

Duct Heaters

Duct heaters are one of the best products to be used either in commercial or industrial HVAC Markets. Their product applications normally consist of heavy and light commercial rooftop units, water source heat pumps, air handling units and VAV equipment. Commercial duct heaters are just like strip heating elements, which are designed and examined to satisfy different needs.

How do Duct Heaters Work?

Wattco's duct heaters are particularly helpful for a huge variety of applications, consisting of secondary heating auxiliary heating, primary heating, space heating, reheating and variable air volume heating. These heaters normally have software packages which are needed to specify wiring and coils configuration, element support racks, accessories, sheet metal, controls and options. The software actually enables immediate design modifications as per companies' requirements so there will be a bit difference in their way of working.

Duct heaters come in different dimensions and sizes in order to work according to the industrial demands. They are basically divided into three categories: Finned Tubular heating elements, Open coil heaters or tubular duct heaters, which are either inserted or flanged. Air duct heaters have special benefits for air flowing ventilation systems and provide comfort in heating throughout the industrial process.

Duct electric heaters are designed and configured to make heating procedures easy to manage. The manufacturers conduct extensive research with development strategies according to the latest technologies so as to maximize the utility companies will be going to derive. They strive to satisfy individual needs by producing high quality heaters. It is necessary to always make sure main material used so that duct heaters can easily solve air-heating and non-pressurized issues.

Duct heaters are usually custom built having maximum capacity of 1000kW. Companies prefer to work with the following voltages as per the nature of their applications:

- 347 volts per 1 phase
- 600 volts per 1 phase
- 600 volts per 3 phases OR 208/240 volts per 1 phase
- 208 volts per 3 phase

Almost every manufacturer of duct heaters follows the rules and regulations of American, international standards for electric heating. These heaters are provided with built-in safety tools to prolong the period of services.

Duct Heaters Series

Here are some commonly used series of duct heaters with certain specifications:

Applications of Duct Heaters

Since duct heaters are flexible and versatile, they can be used in a number of fields that include:

- Drying ovens
- Heat treating
- HVAC
- Autoclaves
- Re-heating
- Paint drying
- Load banks
- Furnaces
- And many more