

COMPACT FAN HEATER

HGL Series



- ✓ Compact Fan Heater for Increased Heat Output
- ✓ Built-In Overheat Protection
- ✓ DIN Rail Mountable
- ✓ Maintains Minimum Operating Temperatures in Enclosures
- ✓ Helps to Prevent Failure of Electronic Components Caused by Condensation and Corrosion

The HGL Series compact heater is designed for many different applications including electrical and electronic enclosures, display panels, access and parking control systems and personnel booths.

To determine the required heater size follow this equation:

$$PH = (A \times \Delta T \times k) - P_v$$

PH = 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 square meters (m²)

ΔT = Temperature differential between the desired minimum interior temperature and 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:
 Stainless Steel: 3.7 W/m²K
 Painted Steel: 5.5 W/m²K
 Aluminum: 12 W/m²K
 Polyester/Plastic: 3.5 W/m²K

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

Specifications

Operating Voltage: 110 to 120 Vac, 50/60 Hz

Wattage:

HGL40900: 250 W

HGL41900: 400 W

Heating Element: Micanite

Heat Sink: Extruded aluminum profile, silver anodized

Surface Temperature: Max 75°C (167°F)—400 W heater

Overheat Protection: Built-in temperature limiter

Air Exit Temperature: Approx. 45°C (113°F) 50 mm (2") above heater

Axial Fan: Ball bearing, 50,000 h at 25°C (77°F)

Air Flow, Free Blowing, AC: 26 cfm (45 m³/h), 50 Hz; 32 cfm (54 m³/h), 60 Hz

Connection: Internal termination AWG 16 max [1.5 mm² (0.06 in²), with strain relief

Mounting: Clip for 35 mm (1.4") DIN rail (EN 50022)

Operating/Storage Temperature: -45 to 70°C (-49 to 158°F)

Protection Class: I (grounded)

Protection Type: NEMA 2 (IP20)

Weight:

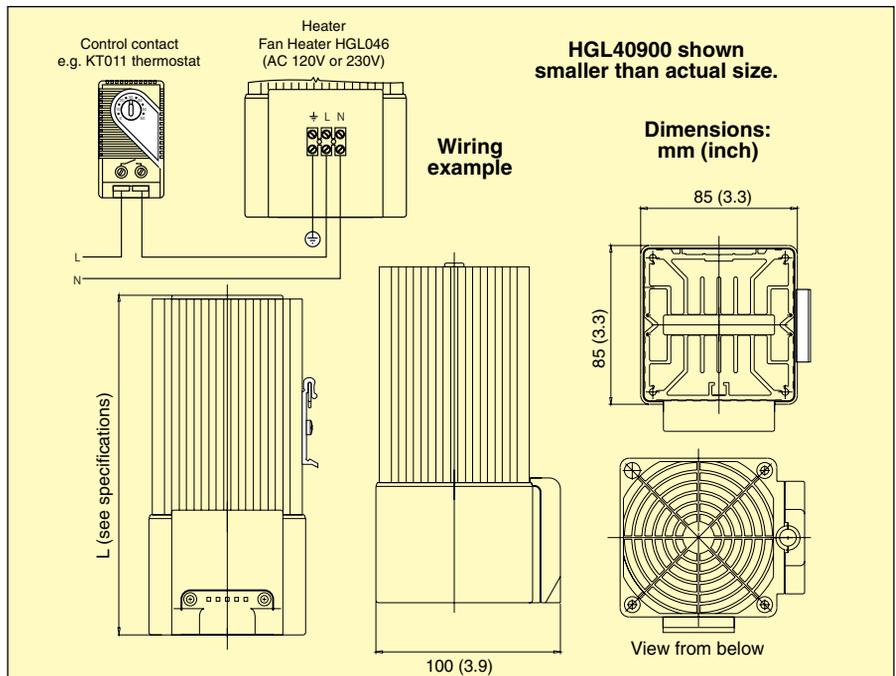
HGL40900: 1.1 kg (2.4 lb)

HGL41900: 1.4 kg (3.1 lb)

Length (L) (See Drawing Below):

HGL40900: 182 mm (7.2")

HGL41900: 222 mm (8.7")



To Order

Model No.	Description
HGL40900	Fan heater, 250 W, 120 Vac
HGL41900	Fan heater, 400 W, 120 Vac

Comes complete with operator's manual.

Ordering Example: HGL40900, fan heater, 250 watts.