

Electric Duct Heaters

Electric duct heaters are stand-alone heating units which are designed for installation within air handling systems. Electric duct heaters work by heating up the passing air.

Applications of Electric Duct Heaters

Electric duct heaters are used for various applications, including the following:

- Heating large volumes of air in commercial buildings
- Heating systems on ships or comfort heating
- Drying ovens
- Heat treating
- HVAC
- Autoclaves
- Re-heating
- Paint drying
- Load banks
- Furnaces

Calculating Power Requirement

The power requirement can be calculated as follows:

1. Multiply the standard cubic feet/min (SCFM) by temperature difference
2. Divide this figure by 3000

The formula described above is as follows:

$$\text{kW} = \frac{(\text{SCFM} \times \text{Change in T})}{3000}$$

For example, if you need to heat up 150 cubic-feet of air in one minute to 100 degree F, you would need an electric duct heater capable of 5kW.

Primary Features

As stated earlier, core feature and specification for each type of duct heater differs with industrial design and manufacturing. Listed below are common characteristics you can easily find in all types of heating devices.

- Stainless steel supporting to withstand highly corrosive and humid atmosphere
- 1.5mmT Galvanized steel for maximum efficiency and output
- Replaceable parts and elements in case of damage or malfunction
- Variation in size, watt densities and materials can be easily obtained over request.
- Stainless steel frames are available on prior requesting

Key Benefits

Using duct heaters in various heating processes and HVAC companies, you can get the following benefits out of each unit.

- Easy to install and maintain without any hassle
- Clean and efficient heat transfer without dispersing
- Eco-friendly
- Flexible and durable for longer life time
- Each unit is made compatible with local power outlet
- Fully maintained wiring coloring
- Maximum heat transfer in less time with minimal waste and heat loss