Amron International, Inc.

LIMITED WARRANTY & SERVICE POLICY

LIMITED WARRANTY

AMRON INTERNATIONAL, INC., (Amron) warrants that its manufactured products are free from defects in material and workmanship under normal use and service for a period of one year from date of shipment as described in Amron's literature covering this product. Oxygen Treatment Hoods and accessories are excluded and limited to 90 days. 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.

SERVICE POLICY

For technical assistance or to request a repair, please complete one of the following:

- *Amron Communicator Repair*: https://www.amronintl.com/communicator-repair-form
- *Repair Request (all other products)*: https://www.amronintl.com/repair-form
- Call (760) 208-6500, Monday – Friday, 8 a.m. to 5 p.m. PST.

Both MODEL NO. and SERIAL NO. are required fields to be entered on the *Amron Communicator Repair Request* form and can be found on the products identification label as shown below.

"Sample" Product Identification Label

Do Not return any product without obtaining a RMR (Return Materials Request). Detailed instructions will be provided at the time of request.

1380 Aspen Way, Vista California 92081-8349 U.S.A
Phone: (760) 208-6500 Fax (760) 599-3857
Email: sales@amronintl.com Web: www.amronintl.com

User Manual
For
Amron International, Inc.

7100 Series
LED Hyperbaric Chamber Lights

S/N _____

This manual and the information contained herein are provided for the use as an operation and maintenance guide. No license or rights to manufacture, reproduce, or sell either the manual or articles described herein are given. Amron International, Inc. reserves the right to change specifications without notice.

DISCLAIMER NOTICE: Amron's hyperbaric chamber light products are designed to be used in air chambers where oxygen concentrations remain below 23.5%. Our hyperbaric products (including external conditioning systems, internal conditioning systems, lights and other hyperbaric accessory items) are NOT designed for oxygen service, are not intrinsically safe, and do not meet the criteria given in NFPA-99, Chapter 20 and other applicable definitions. Use of our products in high-concentration Oxygen environments may result in serious injury and/or death.

Introduction

Amron International's 7100 Series of LED Hyperbaric Chamber Lights provides industry leading illumination along with a dimmer feature not found on competitor's LED lights. The 7100 Series comes with an industry standard mounting plate for easy retrofit into existing chamber installations and an optional magnetic base that allows for quickly moving the light as needed. The light can be ordered with red or blue filters.

The 7100 comes with an industry standard 3-pin connector. The dimmer is controlled by a button located on the side of the light. Should the light be turned off inside the chamber, the chamber operator can turn the light on by cycling the power to the light from the outside.

The 7120 comes with a 4-pin connector. The fourth pin is a dimmer control line that controls the light level using a 0-10 Volts control voltage. The light level will be the higher of the internal and external dimmer control settings.

Electrical Specifications

Operating Voltage Range.....9-28 V_{DC}
Input Power.....15 Watts (maximum)
Color Temperature.....5000K
Beam Angle.....120°
Light Level.....Adjustable up to 1000 lumens
External Dimmer Control Voltage (7120 only).....0-10 Volts

Mechanical Specifications

Housing.....6061 Aluminum
Finish.....Black Hard Anodized, MIL-A-8625, type III class 2
Pressure Rating.....1000 fsw (300 msw)
Mating Connectors
- 7100 - 3-pin Marsh Marine RMG-3-FS
- 7120 - 4-pin Marsh Marine.....RMG-4-FS

Locking Sleeve
- Delrin - Marsh Marine.....G-FLS-D
- Stainless Steel - Marsh Marine.....G-FLS-S

Dimensions
- Height.....2.6 inches (67 mm)
- Body Diameter.....3.3 inches (84 mm)
- Mounting Plate.....4.5 inches (114 mm)

Weight.....1.50 lbs (0.68 kg)
Mounting Holes
- Industry Standard Two 0.25 inch (6.35 mm) diameter mounting holes with a 3.82 inch (97 mm) spacing.

Controls, Connections and Replacement Parts

1	Power Connector	Model 7100 (3-Pin)	P/N 160-0003-01
		Model 7120 (4-Pin)	P/N 160-0004-01
2	Pressure Vent - DO NOT BLOCK		P/N 520-0005-01
3	Dimmer Switch		P/N 540-0020-01
N/S	Replacement LED Module		P/N 170-1000-05

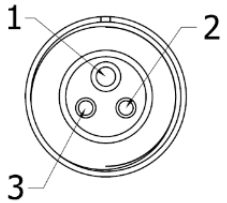
The Internal Dimmer Control button works by increasing the light level with each button press until the maximum level is reached. Each following press will reduce the light level until the light is off. This cycle will repeat for each button press - holding down the button has no effect.

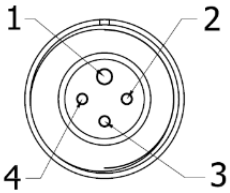
Options

Blue Lens Filter	P/N 245-0004-01
Red Lens Filter	P/N 245-0003-01
Magnetic Base	P/N 540-0021-01

The Magnetic Base attaches to the mounting plate using a ¼-20 by ½ inch deep threaded hole in the bottom of the base plate.

Note: When installing chamber wiring, lighting power lines should not be routed with unshielded communicator wiring.





7100		7120	
PIN #	**Function**	**PIN #**	**Function**
1	V+	1	V+
2	Safety Ground	2	Dimmer Control
3	V-	3	Safety Ground
		4	V-

AMRON INTERNATIONAL

APPENDIX A
LED Replacement Instructions
For 7100 & 7120
Hyperbaric Chamber Lights

7100-UM 12/18/2018 REV 8.0

APPENDIX A: LED Replacement Instructions

While performing this procedure, all standard ESD precautions are to be used.

1. Place light on a stable, ESD protected work surface. Unscrew the top cap and remove. Remove the diaphragm washer and lens and carefully place aside as shown in Figure 1.

2. As shown in Figure 2, the LED Module is held in place by an LED Holder with two #4 Phillips head screws. Remove these two screws and place aside.

3. Lift the LED Holder at an angle, gently press the LED to remove it from the LED Holder, and note the alignment of the LED Module (see Figure 2).

4. Verify that the ✚ pad on the LED Module aligns with the spring contacts of the LED Holder and snap the LED Module into place. The LED Holder should lay flat when everything is properly aligned (see Figure 3).

5. Re-install the screws removed in step 3. Do not over tighten - maximum torque is 5 inch pounds (0.6 Newton meters).

6. Re-install the diaphragm washer and top cap. Seat the top cap hand tight (see Figure 1).

Figure 1: Removal/Installation of Top Cap & Lens

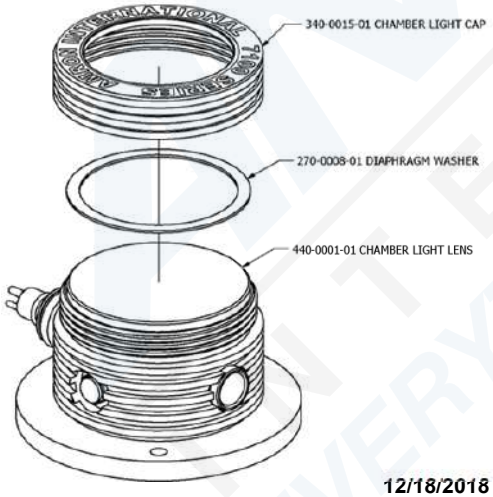


Figure 2: Removing the LED Module

Remove (2) Phillips head screws.

Gently push-in LED and remove.

Figure 3: Replacing the LED Module

Line-up the ✚ contacts on both the Holder & LED and gently snap into place until it clicks.

Reinstall (2) Phillips head screws.