INSTALLATION O & M MANUAL

HEATRIX RDH Series Electric Duct Heaters - Round Ducts

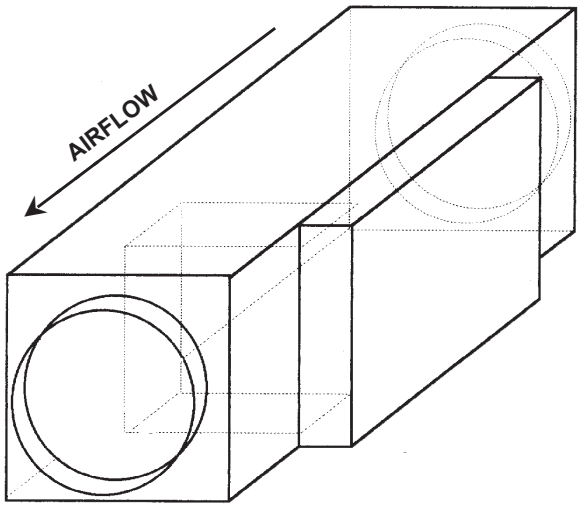
These duct heaters utilize the U.L. Listed “M1” or MH1” slip-in style heater, factory installed in an insulated round duct plenum, with a 2 inch round collar on the air entering and air leaving sides of the plenum. The “M1” style has an integral control panel - the “MH1” style has a remote control panel.

These heaters are U.L. Listed for zero clearance, suitable for installation in horizontal or vertical ducts, with any forced air system.

1. Install this heater a minimum of 4 feet from heat pumps or air conditioners.
2. Install this heater a minimum of 2 feet from air handler or forced air system.
3. Install this heater a minimum of 2 feet on either side of an elbow or turn.
4. All other installation requirements are to be found in the National Electrical Code Handbook in accordance with NFPA 90A & 90B and the SMACNA ducted electric heat guide for air handling systems.

RDH series heaters come with electrical & velocity requirements on the hinged cover of the heater, as well as a wire diagram. Air flow and position arrows must be followed exactly!

INSTALLER MUST TIGHTEN ALL ELECTRICAL CONNECTIONS IN CONTROL PANEL.



2” COLLAR ON INLET AND DISCHARGE ENDS

WIRE SIZE FOR FIELD WIRING FOR MINIMUM 75ºC AWG COPPER

TOTAL AMPS	AWG#
0-16	12
16.1-24	10
24.1-36	8
36.1-52	6
52.1-68	4
68.1-80	3
80.1-92	2
92.1-104	1
104.1-120	O
120.1-140	OO
140.1-160	OOO
160.1-184	OOOO
184.1-204	250MCM
204.1-228	300MCM
228.1-248	350MCM
248.1-268	400MCM
268.1-304	500MCM

MINIMUM AIR VELOCITY - FPM

KW PER SQ. FT.	FPM 77ºF	FPM 100ºF	KW PER SQ. FT.	FPM 77ºF	FPM 100ºF	KW PER SQ. FT.	FPM 77ºF	FPM 100ºF
1	150	250	7.5	675	1050	13..5	975	1400
2	250	400	8	725	1075	14	1000	1425
2.5	300	500	8.5	750	1125	14.5	1015	1445
3	350	550	9	775	1150	15	1025	1450
3.5	375	625	9.5	800	1200	15.5	1040	1460
4	440	675	10	825	1225	16	1050	1475
4.5	475	725	10.5	850	1250	16.5	1060	1500
5	525	800	11	875	1275	17	1075	1525
5.5	550	850	11.5	900	1300	17.5	1090	1550
6	575	900	12	925	1325	18	1100	1560
6.5	625	950	12.5	935	1345	18.5	1125	1575
7	650	1000	13	950	1375	19	1135	1600

Converting FPM to CFM (square inch [of duct work) x FPM]/144 = CFM