

PTC FAN HEATER

STANDARD FEATURES

- Compact fan 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
- Integrated adjustable thermostat and control light
- DIN rail mountable

Find additional information on this model at kooltronic.com, or use the Technical Documents QR code below.

Technical Documents

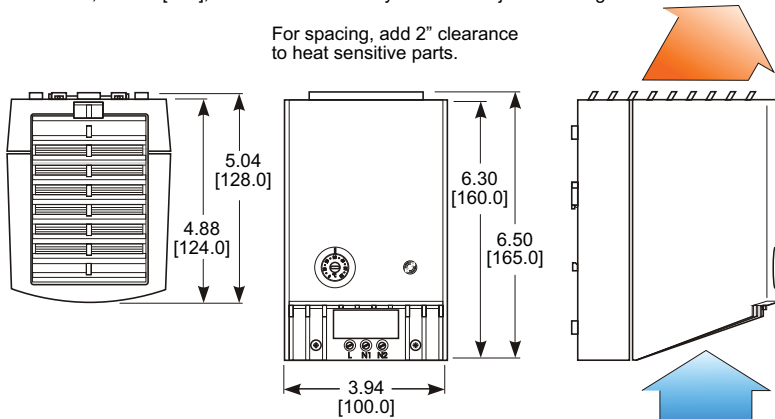


Model No.	Voltage	Heating capacity (@ 50Hz)*	Heating capacity (@ 60Hz)*	Max. current (inrush)	Axial Fan (ball bearing)	Thermostat range	Weight
KSFH550AT	100-120VAC	400W	550W	14A	20 cfm (35 m ³ /h)	32 - 140°F	2 lbs/0.9 kg
KSFH650AT	100-120VAC	510W	650W	15A	26 cfm (45 m ³ /h)	32 - 140°F	2.4 lbs/1.1 kg
K2SFH400AT	220-240VAC	475W	550W	11A	20 cfm (35 m ³ /h)	0 - 60°C	2 lbs/0.9 kg
K2SFH550AT	220-240VAC	550W	650W	13A	26 cfm (45 m ³ /h)	0 - 60°C	2.4 lbs/1.1 kg

*at 68°F (20°C) ambient temperature.

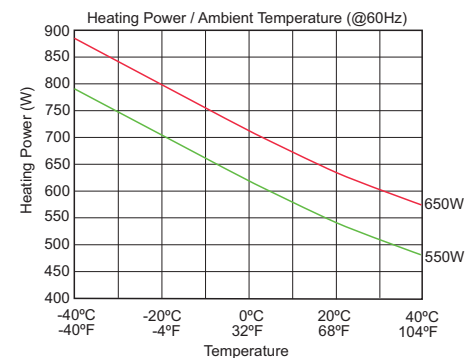
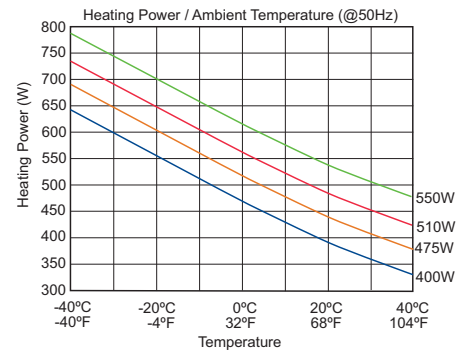
DRAWINGS

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



TECHNICAL DATA

- Heating element: PTC-semiconductor/resistor, self-regulating with changing ambient temperature (see graph below)
- Overheat protection: Built-in temperature limiter in case of fan failure
- Function control light: LED
- Housing: Plastic, UL94V-0
- Connection: 2-pole terminal, AWG 14 max. (2.5 mm²)
- Mounting: Clip for 35mm DIN rail (EN 50022)
- Protection class: II (double insulated)
- Protection type: IP 20



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)
- ΔT = Temperature differential between the desired minimum interior temperature and the lowest possible external temperature of the enclosure in Kelvin (K), 1.8°F = 1°C = 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.

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.

ksth.qxd (1/11/21) (CDR: 20293)



Applications:

- Access & Parking control systems
- Display panels
- Personnel Environmental booths
- Ticket dispensers
- Automatic teller machines (ATM's)
- Electrical & Electronic enclosures
- Telecommunications systems

HOW TO ORDER
Specify model number.