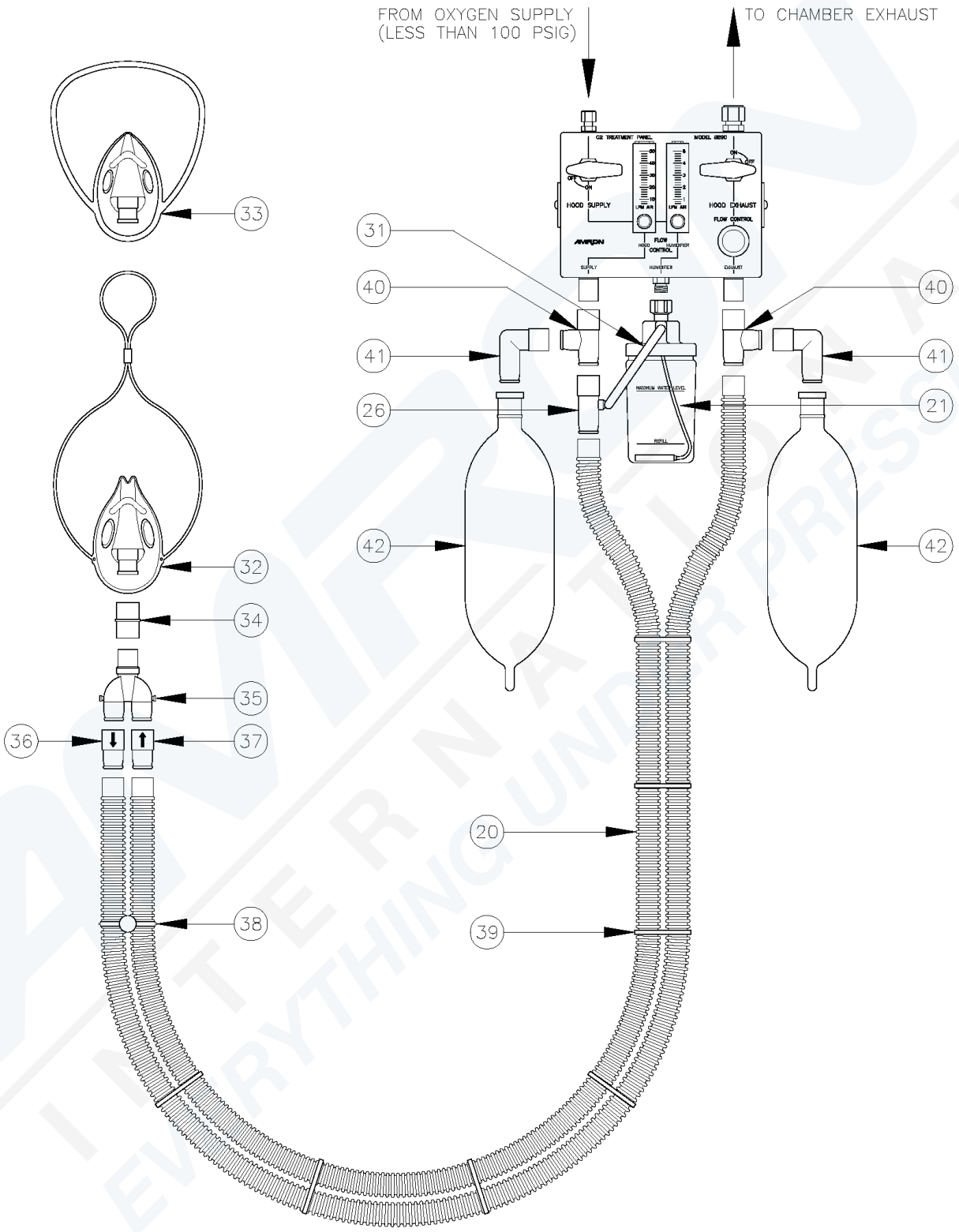
6.2 PARTS LOCATOR, TREATMENT PANEL (BACK)



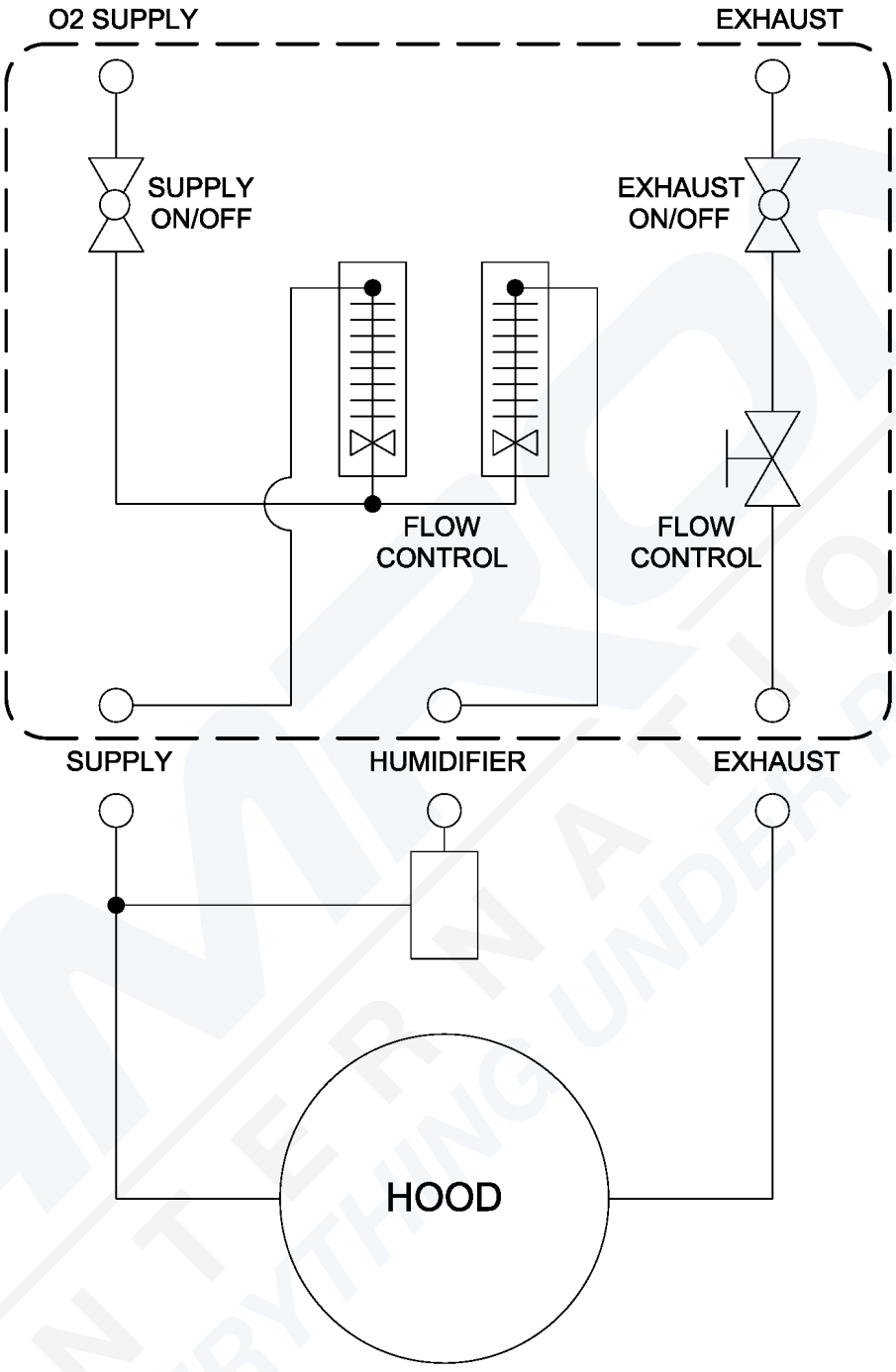
6.3 PARTS LOCATOR, HOOD ASSEMBLY (LESS TREATMENT PANEL)



6.4 PARTS LOCATOR, MASK ASSEMBLY



6.5 FLOW DIAGRAM



7 PARTS LIST GENERAL

The parts lists include both mechanical and electrical parts. The following information will be useful in interpreting data which is not self-explanatory.

REVISIONS

The parts lists in this manual are for the current model of diver communicator as of the printing date.

To Order Replacement Parts Contact:

Amron international, Inc.
1380 Aspen Way, Vista, California, 92081 U.S.A.
Telephone: (760) 208-6500 Fax: (760) 599-3857
Email: sales@amronintl.com
Web: www.amronintl.com

When ordering replacement parts, you should give as much information as possible to enable us to supply the correct part. This information should include the part number, description, reference designator, value, radio model number, and serial number. Failure to provide sufficient information may hinder our ability to fill your parts orders promptly and correctly.

7.1 MODEL 8890 OXYGEN TREATMENT PANEL

REFERENCE	PART NUMBER	DESCRIPTION
1	8890-001	FRONT COVER *** NOT FORSALE ***
2	8890-002	REAR COVER, *** NOT FOR SALE ***
3	8890-003	MOUNTING BRACKET *** NOT FOR SALE ***
4	8890-014	COUPLER, 22 MM
5	VFA-23-BV	FLOWMETER, HUMIDIFIER .6-5 LPM
6	VFA-26-BV	FLOWMETER, HOOD 6-50 LPM
7	4F-V6LK-BP-G-KRY	NEEDLE VALVE 1/4” FNPT, GREEN, KRYTOX
8	4F-B6LJ-BP-GR	3/8" BALL VALVE, 1/4" FNPT, GREEN
N/S	6-PANEL-NUT-SS	PANEL NUT FOR 4F-V6LK-B-G-KRY
9	FF-B-1/4	PIPE NIPPLE, 1/4” MNPT
10	CBZ-B-4-2	MALE ELBOW, 1/4 TUBE X 1/8 MNPT
11	FBZ-B-4-4	CONNECTOR, 1/4 TUBE X 1/4 MNPT
12	FBZ-B-8-4	CONNECTOR, 1/2 TUBE X 1/4 MNPT
13	SBZ-B-4-4-2	BRANCH TEE, 1/4 TUBE X 1/8 MNPT
14	AF-1008	O_2 X 1/8 MNPT ADAPTER
16	DBZ-B-4-2	FEM. ELBOW, 1/4 TUBE X 1/8 FNPT
17	CUTUS1/4	COPPER TUBING, 1/4" X .035 WALL
18	NN-4-035	NYLON TUBING, 1/4” X .035 WALL
19	TIZ.170-B-4	INSERT, BRASS .70 OD.
22	8-32X1/2SSPHP	SCREW, 8-32 X 1/2”
23	10-32X3/8SSFHP	SCREW, 10-32 X 3/8” S/S FLAT HEAD, PHILLIP
28	9/16ISW	INTERNAL STAR WASHER, S/S
30	PTR-B-1/4X1/8	PIPE THREAD REDUCER, 1/4 X 1/8

7.2 MODEL 8890-100 OXYGEN HOOD SYSTEM WITH TUBING & HUMIDIFIER

REFERENCE	PART NUMBER	DESCRIPTION
25	8891-01	COMPLETE O2 HOOD WITH LATEX NECK SEAL
21	8890-0063	HUMIDIFIER, DISPOSABLE
27	1640	TUBING ADAPTER, 22 MM
39	528-3520	CABLE TIE
26	1642	TEE, LINE ADAPTER
38	8890-2001	TUBING HANGER
20	1680	FLEX TUBING, 22 MM X (10FT. REQUIRED)
31	0500-071	TYGON TUBING ¼” I.D.

7.3 OXYGEN FACE MASK COMPONENTS WITH TUBING & HUMIDIFIER

REFERENCE	PART NUMBER	DESCRIPTION
41	1641	ELBOW ADAPTER, 22 MM
20	1680	FLEX TUBING, 22 MM X REQUIRED)
34	1675	CONNECTOR 22 MM
35	371-6670	PARALLEL WYE
36	36-1665	ONE-WAY VALVE, EXHAUST (HUDSON)
37	36-1664	ONE WAY VALVE, SUPPLY (HUDSON)
40	76072	MULTI-ACCESS TEE
38	8890-2001	TUBING HANGER
42	062-2202	INFLATION BAG 2 LITER
32	8890-006	ADULT AEROSOL MASK, (OVER EAR)
33	8890-007	PEDIATRIC AEROSOL MASK
21	8890-0063	HUMIDIFIER, DISPOSABLE
31	0500-071	TYGON TUBING, 1/4" I.D.(9 INCHES REQUIRED)
39	528-3520	CABLE TIE
26	1642	TEE, LINE ADAPTER

7.4 RECOMMENDED SPARES

REF.	PART NO.	DESCRIPTION	QTY.
1	8890-0063	HUMIDIFIER, DISPOSABLE	1
2	8891-01	COMPLETE HOOD W/LATEX NECK SEAL, TRIMMED	1
2A	8891-02	COMPLETE HOOD W/LATEX NECK SEAL, UNTRIMMED	1
2B	8891-03	COMPLETE HOOD W/SILICONE NECK SEAL, UNTRIMMED	1
3	8891-006	TORSO SEAL FOR TRACHEA PATIENTS	1
4	1680	FLEX TUBING, 22 MM (SOLD BY THE CASE OR FOOT)	20
5	1642	LINE ADAPTER TEE	1
6	1640	TUBING ADAPTER	1
7	822188-SS	REPAIR KIT, FOR P/N 8890-0227	1
8	802065-4	REPAIR KIT, FOR P/N 8890-0228	2
9	0500-071	TYGON TUBING, ¼" (BY THE FOOT)	1
10	MCG-111-2OZ	CHRISTOLUBE GREASE, (2 OZ. TUBE)	1
11	8890-006	DISPOSABLE ADULT AEROSOL MASK	25
12	8890-007	DISPOSABLE PEDIATRIC AEROSOL MASK	15