



# INSTALLATION, OPERATION & MAINTENANCE INSTRUCTIONS

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No. 0510000769 (1)

## Model 7603BL/7603BL240 Heated Blanket for 7603 Portable Eyewash

**NOTE TO INSTALLER:** Please leave this information with the Maintenance Department.

### LIMITED WARRANTY

HAWS warrants that this specific product is guaranteed against defective material or poor workmanship for a period of **one year from date of shipment**. HAWS liability under this warranty shall be discharged by furnishing without charge F.O.B. HAWS Factory any goods, or part thereof, which shall appear to the Company upon inspection to be of defective material or not of first class workmanship, provided that claim is made in writing to Haws within a reasonable period after receipt of the product. Where claims for defects are made, the defective part or parts shall be delivered to the Company, prepaid, for inspection. HAWS will not be liable for the cost of repairs, alterations or replacements, or for any expense connected therewith made by the owner or his agents, except upon written authority from HAWS, Sparks, Nevada. HAWS will not be liable for any damages caused by defective materials or poor workmanship, except for replacements, as provided above. Buyer agrees that Haws has made no other warranties either expressed or implied in addition to those above stated, except that of title with respect to any of the products or equipment sold hereunder and that HAWS shall not be liable for general, special, or consequential damages claimed to arise under the contract of sale.

The emergency equipment manufactured by HAWS is warranted to function if installation and maintenance instructions provided are adhered to. The units also must be used for the purpose for which they were intended. This product is intended to supplement first-aid treatment. Due to widely varying conditions, Haws cannot guarantee that the use of this emergency equipment will prevent serious injury or the aggravation of existing or prior injuries.

**NO OTHER WARRANTIES EXPRESSED OR IMPLIED ARE AUTHORIZED, PROVIDED OR GIVEN BY HAWS.**

**SHOULD YOU EXPERIENCE DIFFICULTY WITH THE INSTALLATION OF THIS MODEL PLEASE CALL:**

**TECHNICAL SUPPORT: 1-800-766-5612**

**FOR CUSTOMER SERVICE: 1-888-640-4297**

**CAUTION : A GROUND FAULT DEVICE MUST BE USED WITH THIS HEATING DEVICE.**

**ATTENTION : CE PRODUIT DOIT ÊTRE UTILISÉ AVEC UNE PROTECTION DE MISE À LA TERRE.**

**THIS HEATING BLANKET IS ONLY FOR USE WITH HAWS MODEL 7603 PORTABLE EYEWASH.**

**RECOMMENDED TOOLS:** Assorted tools as needed for installing power cord (7603BL240 only).

**LOCATION OF UNIT:** The Model 7603BL/7603BL240 heated blanket should be installed over a 7603 tank in close proximity to potential accident areas. It should be clearly identified, free from obstruction, and easily accessible. **NOTE: Personal eyewash unit Models 7603BL/7603BL240 shall not be exposed to ambient temperatures exceeding 38°C (100°F).**

**ELECTRICAL SUPPLY FOR MODEL 7603BL:** 120VAC, 50/60 Hz, 1.38A. Requires a three-prong outlet. The 7603BL includes a heavy-duty 8 foot power cord with GFCI plug. Unit is suitable for installation and use in NEMA/TYP E 3R areas. Must be used with NEMA/TYP E 3R certified covered outlet (not supplied). The 7603BL is not rated for hazardous locations.

**DURING POTENTIAL FREEZING PERIODS INSURE THAT UNIT IS CONNECTED TO A CONTINUOUS POWER SUPPLY.**

**ELECTRICAL SUPPLY FOR MODEL 7603BL240:** 240VAC, 50/60 Hz, 0.64A. No power cord is supplied with the 7603BL240 and must be wired by the user. Unit is suitable for installation and use in NEMA/TYP E 4 areas. Power connection to be per local code using flexible conduit or cable rated for NEMA/TYP E 4 – no rigid connection permitted. **MUST BE PROTECTED BY a Class A GROUND FAULT CIRCUIT INTERRUPTER (GFCI). DURING POTENTIAL FREEZING PERIODS INSURE THAT UNIT IS CONNECTED TO A CONTINUOUS POWER SUPPLY.**

**AMBIENT TEMPERATURE RATINGS:**

-20°F (-29°C) TO 100°F (38°C)

## INSTALLATION PROCEDURE

**NOTE:** Instructions apply to all models unless otherwise specified.

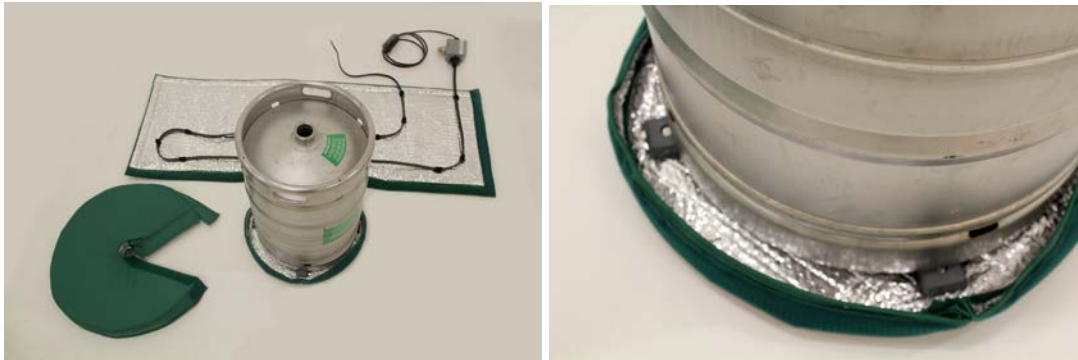
**STEP 1:** Unpack the blanket. Lay flat with inner surface (silver) up.



**STEP 2: MODEL 7603BL240 ONLY:** Install a power cord into the junction box. The junction box is undrilled – the user must drill the appropriate size hole for the electrical fitting used. Wire the power cord to terminal block referencing the supplied electrical drawing. The cord set shall be listed to UL 817 and CSA-C22.2 NO. 21 and provided with 3 wire grounding type attachment plug rated 240V minimum 15A. Cord set shall be minimum 6' length and minimum 18 GA. A listed strain relief shall be used. Power cord shall be installed by qualified personnel. The Model 7603BL240 **MUST BE PROTECTED BY** a Class A GROUND FAULT CIRCUIT INTERRUPTER (GFCI).

**NOTICE: 7603BL240 REQUIRES MINIMUM NEMA/TYP 4 COMPLIANT EQUIPMENT. ALL POWER CONNECTIONS MUST BE MADE ACCORDING TO NEC/CEC CODE USING FLEXIBLE CONDUIT OR CABLE RATED FOR NEMA/TYP 4 – NO RIGID CONNECTION PERMITTED. MODEL**

**STEP 3:** Set empty 7603 tank on top ensuring tank lip is resting on plastic feet and not crushing the heat trace.



**STEP 4:** Wrap the side blanket around the tank and attach the bottom and side Velcro closures.



**STEP 5:** Fill tank in accordance with 7603 instructions and attach the eyewash plumbing.

**STEP 6:** Attach the end of heat trace the eyewash plumbing below the ball valve with supplied cable tie. Ensure the heat trace does not interfere with the push flag operation. Remove the adhesive backing from Velcro strip on the back of the junction box and secure the junction box to the top of the tank.



**STEP 7:** Attach junction box to tank handle with cable tie.



**STEP 8:** Attach grounding clamp to tank handle. Attach second ground clamp around metal hub on the junction box. Connect the two ground clamps with the supplied grounding wire.



**STEP 9:** Attach conical top blanket with Velcro closures. Align the seam of the top blanket with the push flag. The electrical cord may exit across the Velcro seam at any location.



## **IMPORTANT SAFETY NOTICE**

**THE NATIONAL ELECTRICAL CODE REQUIRES GROUND-FAULT EQUIPMENT PROTECTION ON EACH HEATING CABLE BRANCH CIRCUIT. TO REDUCE THE RISK OF FIRE CAUSED BY DAMAGE OR IMPROPER INSTALLATION, CIRCUIT BREAKERS SUCH AS SQUARE D QO-EPD AND QOB-EPD OR EQUIVALENT, WITH A 30mA TRIP LEVEL, SHOULD BE USED. PLEASE SUBSTITUTE THESE BREAKERS WHEREVER REFERENCE IS MADE TO CONVENTIONAL BREAKERS IN THIS DOCUMENT. ALTERNATIVE DESIGNS PROVIDING COMPARABLE LEVELS OF GROUND-FAULT PROTECTION MAY ALSO BE ACCEPTABLE.**

## OPERATING INSTRUCTIONS

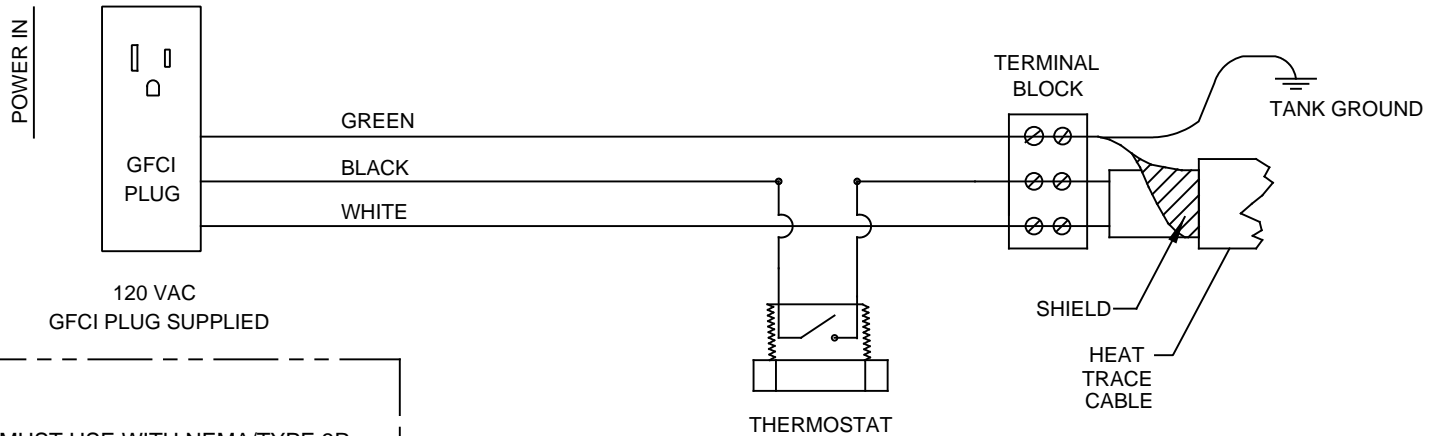
The 7603BL/7603BL240 can be connected to power year-round. The non-adjustable thermostat will shut off heat cable when air temperature rises to 82°-72°F (28°-22°C). Heat cycle will repeat when air temperature drops to between 62°-72°F (16°-22°C). Periodic check of water temperature of eyewash will confirm normal operating temperatures between 62°-95°F (16°-35°C).

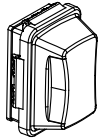
Heat trace cable used on this blanket heats slowly and may take several hours to warm cold water into ANSI recommend temperature range of 60°F (15°C) to 100°F (38°C).

<b>TROUBLESHOOTING</b>	
<b>PROBLEM</b>	<b>REPAIR CHECKLIST</b>
1. Heat trace does not turn on.	1. a. Not plugged in or no power to plug. Check GFCI plug (7603BL only) and circuit breaker.  b. If ambient temperature is high and doesn't allow the blanket temperature to drop below 67°F (19°C) the heater may not switch on. Heater settings are: Non-adjustable thermostat preset to switch on at 67°± 5°F (17°± 3°C) and switch off 77°± 5°F (25°± 3°C). Test the thermostat and heater function by applying ice thermostat for approximately 3-5 minutes. The heat trace cable should become warm to the touch when operating properly. Thermostat is located on junction box.
2. Eyewash water is above 100°F (38°C).	1. a. Ambient air temperature is above 100°F (38°C). Relocate eyewash out of direct sunlight or excess ambient temperature.  b. Shut off electric power. All electric connections are made inside the junction box. Thermostat is mounted on the side of junction box. Disconnect thermostat leads from terminal block and wire nut in junction box. Check thermostat continuity: open circuit above 82°F (28°C), closed below 62°F (16°C). Thermostat is not adjustable and should be replaced if either of the continuity checks are incorrect. If unit is subject to freezing temperatures, temporarily disconnect thermostat and reconnect wiring to bypass thermostat and protect eye wash from freezing until replacement thermostat can be installed.

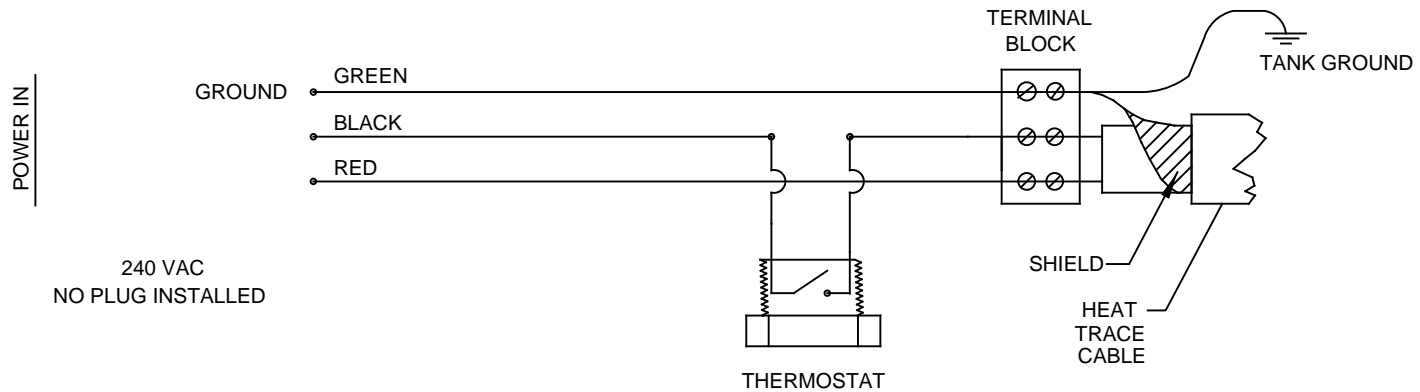
For more information on Haws products, see our website: [www.hawesco.com](http://www.hawesco.com)

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 FOR 7603BL: MUST USE WITH NEMA/TYPE 3R CERTIFIED COVERED OUTLET (NOT SUPPLIED).


**MODEL 7603BL  
ELECTRICAL DETAIL**



**MODEL 7603BL240  
ELECTRICAL DETAIL**

**FOR MODEL 7603BL240:**

1. CORD SET SHALL BE LISTED TO UL 817 AND CSA-C22.2 NO. 21 AND PROVIDED WITH 3 WIRE GROUNDING TYPE ATTACHMENT PLUG RATED 240 V, MIN. 15 A.
2. THE FLEXIBLE CORD TYPE SHALL BE TYPE S, SE, SJ, SJE, SJO, SJO, SJTO, SJTOO, SO, SOO, ST, STO, OR STOO AND HAVE A TYPE LETTER SUFFIX OF "W," "W-A" OR "OUTDOOR."
3. THE CORD SET SHALL BE MIN. 6 FT IN LENGTH AND MIN 18 AWG SIZE FOR FLEXIBLE POWER SUPPLY CORD.
4. LISTED STRAIN RELIEF BUSHING SUITABLE FOR CORD SET SIZE AND OUTDOOR USE SHALL BE USED.
5. ALL POWER CONNECTIONS MUST BE MADE ACCORDING TO NEC/CEC CODE USING FLEXIBLE CONDUIT OR CABLE RATED FOR NEMA/TYPE 4 – NO RIGID CONNECTION PERMITTED. MODEL 7603BL240 REQUIRES MINIMUM NEMA/TYPE 4 COMPLIANT EQUIPMENT.
6. THE FIELD INSTALLED POWER SUPPLY CORD SET NEEDS TO BE INSTALLED BY QUALIFIED PERSONNEL.
7. ALL MODELS MUST HAVE A GROUND FAULT PROTECTION DEVICE (30mA GFEPD) FOR HEAT TRACE. ELECTRICAL CURRENTS MAY BE INSUFFICIENT TO TRIP A CONVENTIONAL CIRCUIT BREAKER. ALL INSTALLATIONS MUST BE INSTALLED IN COMPLIANCE WITH LOCAL, STATE, AND/OR FEDERAL CODES.

		<b>Haws</b> <sup>®</sup>		1455 KLEPPE LANE SPARKS, NEVADA 89431 (775) 359-4712 FAX (775) 359-7424 E-MAIL: HAWS@HAWS.CO.COM WEBSITE: WWW.HAWS.CO.COM	
ECN NO. 5235	REVISED PER BY: MJ	MODEL(S) 7603BL / 7603BL240	PART NUMBER 0510000769.D		
DRAWN: MJ	DATE: 10/11/17	CHKD.: MJ	ELECTRICAL SCHEMATIC		REVISION 1
APPROVED: MJ	DATE: 05/29/18	SCALE: 1:1	DRAWING TYPE:	ELECTRICAL	SIZE: A SHEET 1 OF 1