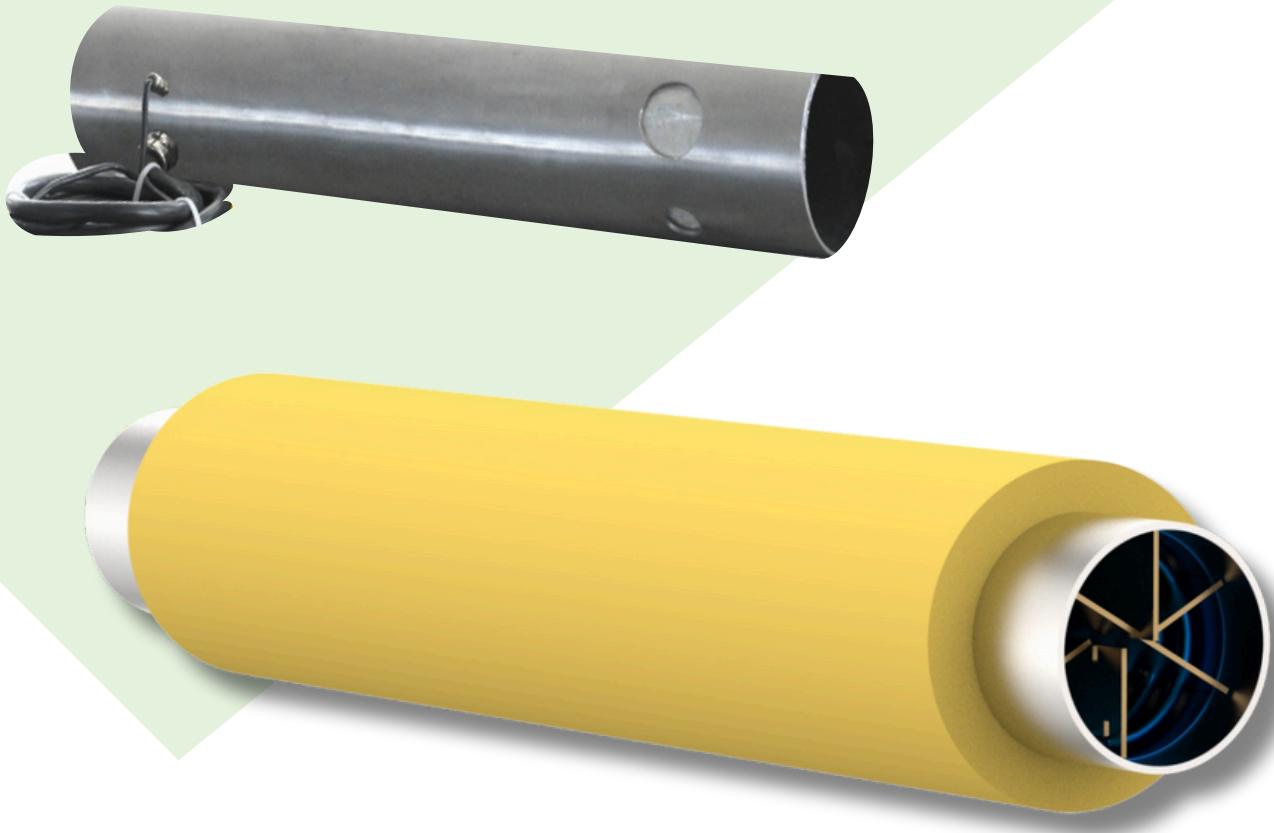




Heating Technologies

UDYAM-
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AIR HEATERS

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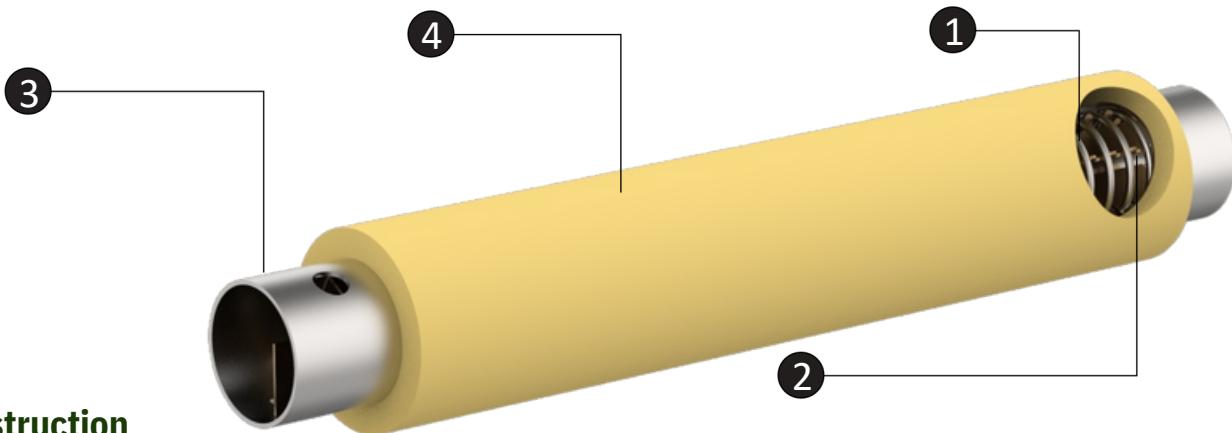
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Heating Technologies

An open coil of high resistance wire that is electrically isolated within a stainless steel sheath is a feature of air heaters manufactured by **Heat & Cool**. The most cost-effective and efficient form of electric heating is one which uses an open coil. It offers a quick heat-up time and increased efficiency since it exposes the maximum heating element surface area directly to the airflow. Its design makes maintenance easier and replacement parts simple and affordable. It is made of premium coils of nickel chromium wire, put in the middle of an SS304 sheath, evenly wound on a mica sheet, and electrically isolated by a layer of flexible mica wrapped inside the sheath. Hot air dryers frequently use these heaters.



Construction

1. **Chromium and nickel Coils**, of resistance wires for optimal heater life that are uniformly coiled for uniform heat distribution.
2. **Mica sheets**, which are dielectric, lightweight, durable, and stable at high temperatures, are used to hold coils in place.
3. **Sheath made of stainless steel**, for strength and resistance to corrosion. **Low heat conductivity and excellent thermal resistance**, are achieved using glass wool insulation.
- 4.
5. **Teflon-coated thermistor and control cables**, provide excellent insulation and are appropriate for high-voltage applications.
6. **Mica insulation** separates the high resistance coil from the sheath thanks to its dielectric properties.

Technical Details

Sheath Material	SS-304/SS-202
Sheath Outer Diameter	63.5 mm, 101.6 mm
Wattage	Various Wattage available ranging from 2 kW to 30 kW
Watt Density	Up to 77 W/inch ²
Glass wool Insulation	Up to 1200°C
Wattage tolerance	+5%, -10%
Resistance tolerance	-5%, +10%

Benefits

- Quick heat-up time. Enhanced effectiveness. Little upkeep.
- Installation is simple. Simple and affordable replacement.

Utilization

Hot Air Dryer

Take note : For bespoke design needs, please get in touch with us.