

## BOBBIN/PIPE HEATERS



Bobbin heaters are mainly used for direct heating of air and indirect heating of liquids and gases where the element is fitted into a pocket in the process tank or system so that the element may be replaced without draining down the system or vessel. Highly energy efficient as heat is generated within the solution. Extensively used for transmission of heat, these heaters are available in various specifications that meet the individual necessity in the best possible manner.

Bobbin heaters are made with sheathed and without sheathed material. The sheath material ranges from nickel plated mild steel, copper, nickel plated copper to stainless steel. Resistance wire are supported on refractory insulators and connected to a terminal block at one end. Construction is done with Ceramic link bobbins in either single or 3 phase connections. Temperature sensors can be provided for accurate sensing. The element allows easy installation and handling. They are normally manufactured for horizontal mounting, but may be specially designed and constructed for vertical installation.

Designed for any voltage or wattage within manufacturing limits, bobbin heaters are mainly used for low watt density heating and low temperature range. Known to be one of the most common and versatile heaters in the vast range, they are economical, simple and have low cost installation.

Sheath Material	Copper, Steel, 304 Stainless steel, INCOLOY
Wattage	Up to 6 kW
Diameter	Up to 50 mm
Terminal Enclosure	IP 54 Standard Terminal Box IP 66 Water Proof Terminal Box
Control	Thermocouple, RTD, Thermostat, Digitally controlled
Immersion Length	Customized
Temperature	0 to 250 °C
Voltage	Customized

### Benefits

- High quality
- Long life span
- Good conductor
- Highly efficient
- Versatile and non polluting
- Highly suitable for low watt densities

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