# KFEHK PTC HEATER

- Compact heater in PTC technology
  - Maintains minimum operating temperatures in enclosures
  - Helps to prevent failure of electronic components caused by condensation and corrosion
- Heating power adjusts to ambient temperature
- DIN rail mountable
- CE

| Model Number 110-250VAC | Power* | Max. Current** | Length (L) | Weight |
|---|---|---|---|---|
| KFEHK45 | 45W | 0.20A | 4.1”/105 mm | 0.61 lbs (280 g) |
| KFEHK100 | 100W | 0.47A | 6.1”/155 mm | 0.88 lbs (400 g) |
| KFEHK150 | 150W | 0.77A | 9.1”/230 mm | 1.30 lbs (590 g) |

* At 68ºF (20ºC) ambient temperature
** Inrush current

KFEHK Heaters are UL approved when used in conjunction with a KFST Thermostat.

## TECHNICAL DATA

| | |
|---|---|
| Operating voltage: | AC/DC 100 - 250 V (other voltages also available) |
| Heating element: | PTC resistor, self-regulating |
| Heating body: | Anodized extruded aluminum |
| Protection class: | I, appliance |
| Protection type: | IP 44 |
| Mounting: | Clip for 35 mm DIN rail (EN 50022) |
| Agency approvals: | CE |

**Applications:**

Electrical & Electronic enclosures
Telecommunications systems
Display panels
Automatic teller machines (ATM’s)
Access & Parking control systems
Ticket dispensers

Determining the required heater size:

$$P_H = ( A \times \Delta T \times k) - P_V$$

$P_H$ = Required heating power for your application in Watts (W)

$P_V$ = Heating power generated by existing components (e.g. a transformer) in Watts (W)

A = Exposed enclosure surface area in square meters (m²)

$\Delta T$ = Temperature differential between the desired minimum interior temperature and the lowest possible external temperature of the enclosure in Kelvin (K), 1.8ºF = 1ºC = 1K

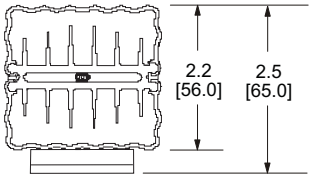
k = Heat transmission coefficient of the enclosure material used:

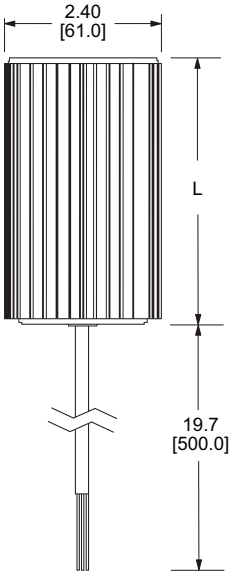
| | |
|---|---|
| Painted steel: | 5.5W/m²K |
| Stainless steel: | 3.7W/m²K |
| Aluminum: | 12W/m²K |
| Polyester/Plastic: | 3.5W/m²K |

For outdoor applications it is recommended to double the heating power.

## DRAWINGS

Dimensions, inches [mm], are for reference only and are subject to change.




Specifications are subject to change without notice. Suitability of this product for its intended use and any associated risks must be determined by the end customer/buyer in its final application.



Kooltronic, Inc., 30 Pennington-Hopewell Road, P.O. Box 240, Pennington, NJ 08534-0240
Tel: (609) 466-3400 Fax: (609) 466-1114 Internet: www.kooltronic.com E-Mail: sales@kooltronic.com