

Duct Heater/Stab-In Heater Technical Information



Introduction

Duct heaters are used to heat air (or other nonflammable gas) within a duct system to a desired temperature. Typically, these heaters are rod elements connected to a terminal box housed within a section of duct, usually, circular, square or rectangular shaped, that can be fitted into place. Stab-In Heaters are used when a section of duct cannot be fully removed. They are rod elements in a terminal box without the duct section so can be inserted into a hole cut in the ductwork.

Options

We can make the ductwork of the heaters from the following materials: •Galvanised Steel •Stainless Steel 304 •Stainless Steel 316

We can make the heating elements from the following materials: •Incoloy 600, 800, 825 •Mild Steel •Stainless Steel 304, 316, and 321 •Copper •Titanium •Teflon

Features and options for our duct heaters: •ATEX flameproof Duct Heaters •Flanges (undrilled, drilled, mez type) •Pressure Sensors •Temperature Sensors

- •Integral Thyristor Control
- Powder Coating
- •Mesh Wire

•Additional Control Panels •Silencers

- •Staged/Stepped
- •Lifting Lugs
- •Earth Bolts

Technical Specifications

- Temp Classification (e.g. T3 up to 200°C max)
- Temperature control ±1°C
- Ideal air velocity 2.0m/s (minimum 1.5m/s)
- Circular Heater Diameter 100-710mm
- Circular Heater Power 200W-63kW
- >15kW Rectangular Design with circular connections
- Square/Rectangular/Stab-In Length 300-2000mm
- Square/Rectangular/Stab-In Power 500W-2000kW
- Manual and Automatic Reset Cut-out supplied as standard

Applications

Duct heaters have a myriad of uses. But the majority are used in:

- Primary Room Heating (Central or Zone)
- Supplemental Room Heating (Heat Pumps)
- Air Tempering (Outside Air)
- Preheating (Make-Up Air)
- Reheating (Overcooling applications)
- Curing Ovens

Ordering Procedure

Specify the following parameters:

- Cross-section of Duct
- Restrictions on Length
- Airflow
- Supply Voltage
- kW Rating
- Air On/Air Off Temperature
- Integral Controls
- Safe or Hazardous Area
- Application

Ideally please provide a sketch or drawing.

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The information contained herein does not form part of a contract and is subject to change without notice. Hedin Heaters operates a programme of continuous product development and as such, specifications may change. It is the responsibility of the customer to ensure that the component selected from our range is suitable for the intended application. If any further information is required, please contact us. Hedin Heaters Ltd, 33 Warple Mews, Warple Way, London, W3 0RX.