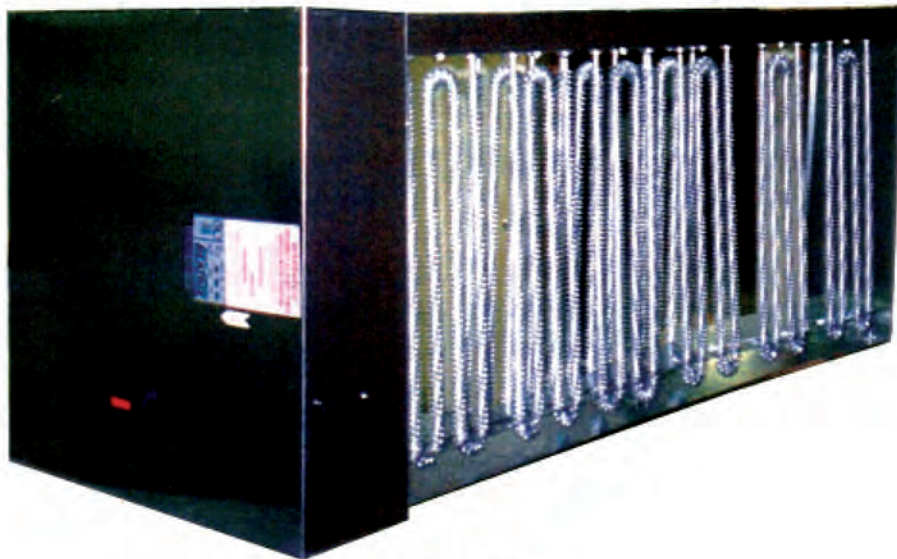




**HEATRIX®**  
ELECTRIC HEATERS

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(954) 523-6478 • FAX (954) 523-6489  
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# FINNED TUBULAR ELECTRIC DUCT HEATERS



## MODELS

DFS - DELL FINNED TUBULAR SLIP IN  
DFF - DELL FINNED TUBULAR FLANGED MOUNT  
ODFS - OUTDOOR DELL FINNED TUBULAR SLIP IN  
DFSR - DELL FINNED TUBULAR SLIP IN W/REMOTE PANEL  
DFFR - DELL FINNED TUBULAR FLANGED W/REMOTE PANEL  
ODFSR - OUTDOOR DELL FINNED TUBULAR SLIP IN W/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.

# **O & M MANUAL**

## **INSTALLATION INSTRUCTIONS FOR FINNED TUBULAR ELECTRIC DUCT HEATERS**

**FOR BEST PERFORMANCE THE DUCT HEATER SHOULD BE INSTALLED 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 CONTROL PANEL.

### **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 INDOORS. ONLY NEMA 4 REMOTES CAN 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 FAN CIRCUIT WILL BE MARKED INSIDE THE CONTROL PANEL AS FAN SUPPLY, **THIS IS FOR A FAN MOTOR CIRCUIT ONLY.**

### **SCR HEATERS**

(SEE INSTRUCTIONS ON SCR SYSTEMS INSIDE HEATER CONTROL PANEL)

### **KNOCK OUTS**

IT IS THE RESPONSIBILITY OF THE ELECTRICIAN TO FIELD INSTALL THE KNOCKOUT FOR FIELD SUPPLIED CONDUCTORS. KNOCK OUT SIZE MUST BE DETERMINED BY THE TABLE 14.1/14.2 IN THE NATIONAL ELECTRIC CODE. KNOCK OUT 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 DUCTWORK.

**TURNS, GRILLS, TRANSITIONS, ECT. IN DUCT WORK  
INSTALLER SHOULD FOLLOW THE INSTALLATION SET FORTH BY  
SMACNA DUCTED ELECTRIC HEAT GUIDE  
DO NOT INSULATE OR ENCLOSE THE CONTROL PANEL**

# STEEL FINNED TUBULAR HEATING ELEMENT

(Multiple Hairpin w/Mounting Fittings)

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**DELLELL CORP.**

245 Southwest Thirty-third Street, Ft. Lauderdale, Florida 33315

**NOTES:**

1. STAMP BUSHING: WATTS, VOLTS, AND DATE CODE.
2. SEAL ELEMENT WITH X-6.
3. COLD AREA, 2 3/4±1/2
4. PAINT WITH HIGH TEMPERATURE ALUMINUM PAINT AND BAKE.
5. A MIN. AIR VELOCITY ON HIGH DENSITY UNITS MUST BE MAINTAINED TO PREVENT TEMPERATURE FROM EXCEEDING 800°F.

