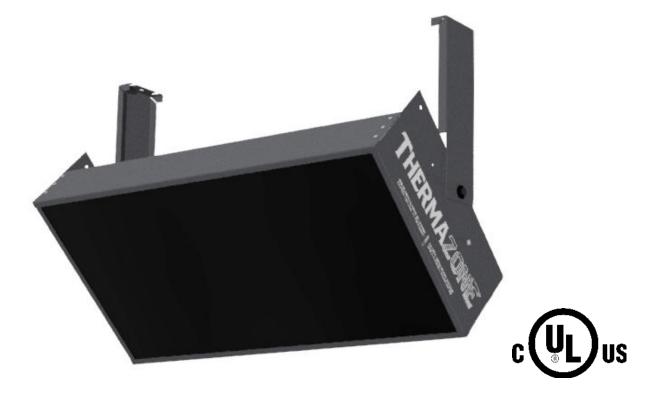


ORIGINAL DOCUMENT



THERMAZONE

COMFORT HEATERS

BERKO

470 Beauty Spot Road East – Bennettsville, SC 29512 USA (800) 642-4328 – www.marleymep.com

IMPORTANT INSTRUCTIONS:

Read all these instructions before installing or using this heater.

BERKO is interested in the safe operation of its equipment. All wiring to this equipment must be connected to the electrical source in strict accordance with National Electrical Code (N.E.C.), Canadian Electrical Code (C.E.C.), international and/or any local codes having jurisdiction.

Do not further insulate the back of the heater section which might cause a heat buildup in the wiring raceway. The back surface of the raceway should be at least 4 inches from combustible material.

Puncture of the element face may result in a shock hazard.

This heater is hot when in use. To avoid burns, do not let bare skin touch hot surfaces. Keep combustible materials, such as furniture, pillows, bedding, paper, clothes, etc. and curtains at least 3 feet from the front of the heater and keep them away from the sides and rear.

Extreme caution is necessary when any heater is used by or near children or invalids and whenever the heater is left operating and unattended.

Do not operate any heater after it malfunctions. Disconnect power at service panel and have heater inspected by a reputable electrician before reusing.

To disconnect the heater, turn off power to heater circuit at main disconnect panel.

Do not insert or allow foreign objects to enter any ventilation opening as this may cause an electric shock or fire, or damage to the heater.

A heater has hot and arcing or sparking parts inside. Do not use it in areas where gasoline, paint, or flammable vapors or liquids are used or stored.

Use this heater only as described in this manual. Any other use not recommended by the manufacturer may cause fire, electric shock, or injury to persons.

SAVE THESE INSTRUCTIONS

INSTALLATION:

All wiring to this equipment must be connected to the electrical source in strict accordance with National Electrical Code (N. E. C.), Canadian Electrical Code (C.E.C.), international and/or any local codes having jurisdiction.

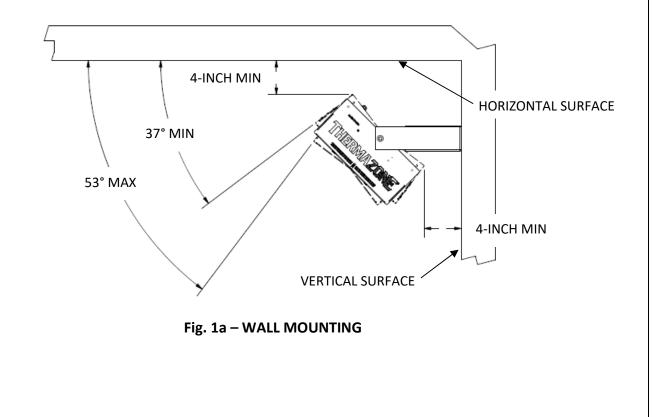
FOR WALL MOUNTING:

Do not install the section closer than:

- 4 inches to a horizontal surface
- 12 inches to an adjacent vertical surface
- 36 inches to another heater
- 6 feet from the floor

For angle positioning, the heater should not be directed toward any vertical surface closer than 6 feet.

IMPORTANT: When using the mounting brackets, a minimum of 4 inches should be left between the corners of the heating section and any horizontal or vertical surface. See drawing below.



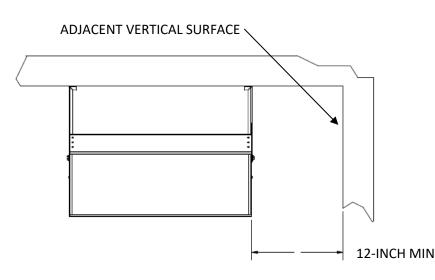


Fig. 1b – WALL MOUNTING

Once the heater is mounted to the wall, position the heater to the desired angle between 37° and 53° downward from the horizontal, limited by the flanges of the mounting bracket. Tighten the two bolts to secure the heater.

WARNING! Risk of fire. Do not position any heater at an angle not allowed by the flanged bracket (37°-53°).

FOR CEILING MOUNTING:

Do not install the section closer than:

- 36 inches to a vertical surface for vertical mounting
- 4 inches to a vertical surface for angled ceiling mounting
- 12 inches to an adjacent vertical surface
- 36 inches to another heater
- 6 feet from the floor

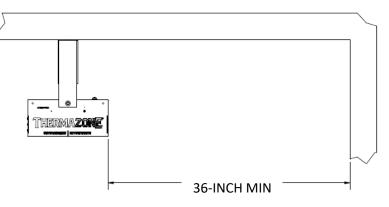
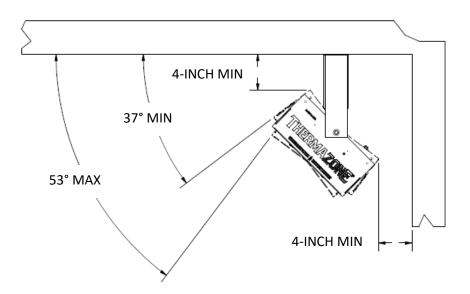
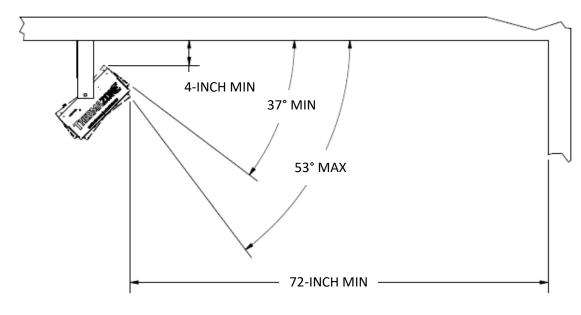


Fig. 2 – CEILING MOUNTING VERTICAL









PROTECTED AREA MOUNTING:

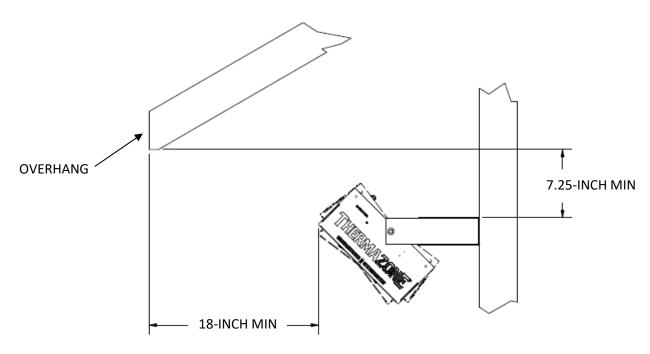
A *Protected Area* is defined as "Located in an area that is partially protected from the effects of weathering." Typical *protected areas* would be the underside of a pavilion with a roof, garage port, and the like.

FOR PROTECTED AREA WALL MOUNTING:

Adhere to all requirement for mounting listed above. Additionally:

Do not install the section closer than 18 inches to edge of overhang of roof and no more than 7.25 inches (to top of bracket) below the edge.

The heater needs to be installed in a position such that it is protected from rain, snow, and similar outdoor wet areas.





FOR PROTECTED AREA CEILING MOUNTING:

Adhere to all requirements for Ceiling Mounting listed above. Additionally:

Do not install the section closer than 18 inches to edge of overhang of roof.

The heater needs to be installed in a position such that it is protected from rain, snow, and similar outdoor wet areas.

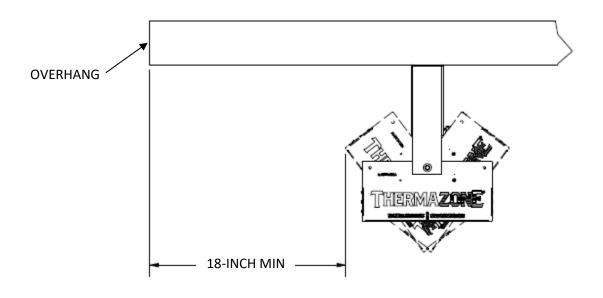


Fig. 6 – PROTECTED AREA CEILING MOUNTING

For supply connections use the wire size (or larger) as directed by the chart below. All wires must be suitable for at least 75°C (167°F).

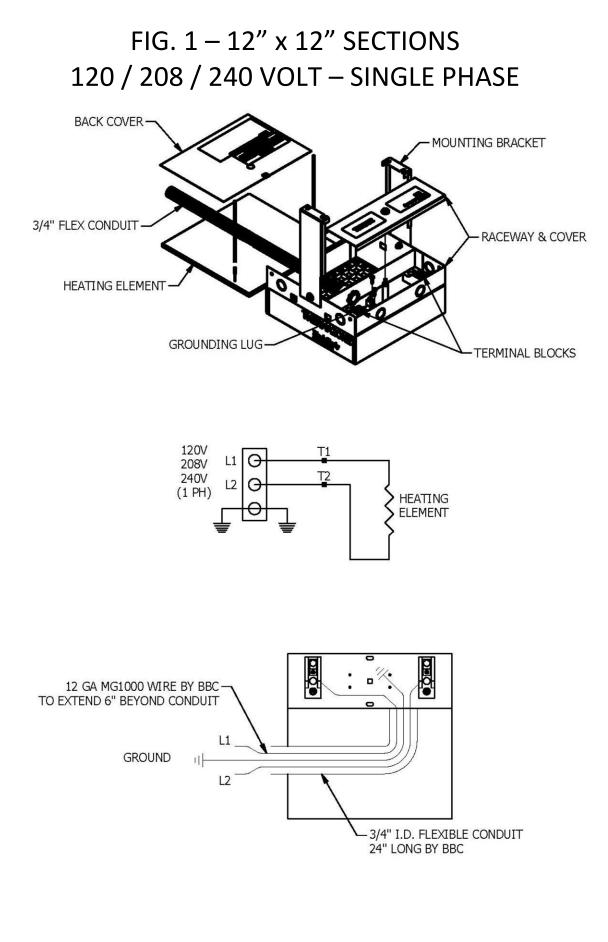
		SINGLE PH	ASE SECTION	S		
MODEL NUMBER	120 VOLT	208/240 VOLT	277 VOLT	347 VOLT	480 VOLT	600 VOLT
	AWG.	AWG.	AWG.	AWG.	AWG.	AWG.
	WIRE SIZE	WIRE SIZE	WIRE SIZE	WIRE SIZE	WIRE SIZE	WIRE SIZE
BR-STS-U12-0871B	14	-	-	-	-	-
BR-STS-U12-1081B	14					
BR-STS-U12-1111B	12	-	-	-	-	-
BR-STS-U12-1681B						
BR-STS-U12-1436J	-	14		-		-
BR-STS-U24-1316B	14	-	-	-	-	-
BR-STS-U24-1659B	12	-	-	-	-	-
BR-STS-U24-2192B	10					
BR-STS-U24-2222B	10	-	-	-	-	-
BR-STS-U24-3363B	8	-	-	-	-	-
BR-STS-U24-1015V						
BR-STS-U24-1297V						
BR-STS-U24-1701V	-	14	-	-	-	-
BR-STS-U24-2001V						
BR-STS-U24-2428V						
BR-STS-U24-3239V	-	12	-	-	-	-
BR-STS-U24-1982N						
BR-STS-U24-2388N	-	-	14	-	-	-
BR-STS-U24-3008N						
BR-STS-U24-2060I						
BR-STS-U24-2488I	-	-	-	14	-	-
BR-STS-U24-3176I						
BR-STS-U48-2030V		14	_	_	_	_
BR-STS-U48-2594V		14	_	_	_	_
BR-STS-U48-3402V	-	12	-	-	-	-
BR-STS-U48-4002V	_	10	-	_	_	-
BR-STS-U48-4856V		10	_	_	_	_
BR-STS-U48-6478V	-	8	-	-	-	-
BR-STS-U48-2030T	_	14		-	14	-
BR-STS-U48-2594T	_	14	_	_	14	_
BR-STS-U48-3402T	-	12	-	-	14	-
BR-STS-U48-4002T	_	10	-	-	14	-
BR-STS-U48-4856T						
BR-STS-U48-6478T	-	8	-	-	12	-
BR-STS-U48-3964N	-	-	12	-	-	-

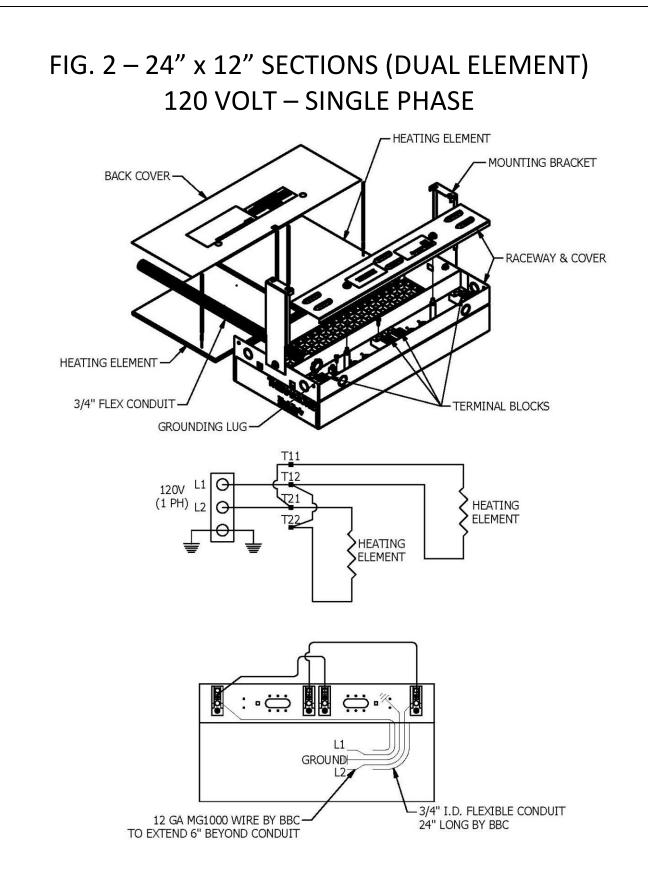
SINGLE PHASE SECTIONS – Continued									
MODEL NUMBER	120 VOLT	208/240 VOLT	277 VOLT	347 VOLT	480 VOLT	600 VOLT			
	AWG. WIRE SIZE	AWG. WIRE SIZE	AWG. WIRE SIZE	AWG. WIRE SIZE	AWG. WIRE SIZE	AWG. WIRE SIZE			
BR-STS-U48-4776N BR <u>-</u> STS-U48-6056N	-	-	10	-	-	-			
BR-STS-U48-2014I BR-STS-U48-2502I BR-STS-U48-3206I	-	-	-	14	-	-			
BR-STS-U48-4120I BR-STS-U48-4976I	-	-	-	12	-	-			
BR-STS-U48-6352I	-	-	-	10	-	-			
BR-STS-U48-4042Y BR-STS-U48-4878Y BR-STS-U48-6118Y	-	-	-	-	-	14			
3-PHASE SECTIONS									
MODEL NUMBER	120 VOLT AWG. WIRE SIZE	208 / 240 VOLT AWG. WIRE SIZE	277 VOLT AWG. WIRE SIZE	347 VOLT AWG. WIRE SIZE	480 VOLT AWG. WIRE SIZE	600 VOLT AWG. WIRE SIZE			
BR-STS-U24-1992P BR-STS-U24-2442P BR-STS-U24-3041P	-	14	-	-	-	-			
BR-STS-U48-3971P	-	14	-	-	-	-			
BR-STS-U48-4794P BR-STS-U48-5954P	-	12	-	-	-	-			
BR-STS-U48-3928U BR-STS-U48-4838U BR-STS-U48-6060U	-	-	-	-	14	-			
BR-STS-U48-3963Z BR-STS-U48-4797Z BR-STS-U48-5982Z	-	-	-	-	-	14			

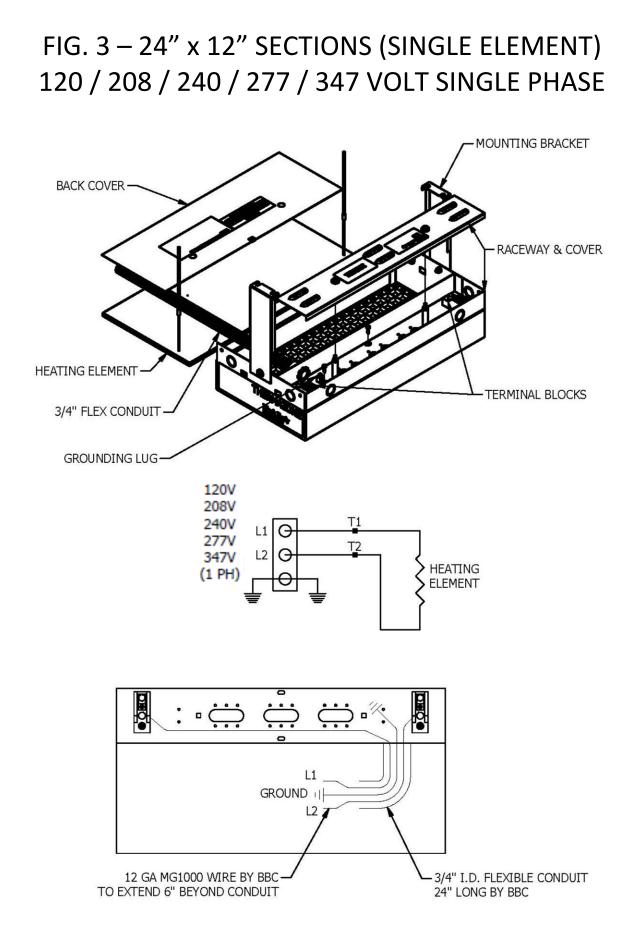
To reduce the risk of fire, do not store or use gasoline or other flammable vapors and liquids in the vicinity of the heater.

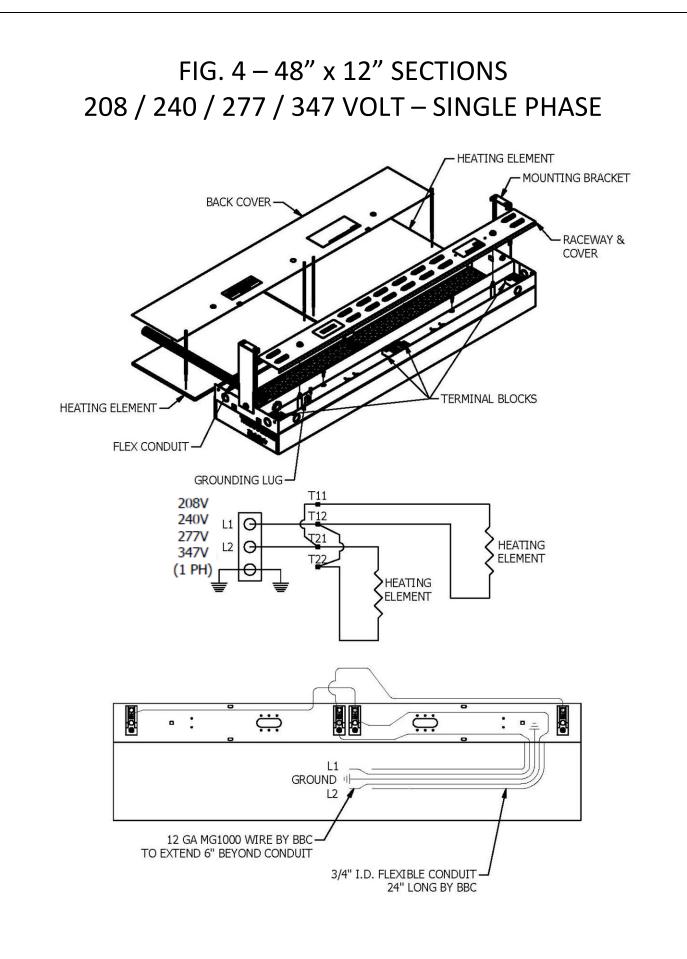
<u>CAUTION</u> – High temperature, risk of fire, keep electrical cords, drapery, furnishings, and other combustibles at least 6 feet (0.9 m) from the front of the heater and away from the side and rear.

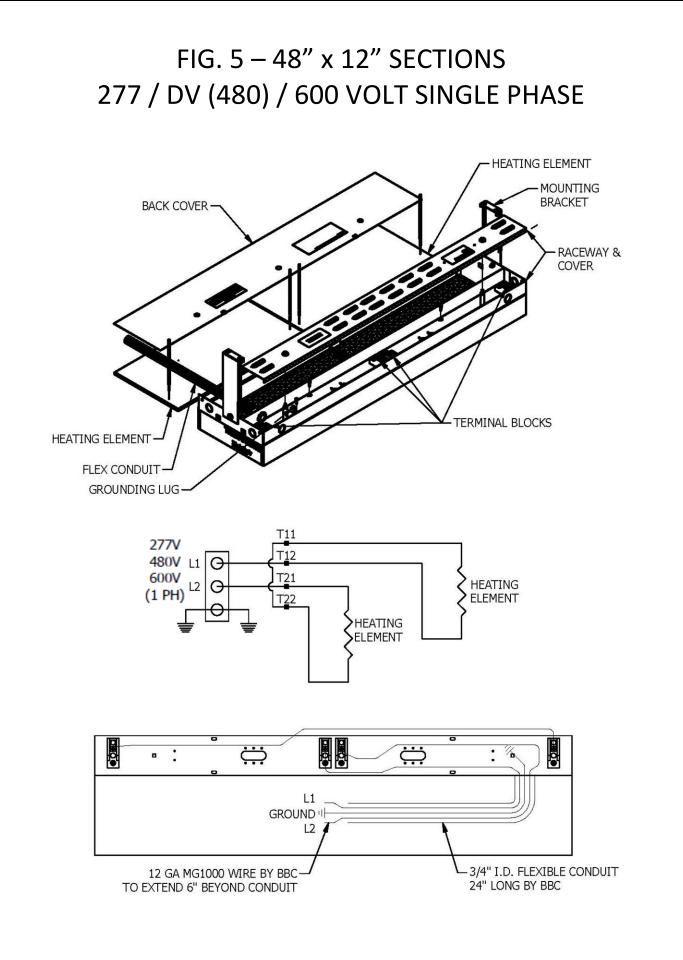
WIRING DIAGRAMS

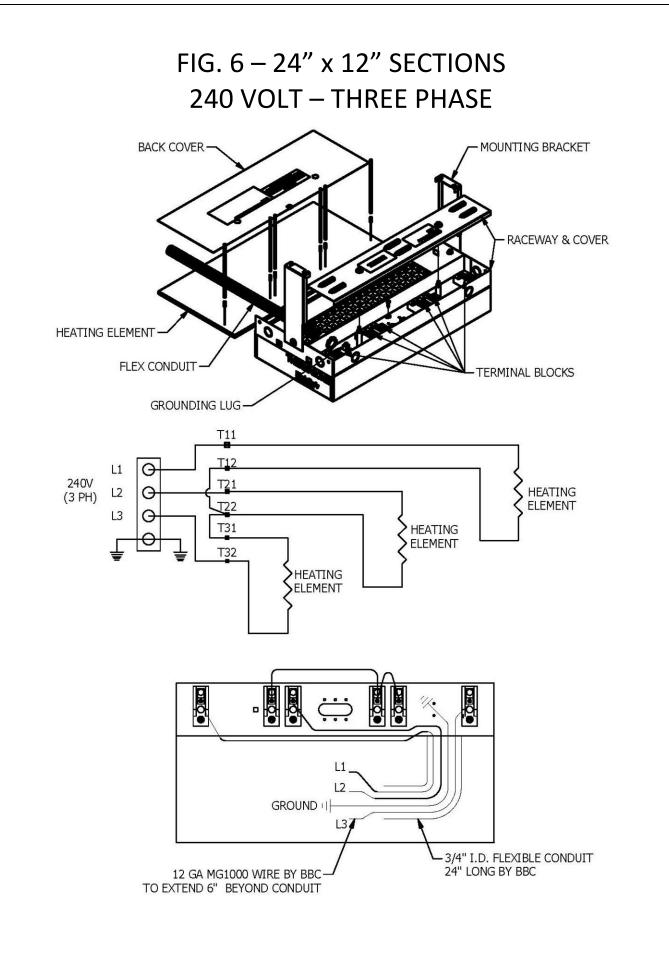


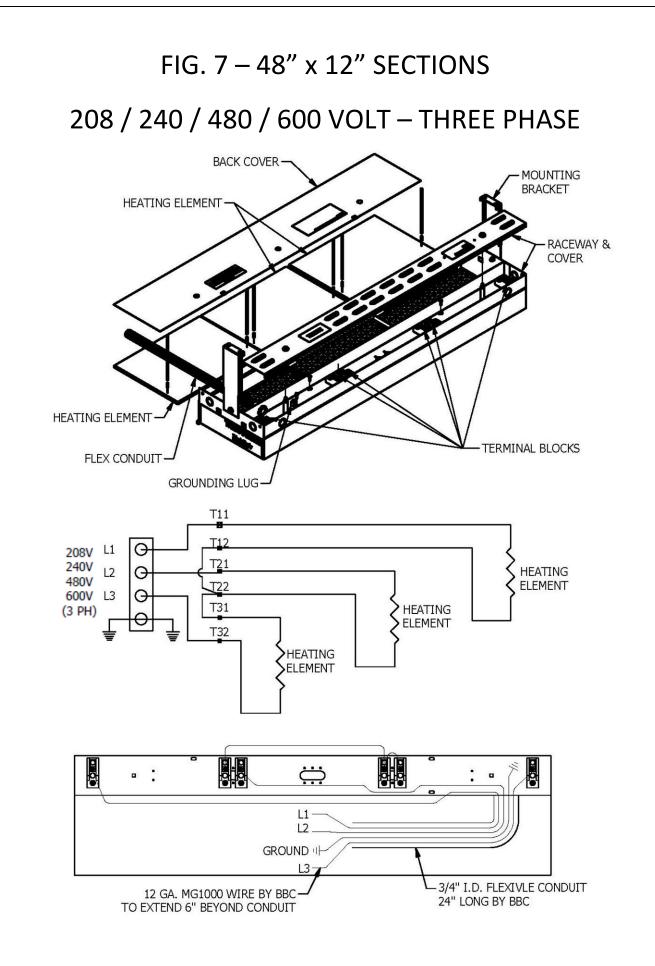
















Heaters must be properly installed before use.

Do not operate heaters without all covers in place.

No user maintenance is needed for heaters. Any other servicing should be performed by authorized service personnel.

During production, the heating element of this unit may have absorbed moisture. The first time your heater is turned ON, it may smoke/steam while the moisture is released. This smoke/steam is NORMAL and not harmful. It will stop after 10-15 minutes of operation and not occur after first use.