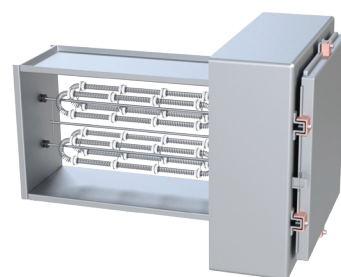
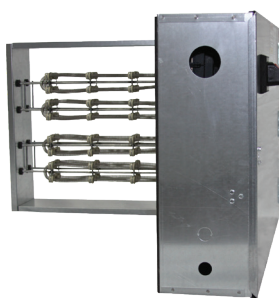
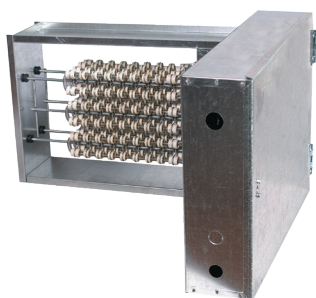


Duct Heaters

ELECTRIC COMFORT VENTILATION

Duct heaters are designed for comfort ventilation applications. They are used in forced air applications to provide stand-alone space heat or to supplement existing heating systems.



IDHB

- Upfront coordination
- Mounting: horizontal or vertical up
- Maximum size: 36 in. x 36 in.
- Capacity: Up to 18 kW per sq. ft.
- Heater controls: Staged (1-3 stages)
- Thermostat: room
- Voltages: 120/1 - 480/3

IDHE

- No upfront coordination
- Universal mounting: six different positions including vertical down
- Maximum size: 120 in. x 144 in.
- Capacity: Up to 30kW per sq. ft.
- Heater controls: Staged, SCR, or Vernier SCR
- Thermostat: room or duct
- Voltages: 120/1 - 480/3

IDHE-O

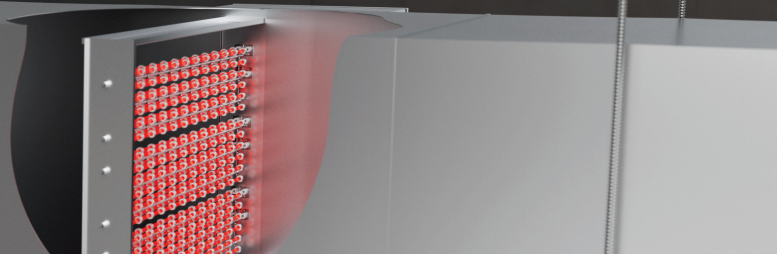
- Same features as IDHE
- UL listed for outdoor applications
- NEMA 4 enclosure

TYPICAL INSTALLATIONS

Space Heating | Primary Heating | Emergency or Backup Heat | Multi-zone or VAV |
Reheat | Secondary or Auxiliary Heating | Replacement | Make-up or Outdoor Air Preheat

Duct Heaters

ELECTRIC COMFORT VENTILATION



Control Panel

- Removable hinged access door with latch
- Detailed wiring diagram
- Multiple mounting positions (IDHE) allow flexibility in the field to position the offset on the left or right as preferred

Available Options:

- Dust-tight box with gasketed door
- Vapor barrier
- Recess for internally insulated ducts

1. Airflow Switch

Fan interlock switch is standard.

Optional airflow switch senses air pressure across the heater surface closing the electrical switch and allowing the heater to activate. This switch is available with fixed or adjustable set point.

2. Disconnect Switch

A door interlocking disconnect switch prevents the control door from being opened until power to the heater is disconnected.

3. Power Fusing

UL and NEC codes require heaters having greater than 48 amps be subdivided into circuits of 48 amps or less. If 48 amps or greater, fusing comes standard. Less than 48 amps, fusing is optional.

4. Terminal Blocks

Terminal blocks are standard on all heaters for quick and easy integration with field-installed control wiring.

5. Contactors - Magnetic

Disconnecting contactors break all ungrounded lines on UL Listed duct heaters and are UL approved for 250,000 cycles.

6. Control Transformer

Control transformers are used to provide single point wiring when the control voltage differs from the line voltage. The transformer is available as fused or unfused.

7. Capacity Controls

Staged Control - One to three stages are provided standard.

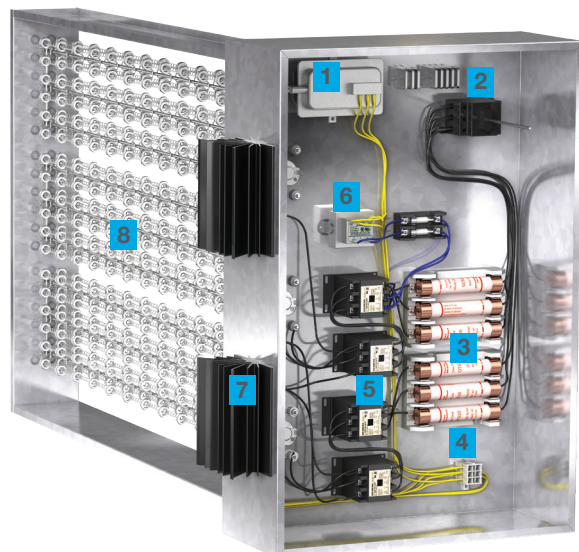
SCR - Solid state relays provide continuous modulation.

Vernier SCR - Vernier SCR control combines the benefits of Step and SCR control to provide precise proportional control on heaters in excess of 135 amps.

8. Elements

Standard heater elements are 60% Ni grade C wire which exhibit excellent performance in standard applications. Optional features:

- 80/20 NiCr grade A element wire: provides superior corrosion resistance in reheat and high humidity applications
- Derated coils: aid in longer element life in single and multi-zone air handler applications



Specify with Confidence. Specify Greenheck.
Connect with your local mechanical representative to learn more.