

# FAN HEATER

## CR27 Series



- ✓ Compact Fan Heater in PTC Technology
- ✓ Heating Power Adjusts to Ambient Temperature
- ✓ Integrated Adjustable Thermostat and Control Light
- ✓ DIN Rail Mountable

An easy DIN rail mountable design makes the CR27 Series fan heater an ideal accessory for any enclosure. The CR27 maintains minimum operating temperatures in enclosures and helps to prevent failure of electronic components caused by condensation and corrosion.

To determine the required heater size follow this equation:

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

**PH** = Required heating power for your application in Watts (W)

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

**A** = Exposed enclosure surface area square meters (m<sup>2</sup>)

**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/m<sup>2</sup>K

Painted Steel: 5.5 W/m<sup>2</sup>K

Aluminum: 12 W/m<sup>2</sup>K

Polyester/Plastic: 3.5 W/m<sup>2</sup>K

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

## Specifications

**Heating Element:** PTC-semiconductor/resistor, self-regulating with changing ambient temperature (see graph)

**Thermostat Range:** 0 to 60°C (32 to 140°F)

**Overheat Protection:** Built-in temperature limit in case of fan failure

**Function Control Light:** LED

**Housing:** Plastic, UL94V-0

**Dimensions:**  
165 H x 100 W x 128 mm D  
(6.5 x 3.94 x 5")

**Connection:** 2-pole terminal, 2.5 mm<sup>2</sup> (AWG 14 max)

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

**Protection Class:** II (double insulated)

**Protection Type:** NEMA 2 (IP20)

**Axial Fan (Ball Bearing):**

CR2700900,  
CR2700901:  
35 m<sup>3</sup>/h (20 cfm)

CR2701900,  
CR2701901:  
45 m<sup>3</sup>/h (26 cfm)

**Max Current (Inrush):**

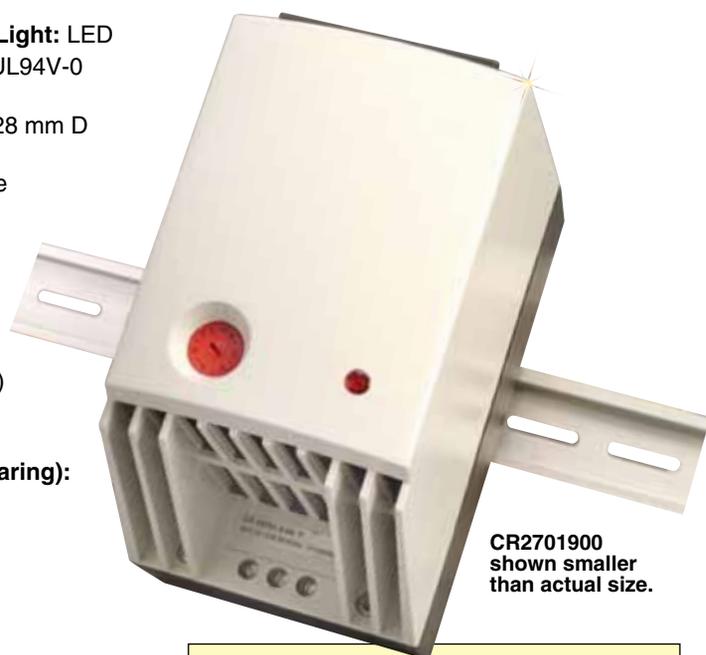
CR2700900,  
CR2700901: 14 A

CR2701900,  
CR2701901: 15 A

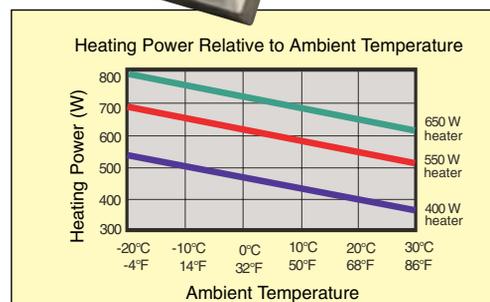
**Weight:**

CR2700900,  
CR2700901: 0.9 kg (2 lb)

CR2701900,  
CR2701901: 1.1 kg (2.4 lb)

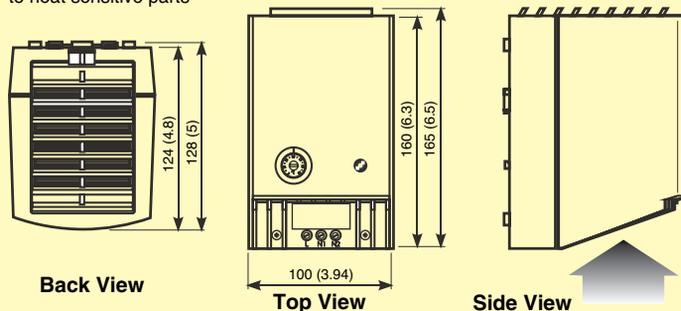


CR2701900 shown smaller than actual size.



## Dimensions: mm (inch)

For spacing, add 51 mm (2") clearance to heat sensitive parts



## To Order

Model No.	Description
CR2700900	Fan heater, 550 W, 120 Vac, with adjustable thermostat 32 to 140°F
CR2700901	Fan heater, 550 W, 120 Vac, with adjustable thermostat 0 to 60°C
CR2701900	Fan heater, 650 W, 120 Vac, with adjustable thermostat 32 to 140°F
CR2701901	Fan heater, 650 W, 120 Vac, with adjustable thermostat 0 to 60°C
XBANS3575P	DIN rail 35 x 7.5 mm x 2 m (1.4 x 0.30" x 6') slotted

Comes complete with operator's manual.

**Ordering Examples:** CR2700900, fan heater, 550 W, 120 Vac, with adjustable thermostat 32 to 140°F.

CR2701901, fan heater, 650 W, 120V, with adjustable thermostat, 0 to 60°C.