



245 SOUTH WEST 33rd STREET • FORT LAUDERDALE • FLORIDA 33315  
(954) 523-6478 • FAX (954) 523-6489  
**ALL U.S.A. TOLL FREE 1-800-537-4820**  
Website: [www.dellheatrix.com](http://www.dellheatrix.com)

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O&M Manual  
Installation Instructions  
For Open Coil Duct Heaters

**Models**

- DAS** – Dell Open Coil Alternate Slip In
- DAF** – Dell Open Coil Alternate Flange
- ODAS** – Dell Open Coil Alternate Outdoor Slip In
- DASR** – Dell Open Coil Alternate Slip In/Remote Panel
- DAFR** – Dell Open Coil Alternate Flanged/Remote Panel
- ODASR** – Dell Open Coil Alternate Outdoor/Remote Panel
- X**- Designates Fused Fan Circuit/Single Point Connection

**These duct heaters may be used with any forced air system. They are suitable for zero clearance installations in horizontal or vertical ducts.**

For best performance, the duct heater should be installed, at minimum, 2 feet downstream of the air moving equipment. Be sure to follow air flow direction arrow on cover. If mercury contactors are present, you must mount the heater per arrow marked *'This Side Up'*.

**Installation of Indoor Slip In Model**

Installation of the slip in model consists of cutting an opening in the duct that will accommodate the heat wrapper. Insert the heater and fasten accordingly. On extremely long models, a support foot may be needed at the opposite end of the control panel.



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### **Installation of Outdoor Slip Model**

Follow indoor instructions however installer must use approved outdoor sealant between control panel and duct.

### **Installation of Flange Mount Model**

The Flanged Mount Model will have a flanged heat wrap turned out approximately 1 inch on 3 sides. The heat wrap in this application actually becomes part of the duct system. Measure the airway length of the wrap to determine the portion of the duct to be replaced. The heater will be attached to 3 sides of the duct by the flanges. The portion of the duct where the control box is should be attached through the control panel – a flange is not required here.

### **Remote Panel Models**

Remote panels are used when access or size constraint is a problem. Remote panels house all of the operating components of the electric heater. The terminal enclosure houses all the elements terminals, air pressure switch and all primary and secondary limits. Remote panels should not be attached to the duct work. When a Nema-1 enclosure is used for a remote panel it must be installed outdoors.

### **Single Point Connection for Fan Motor Only**

If your heater was ordered with single point connection for the fan motor, a fused circuit will be marked inside the control panel as a fan supply. **This is for a fan motor circuit only.**



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### **SCR Heaters**

See instructions on SCR systems inside heater control panel.

### **Knock Outs**

It is the responsibility of the electrician to install the knockout for field-supplied conductors. Knockout size must be determined by the table 14.1-14.2, in the National Electric Code. Knockout placement is marked by the manufacturer.

Field wire the supply and control circuit in accordance with local and national codes. All heaters carry a wiring diagram attached to the inside cover. **It is the responsibility of the installer to make sure all electrical connections in the control panel are tight.**

All heaters are intended for use in duct work *only*. Duct work should be constructed in accordance with the National Fire Protection Association – NFPA #90A – NFPA #90B and the SMACNA Ducted Electric Heat Guide.

### **Insulated Ducts**

Heaters must be designed specifically for internally insulated duct work. For turns, grills, transitions etc. in duct work, installer should follow the installation set forth by SMACNA ducted electric heat guide. **Do not insulate or enclose the control panel.**