



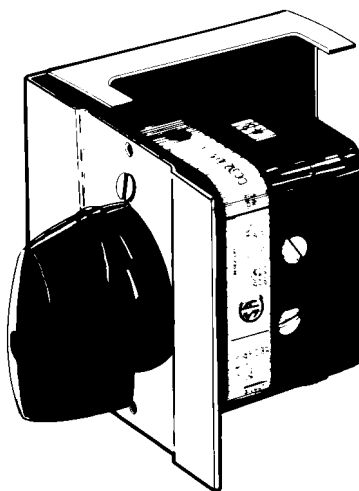
# Installation

# UHEC-IN-43

Library	Service Literature
Product Section	Air Terminal Devices and Heating Products
Product	Unit Heaters
Model	UHEC Accessories
Literature Type	Installation
Sequence	43
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## Power Disconnect Switch

3-Pole, 25-Amp  
120-600 VAC Resistive



**Model DCS 253**  
**Order No. 236-701**  
**(For Use With 3.3KW - 15KW Units)**

9556

Since the Trane Company has a policy of continuous product improvement, it reserves the right to change specifications and design without notice. The installation and servicing of the equipment referred to in this booklet should be done by qualified, experienced technicians.

# Installation Instructions

## Model DCS 253 With Fiber Barrier (Figures 1 and 2)

### Procedure

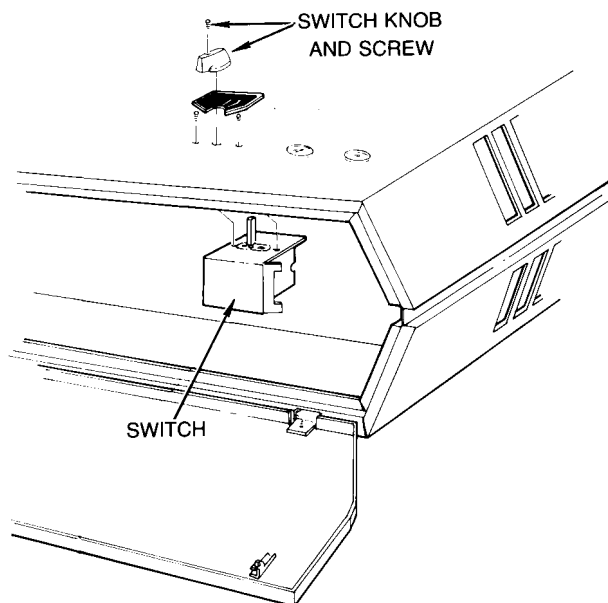
**⚠ WARNING!**  
Open disconnect switches before servicing unit. Failure to do so may result in personal injury or death from electrical shock.

**⚠ Caution:**  
All wiring must be done in accordance with NEC, CEC and all local codes. All conductors from the thermostat to the unit must be copper.

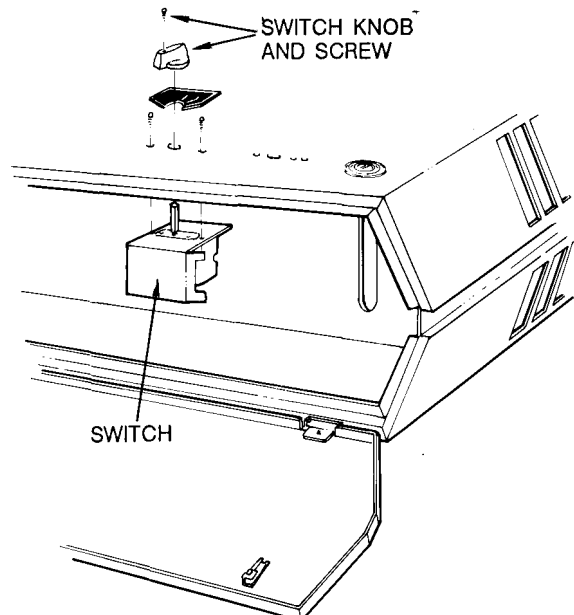
**Note:** Before installing disconnect switch, check heater data tape to ensure that heater electrical rating does not exceed the disconnect switch electrical rating.

1. Disconnect heater from power supply.
2. Remove large knockout and two adjacent small knockouts from back of heater. See Figure 1. The large knockout is located on the heater back center approximately 3-1/2" (89mm) from the bottom of the heater with the two small knockouts on either side.  
  
On the 3.3KW thru 5KW units (Figure 1), the large knockout is 1/2-inch (13mm) in diameter; on the 7.5KW thru 15KW units, a 5/8-inch (16mm) wide slot is provided (see Figure 2).
3. Remove paper backing from "ON-OFF" decal, align with knockout hole and affix it to heater back with lettering toward top of heater.  
  
**Note:** Do not remove fishpaper barrier from switch mounting bracket.
4. Remove switch bracket assembly from switch.
5. Wire switch according to wiring diagram located on inside of heater bottom panel.
  - a. Attach switch leads T1, T2 and T3 to terminals L1, L2 and L3 on heater terminal block.
  - b. Attach incoming supply conductors directly to switch terminals 1, 3 and 5.
6. Reattach switch bracket assembly to switch with switch terminal barrier section covering incoming supply conductors.
7. Attach switch bracket assembly to heater with the two No. 8 screws provided.  
  
**Note:** Switch bracket assembly must be attached to heater with switch terminal barrier section toward bottom of heater. See Figure 1 or 2. Data and caution tapes on switch bracket must be plainly visible after installation.
8. Loosen switch knob screw, push knob on switch, check for proper alignment with "ON-OFF" decal and tighten switch knob screw. When the switch shaft is turned fully counterclockwise, the switch will be in the "OFF" position.
9. Restore power to the unit and check for proper operation.

**Figure 1**  
Switch Location on 3.3KW Thru 5KW Units With Fiber Barrier



**Figure 2**  
Switch Location on 7.5KW Thru 15KW Units With Fiber Barrier



# Installation Instructions

## Model DCS 253 Without Fiber Barrier (Figures 3 and 4)

### Procedure

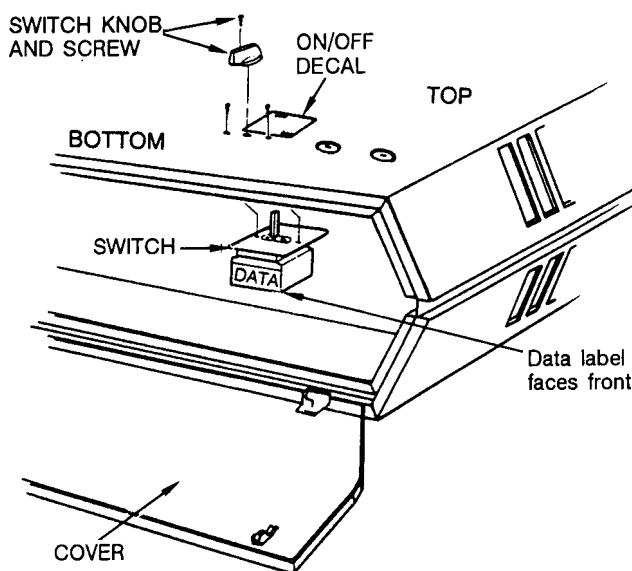
**⚠ WARNING!**  
Open disconnect switches before servicing unit. Failure to do so may result in personal injury or death from electrical shock.

**⚠ Caution:**  
All wiring must be done in accordance with NEC, CEC and all local codes. All conductors from the thermostat to the unit must be copper.

**Note:** Before installing disconnect switch, check heater data tape to ensure that heater electrical rating does not exceed the disconnect switch electrical rating.

1. Disconnect heater from power supply.
2. Remove large knockout and two adjacent small knockouts from back of heater. See Figure 3. The large knockout is located on the

**Figure 3**  
Switch Location on 3.3KW Thru 5KW Units Without Fiber Barrier



heater back center approximately 3-1/2" (89mm) from the bottom of the heater with the two small knockouts on either side.

On the 3.3KW thru 5KW units (Figure 4), the large knockout is 1/2-inch (13mm) in diameter; on the 7.5KW thru 15KW units, a 5/8-inch (16mm) wide slot is provided (see Figure 4).

3. Remove the knob from the switch by loosening the screw in the center of the knob and pulling it off.
4. Connect the incoming power supply leads to terminals L1-L2-L3 of the disconnect switch. Connect the incoming ground lead to the grounding screw (or lug).
5. Mount the switch inside the heater control compartment, with the shaft extending through the knockout, using the two No. 8 x 5/16-inch (8mm) Phillips-head screws provided. The switch should be oriented so the side with the the data label is facing the open side of the compartment (visible when installed).

6. Connect the leadwires on the switch (marked T1-T2-T2) to the heater power terminal block (marked L1-L2-L3).
7. Install the knob and tighten the knob mounting screw.
8. Attach the "ON-OFF" decal as shown in Figures 3 and 4. Peel off the backing paper, position carefully, then press firmly onto the heater cabinet. Note that knob rotation clockwise is "ON" and counterclockwise is "OFF".
9. Check all connections for tightness and electrical clearances. Close cover and latch, then restore electrical power and check heater in each mode of operation.

**Figure 4**  
Switch Location on 7.5KW Thru 15KW Units Without Fiber Barrier

