

COMPACT FAN HEATER

STANDARD FEATURES

- Small, compact size fan heater
 - Maintains minimum operating temperatures in enclosures
 - Helps to prevent failure of electronic components caused by condensation and corrosion
- Built-in overheat protection
- Heater can be purchased separately for OEM use*
- DIN rail mountable



Model Number

Watts	Complete Fan Heater		Heater Only	
	120 VAC	230 VAC	120 VAC	230 VAC
100W	KSFHL100	K2SFHL100	KSEHV100	K2SEHV100
150W	KSFHL150	K2SFHL150	KSEHV150	K2SEHV150
200W	KSFHL200	K2SFHL200	KSEHV200	K2SEHV200
300W	KSFHL300	K2SFHL300	KSEHV300	K2SEHV300
400W	KSFHL400	K2SFHL400	KSEHV400	K2SEHV400

Applications:

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

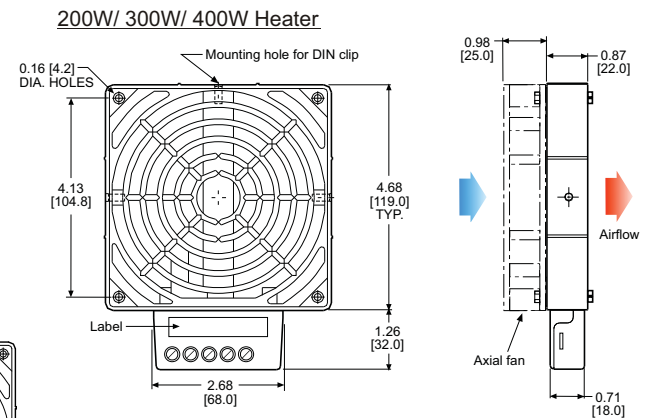
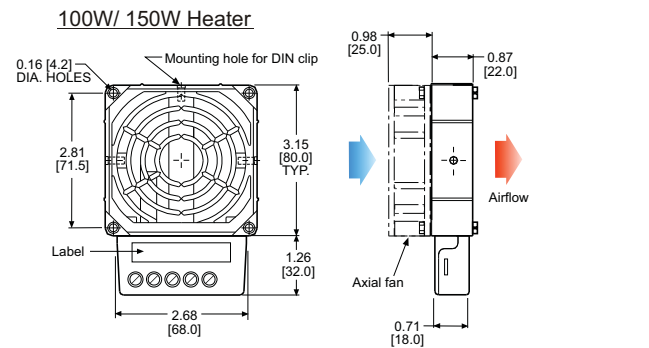


TECHNICAL DATA

Heating element:	Resistance type cartridge heater
Heat sink:	Die-cast aluminum, glass bead finish
Required fan size: (included with KSFHL heaters)	100/150W: 80 x 80 x 25 mm min. air flow: 20 cfm (35 m³/h) 200/300/400W: 120 x 120 x 25 mm min. air flow: 63 cfm (108 m³/h)
Overheat protection:	Built-in temperature limiter
Air exit temperature:	Approx. 113°F (45°C) 2" (50 mm) above heater
Wiring compartment:	Plastic UL 94V-0
Connection (heater):	3-pole terminal, AWG 14 max. (2.5 mm²)
Connection (axial fan):	2-pole terminal (L2/N2), AWG 14 max. (2.5 mm²)
Mounting:	Clip for 35 mm DIN rail (EN 50022)
Protection class:	I (grounded)
Protection type:	IP 20
Weight:	100/150W: 0.6 lbs (240 g) without fan 200/300/400W: 1.1 lbs (490 g) without fan

DRAWINGS

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



Caution: Heater may only be operated with fan!

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)

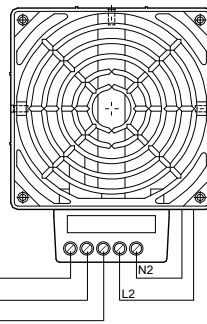
A = Exposed enclosure surface area in square meters (m²)

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.



HOW TO ORDER
Specify model number.

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

Technical Documents



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.

ksfhl-compact.qxd (1/11/21) (CDR: 20293)