

VENTILATION SYSTEMS

INDUSTRIAL ELECTRIC HEATER

54 kW electric heater for tanks and enclosed spaces



Industrial electric heaters provide clean, dry, hot temperatures for large-capacity industrial and other enclosed space applications. With one heater activated, the increase in temperature of the air leaving the heater will be approximately 14.4 °C above ambient. Each additional heater will increase the temperature by the same amount. Thus, the air exiting the unit could be 43°C higher than the ambient temperature. Please note, however, that this is the increase in the air temperature exiting the heating unit. We are not able to maintain the steel temperature at this value without appropriate insulation.

Our units are heaters, in which we have three sets of heaters, 18 kW each. There are three switches, and each can be turned on and off. Each of the heaters will increase 10 to 15 °C above ambient temperature. The second heater will increase 20 to 30 degrees Celsius above ambient temperature, and with all three heaters, the temperature will increase 30 to 45 degrees above ambient temperature.

Likewise, the relative humidity also decreases 10 to 15% for each heater. You can see the table below as an example of a case study.

The heater has a blower 440/3/60, 380/3/60, 220/1/60, or 220/1/60, or it can also be air-driven. The size of the mouth of the heater is 16 inches, and this blower will force draft 6000 CFM of air into the vessel/tank through the heater. The air will be blown into the vessel/tank as the heater blower needs to have a capacity of 2,3 or 4 times the volume of the tank/vessel for maximum air exchange per hour.

For surface preparation standard, Swedish Standard SA 22 air exchange

For surface preparation standard, Swedish Standard SA 2.5....3 air exchange

■ APPLICATIONS

- Space Heating
- Maintain a comfortable and efficient workspace.
- Increase worker productivity
- Dehumidifying the space
- Paint Curing
- Food grain storage
- Fast paint drying
- Shutdown maintenance jobs

■ TECHNICAL SPECIFICATIONS

Volt.	480v
Power	54kw
Frequency	60hz
Air flow	6000 m³ per hour
Heaters	3*18kw=54kw
Heat transfer	61000 BTU
Amps	70A
Phase	3ph
Inlet	16inch
Outlet	16inch
CFM	3500
Blower motor specification	480v, 60hz, 4A, 3Ph, 4Amps
Rpm	3300
Outlet temperature	150 above
CFM	3500 CFM
Blower - Volt	480V, 3Ph
Blower - Frequency	60 Hz
Blower - Amps	4 amps
Blower - RPM	3500 rpm