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# INSTALLATION, OPERATING AND MAINTENANCE INSTRUCTIONS FOR UNIT HEATERS “Series OWD”

## INSTALLATION

1. **Caution:** This equipment should be installed by qualified personnel only.

## MECHANICAL INSTALLATION

2. Install the heater at least 6 feet (1.80m) from the floor and 8” (203 mm) from the wall or ceiling.
3. Install the heater to a wall or ceiling as shown on the reverse side.
4. If louvered grille is furnished with the unit, it can be installed with louvers deflecting the air up, down or sideways.

## ELECTRICAL INSTALLATION

5. Follow the wiring diagram on the inside of the control enclosure.
6. Supply connections must be made with copper wiring rated for at least 90°C (194°F), with terminal fittings rated for the application.
7. If supply connections are for 250 volts or greater, all wiring must be insulated for 600 volts.
8. All supply connections must be made according to applicable regulations.
9. Supply conductors must be sized for at least 125% of the rated load, as shown on the nameplate, calculated as follows:

$$\text{Single Phase Units} = \frac{\text{Kilowatts per set of terminals} \times 1250}{\text{Voltage}}$$

$$\text{Three Phase Units} = \frac{\text{Kilowatts per set of terminals} \times 1250}{\text{Voltage} \times 1.73}$$

Each set of terminals carries an equal KW load unless otherwise noted on the wiring diagram.

10. If not built in, install a line disconnect switch or main circuit breaker in accordance with local and national codes.
11. All electrical connections in the heaters, including both field and factory-made connections, should be checked

for tightness before operating the heater. In addition, after a short period of operation, all connections should again be checked for tightness.

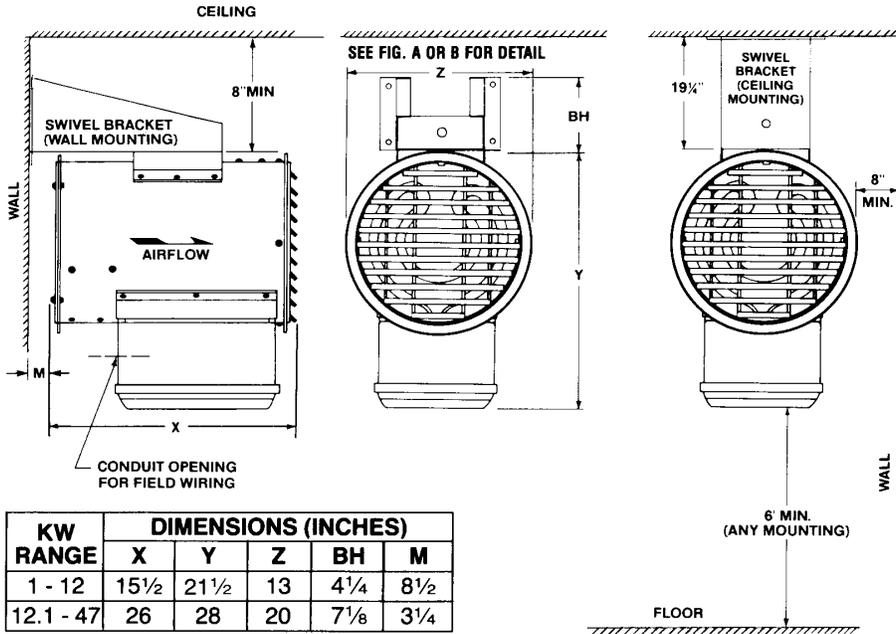
## OPERATING AND MAINTENANCE

12. All source of power must be disconnected before working on this equipment. To avoid injury and electric shock, do not perform any service other than that which is contained in the Operating & Maintenance Instructions.
13. Maximum ambient temperature in which the heater can be operated is 79°F (26°C).
14. To operate the heater, make sure all enclosure covers are closed securely, and all associated control equipment is on; energize main supply disconnect; if a thermostat is controlling the heater, set it above the ambient temperature. If the heater is provided with a selector switch, it must be in the ON position.
15. When the heater is equipped with a built-in time delay relay, the fan will remain in operation for about a minute to cool the elements after the heater is switched off either by the thermostat or the selector switch. Do not turn heater off at main disconnect switch, as this prevents the fan from cooling the elements.
16. During normal operation, the limit controls are not supposed to cycle the heater ON and OFF. If frequent tripping of the limit controls occurs, check to see if the inlet or the outlet of the heater is blocked in some way. If no obstruction is visible, the heater has to be examined by qualified service personnel before further operation to determine the cause of nuisance tripping.
17. The heater can be washed down with water, only if the nameplate on the heater shows that it is rated “Wash Down.”
18. At least once at each year, check all electrical connections, enclosure cover screws and fan blade screws for tightness.

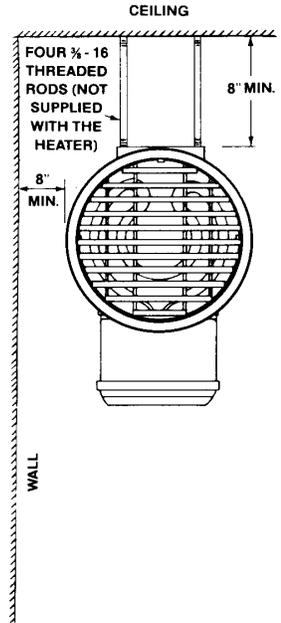
**Keep these instructions  
for future reference.**

# WASHABLE UNIT HEATER

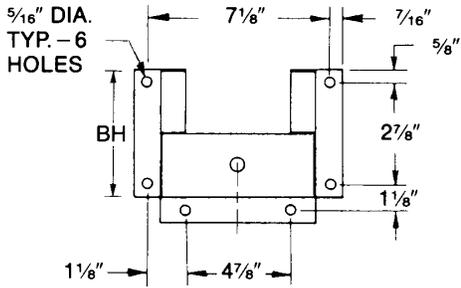
## STANDARD WALL AND CEILING INSTALLATION WITH SWIVEL MOUNTING BRACKET



## OPTIONAL CEILING INSTALLATION WITH FOUR THREADED RODS

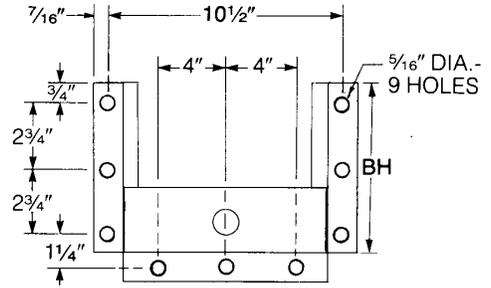


KW RANGE	DIMENSIONS (INCHES)				
	X	Y	Z	BH	M
1 - 12	15 1/2	21 1/2	13	4 1/4	8 1/2
12.1 - 47	26	28	20	7 1/8	3 1/4



**FIGURE A**  
(1 - 12 KW)

### MOUNTING HOLE DETAIL - REAR VIEW OF BRACKETS



**FIGURE B**  
(12.1 - 47 KW)