



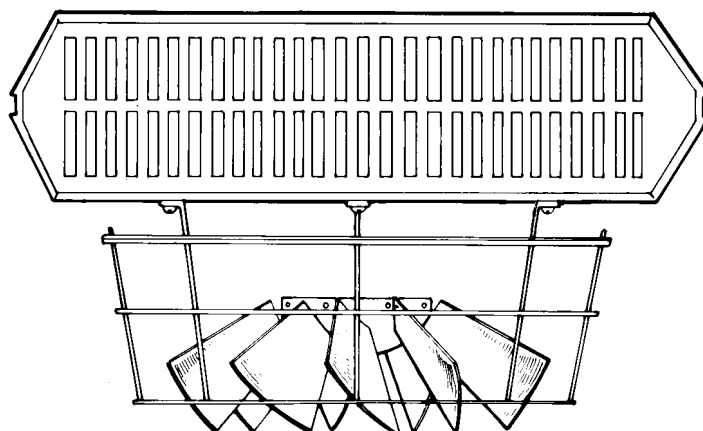
Installation

UHEC-IN-45

Library	Service Literature
Product Section	Air Terminal Devices and Heating Products
Product	Unit Heaters
Model	UHEC Accessories
Literature Type	Installation
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Louver Cone Diffuser

(For Vertical Discharge Units Only)



Model RD 5120
Order No. 236-920
(For Use With 7.5KW - 20 KW Units)

Model RD 5150
Order No. 236-922
(For Use With 25KW - 50 KW Units)

9483

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.

Heater Mounting Location

Heater Mounting Height & Effective Heating Area

The maximum recommended distance from the bottom of the suspended heater to the floor (maximum mounting height) and the diameter of the area that is effectively heated

(diameter heating area) are altered when the louver cone diffuser is used. Refer to Figure 1 and Table 1 to determine the proper mounting height and effective heating area for each unit with and without the louver cone diffuser.

Figure 1
Effective Heating Area and Maximum Mounting Heights

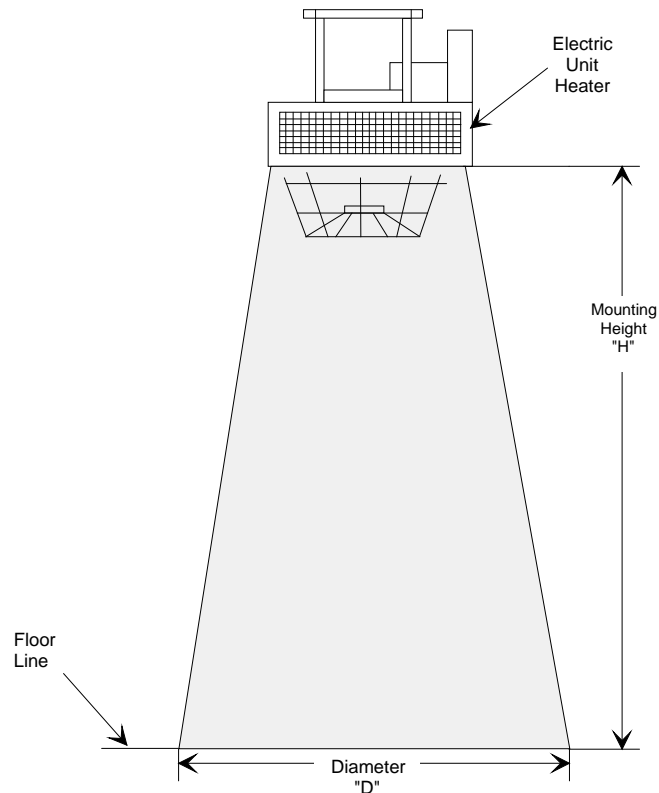


Table 1
Max. Mounting Heights and Effective Heating Area for Std. Heater and Heater w/Louver Cone Diffuser

Unit Heater KW	Standard Heater (No Diffuser)		Heater w/Diffuser Fins Fully Open (Vertical)		Heater w/Diffuser Fins 1/2 Open (45 Degrees)	
	Dim. H	Dim. D	Dim. H	Dim. D	Dim. H	Dim. D
10KW	12 (3.7)	40 (12.2)	14 (4.3)	30 (9.1)	10 (3.1)	36 (11)
15KW	18 (5.5)	52 (15.9)	21 (6.4)	35 (10.7)	14 (4.3)	42 (12.8)
20KW	15 (5.5)	52 (15.9)	21 (6.4)	35 (10.7)	14 (4.3)	42 (12.8)
25KW	22 (6.7)	75 (22.9)	30 (9.1)	44 (13.4)	20 (6.1)	62 (18.9)
30KW	22 (6.7)	75 (22.9)	30 (9.1)	44 (13.4)	20 (6.1)	62 (18.9)
40KW	24 (7.3)	84 (25.6)	28 (8.5)	54 (16.5)	18 (5.5)	68 (20.7)
50KW	24 (7.3)	84 (25.6)	28 (8.5)	54 (16.5)	18 (5.5)	68 (20.7)

Notes:

1. Dim. H = Maximum Mounting Height; Dim. D = Effective Heating Diameter
2. Dimensions given in feet.
3. Dimensions shown in () are in meters.

Installation Instructions

Procedure

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

Note: Nylon push nuts are moisture-treated. Keep them in the sealed plastic bag when not in use. Do not store in areas where humidity is low, in direct warm-air drafts or in temperatures below 32F (0C). Immerse nuts in water for at least 1/2-hour (1800 s) before installing.

1. Disconnect heater from power supply.
2. Remove lower frame assembly from front of heater and discard. Louver frame assembly is attached to the heater front with four sheet-metal screws.
3. Insert the four nylon push nuts provided into the square holes located around the venturi opening on the heater front. A slight tap with a flat surface may be required to fully seat the push nuts in the square holes.
4. Assemble the internal-tooth star washers and flat washers provided onto each of the mounting screws (Figure 1).
5. Line up the diffuser mounting holes with the nylon push nuts mounted in the heater front. Insert the mounting screws through the diffuser mounting eyes and tighten the screws.
6. Adjust the diffuser vanes for desired air deflection.
7. Restore power to the heater. Unit is ready to operate.

Figure 2
Mounting Louver Cone
Diffuser

