

FINNED TUBULAR HEATER



Finned tubular heaters are superior to tubular heaters since fins greatly increase surface area, permit faster heat transfer to air and permits putting more power in tighter spaces—like forced air ducts, dryers, ovens and load bank resistors resulting in lower element surface temperature. They are made of up of tubular heating elements and are equipped with electro galvanized steel fins. Mechanically bonded continuous fins assure excellent heat transfer and helps prevent fin vibration at high air velocities. As the surface area is increased and heat transfer is improved due to fins, it results in lower sheath temperature and maximizing of element life.

These industrial heating solutions are among the most common heaters and are best suited for a large number of applications such as conduction, convection, and radiation for stoves, industrial ovens, drying cabinets, air conditioners etc. They can be used in virtually every industrial environment up to about 750°C (1382°F) and be molded into many unique and complex shapes. Finned heaters are extremely rugged, have low capital cost and require negligible maintenance.

OPTIONS

| | |
|-----------------------|---|
| Sheath Material | Copper, Steel, 304 Stainless steel, INCOLOY, Titanium |
| Watt Density | Up to 120 W/in ² |
| Fins Material | MS, Stainless Steel |
| Voltage | Up to 480 V AC |
| Operating Temperature | Up to 1200 °F or 650 °C |
| Diameter | 0.375", 0.430", 0.475" or 9.5 mm, 11 mm, 12 mm |

FEATURES

- Variety of custom bends available
- Silicone seals to ensure moisture resistance in humid environments.
- Numerous types of terminations available
- Customized cold sections
- Single ended termination
- Stainless steel mounting bracket, welded to the terminal end.

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OPTIONS

| Material | Applications |
|-----------------|---|
| Copper | Water Oil Grease Solutions non-corrosive to copper |
| Steel | Alkaline cleaning solutions Tars Asphalt Air heating |
| Stainless steel | Corrosive liquids Food processing equipment Radiant heating |
| Incoloy® | Cleaning and degreasing solutions Corrosive liquids |
| Inconel® | Plating and pickling solutions Acid |
| Titanium | Corrosive liquids |

BENEFITS

- Increase in surface area to approximately 16 square inches for every linear inch of element length.
- Precise and easy control of heat Output
- Easy to install and replace
- Provides protection against humid storage conditions
- Configurable to virtually any shape
- Compact size and durable

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