Publication No. RU-HRX-1012A

Russell

HR

HEAT RECLAIM

Space Heaters for: Storage rooms, Receiving areas, Loading Docks, Miscellaneous Supplemental Heating.

In an air conditioning or refrigeration system the heat taken from the conditioned space or product is usually wasted to the atmosphere by a water or air cooled condenser. The Russell Reclaim Heater may be used to recapture this wasted heat, (100% recovery on parallel piping arrangement to about 70% for series connection.)

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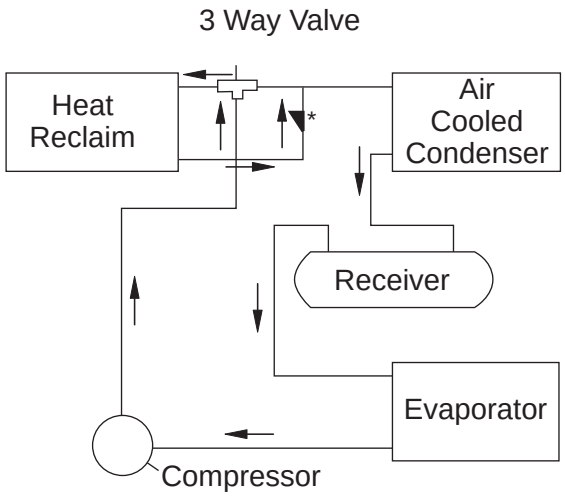
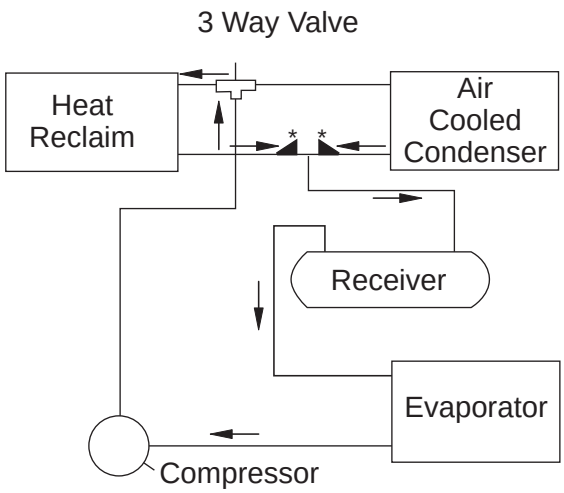
HEAT RECLAIM

PIPING DIAGRAM

SERIES ARRANGEMENT



PARALLEL ARRANGEMENT



* Check Valve

NOTE: Arrows show refrigerant path in reclaim mode.

MODEL NUMBER NOMENCLATURE

HAC S 001 B - 08 V E

MODEL SERIES

FAN MOTOR SPEED:
S = 1140 RPM

NOMINAL CAPACITY
Tons @ 30° TD, R-22

COIL TUBE SIZE
B = 3/8" Tubing

COIL FIN SPACING
08, 10, FPI

AIR DISCHARGE
H - Horizontal Discharge
V - Vertical Discharge

ELECTRICAL CODE
D - 208-230/1/60
E - 208-230/3/60
F - 460/1/60
G - 460/3/60
H = 575/1

SPECIFICATIONS — RUSSELL HEAT RECLAIM UNIT HEATERS

Model Number	R-404A Capacity †	R-22 Capacity †	TOTAL CFM	Fans		Motors		Total Motor Amps		
				Num.	Dia.	H.P.	RPM	230/1 Volts	230/3 Volts	460 Volts
HACS001B-08	32,000	29,000	3100	1	18"	1/2	1140	2.5	2.0	1.0
HACS002B-08	57,000	53,000	2750	1	18"	1/2	1140	2.5	2.0	1.0
HACS003B-08	83,000	83,000	3850	1	22"	1/2	1140	2.5	2.0	1.0
HACS005B-10	127,000	115,000	3700	1	22"	1/2	1140	2.5	2.0	1.0
HACS008B-10	178,000	176,000	7700	2	22"	1/2	1140	5.0	4.0	2.0
HACS010B-10	*254,000*	230,000	7400	2	22"	1/2	1140	5.0	4.0	2.0
HACS012B-10	310,000	270,000	7000	2	22"	1/2	1140	5.0	4.0	2.0

NOTE: Capacities shown in Gray have Opposite End Connections. Special conditions on certain models may make it necessary to use OEC's.
Capacities shown are for 50°F TD(condensing temperature minus entering air temperature).
† - Heating Capacity

Correction factors below are for capacities at other TD's.

TD	30	35	40	45	50	55	60
Factor	0.6	0.7	0.8	0.9	1.0	1.1	1.2

EXAMPLE: 65° Entering Air, Compressor Total Heat Rejection at 110° Condensing Temperature 44,000 BTU/HR

110 - 65 = 45 use correction factor 0.9, $\frac{44,000}{0.9}$ = 48,889 use HACS002

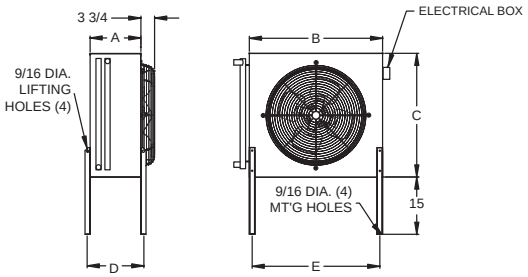
DIMENSIONS

Model HACS	Drawing	A	B	C	D	E	F	Weight (lbs.)	
								Net	Shipping
001	1	12 9/16	28	25 5/8	26 1/2	15	40	78	97
002	1	12 9/16	28	25 5/8	26 1/2	16 1/2	40	86	105
003	1	14 1/2	33	30 5/8	31 1/2	16 1/2	45	107	128
005	1	14 1/2	33	30 5/8	31 1/2	17 1/2	45	116	137
008	2	14 1/2	—	—	—	—	—	164	190
010	2	14 1/2	—	—	—	—	—	179	205
012	2	15 3/4	—	—	—	—	—	195	221

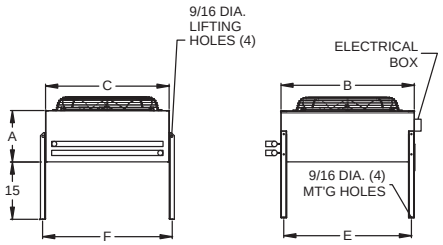
HEAT RECLAIM

Drawing - 1

Horizontal Discharge

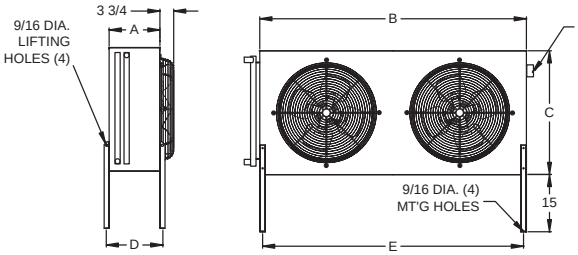


Vertical Discharge

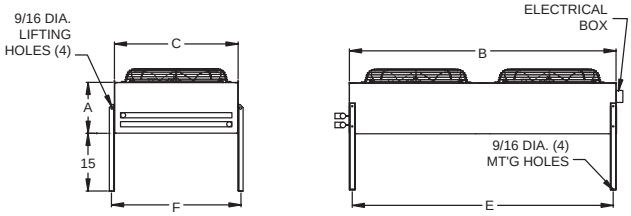


Drawing - 2

Horizontal Discharge



Vertical Discharge



Due to continuing product development, specifications are subject to change without notice.