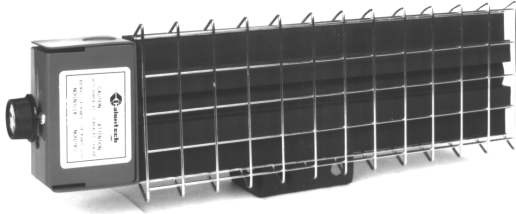


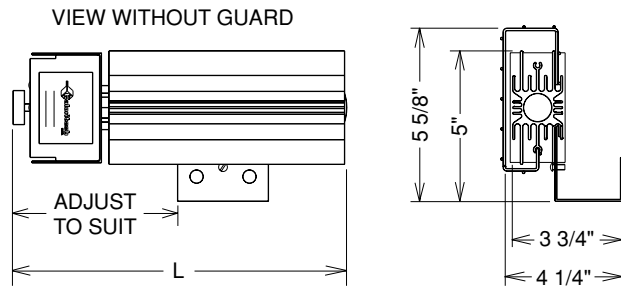
CONTROL PANEL AND PUMP HOUSE HEATER - MODEL EPH

APPLICATION

Model EPH heater is designed to maintain a suitable temperature inside a control enclosure, pump house or similar space. The standard unit is not suitable for use outdoors, unprotected from the weather. All heaters have a built-in thermostat. The heater is also available without thermostat on special order.



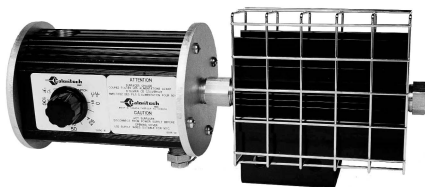
GUARD OPTIONAL ON SOME UNITS



FEATURES

Model EPH uses a high surface area aluminum heat emitter to eliminate the need for a fan while providing low radiation and high convection heating to the enclosure. The **thermostat rating** is 25A at 240V, S.P.S.T., adjustable from 30-120°F (0 to 50°C). A **movable bracket** allows the heater to be floor or wall mounted with the terminal box located on the left or right side, top or bottom. **Wire guards** are provided standard with the EPH-300,400 and 600 watt heaters, and are available as an option on the EPH-050, 125 and 200 watt units.

Moisture resistant heaters (shown below) are available on special order.



SELECTION

The wattage requirement is determined from a consideration of the surface area, insulation properties of the enclosure or space and the temperature difference between the ambient and the enclosure. For small enclosures (less than 100 ft² surface area) conservative values for heat losses are as shown in Table 1.

TABLE 1 - WATTS/FT² PER 10°F TEMP. DIFFERENCE

	INDOORS	OUTDOORS
UNINSULATED	5	7
INSULATED (MIN. 1")	1	1.2

EXAMPLE - To find wattage requirements in an uninsulated enclosure 2' x 3' x 1/2', which must be held at 40°F in a 10°F outdoor ambient.

- Surface Area = 2 (2 x 3 + 2 x 1/2 + 3 x 1/2) = 17 ft²
From Table 1, an uninsulated outdoor enclosure requires 7 watts for each 10°F temperature difference.
- Temperature Diff. = 40°F - 10°F = 30°F
- Wattage Rating Required = (30°F / 10°F) x 7 x 17 = 357 watts

Use one EPH400 rated at 400 watts

For enclosures requiring more than 600 watts, two or more EPH heaters can be used. Higher wattage heaters are available. Check factory.

INSTALLATION

Model EPH heater is approved for horizontal or vertical mounting on the floor or lower wall of the enclosure. Heaters must be installed using the mounting bracket provided to ensure minimum spacing between the heater and the wall or floor. Try to maximize the spacing between the heater and temperature sensitive components.

Surface temperatures of the 50 watt and 125 watt units are about 100°C (212°F) and 170°C (338°F) respectively. The other units listed operate around 210°C (410°F).

TABLE 2 - MODEL EPH CONTROL PANEL AND PUMP HOUSE HEATERS

SIZE WATTS	STANDARD VOLTAGES	LENGTH 'L' IN (MM)	NET WT. LBS (KG)
50	120	8 3/8 (213)	2.6 (1.1)
125	120	8 3/8 (213)	2.6 (1.1)
200	120	8 3/8 (213)	2.9 (1.3)
300	120, 240	15 (381)	3.5 (1.6)
400	120, 240	21 3/4 (553)	5.5 (2.5)
600	120, 240	28 1/2 (724)	7.5 (3.4)

TO ORDER: Specify quantity, model number, voltage, and special features.