

MIAMI HEAT PUMP

Saving the environment for future generations

WATER COOLED CHILLERS & LOW TEMP BOILERS SPECIFICATION DATA SHEET

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HPHWW060

WATER COOLED REVERSE CYCLE CHILLERS
R454B REFRIGERANT

CHILLER PERFORMANCE

Based on 10.5 GPM load and 13.2 GPM source fluid flow.

Leaving Load Fluid (°F)	Entering Source Fluid (°F)	Total Capacity (Tons)	Total Capacity (MBtuH)	Power Input (kW)	EER	Heat Rejection (MBtuH)
40°	75°	4.3	51.92	3.51	14.92	63.91
	80°	4.2	50.85	3.73	13.77	63.58
	85°	4.1	49.72	3.96	12.70	63.22
	90°	4.0	48.55	4.23	11.71	62.85
	95°	3.9	47.32	4.48	10.76	62.47
42°	75°	4.4	53.73	3.55	15.42	65.73
	80°	4.3	52.62	3.78	14.24	65.35
	85°	4.2	51.45	4.00	13.13	64.95
	90°	4.1	50.23	4.19	12.10	64.54
	95°	4.0	48.95	4.44	11.13	64.11
44°	75°	4.5	54.65	3.51	15.69	66.65
	80°	4.4	53.52	3.74	14.47	66.26
	85°	4.3	52.33	3.96	13.35	65.83
	90°	4.2	51.09	4.19	12.30	65.40
	95°	4.1	49.79	4.44	11.31	64.95
45°	75°	4.7	55.58	3.51	15.95	67.59
	80°	4.7	54.43	3.74	14.72	67.18
	85°	4.4	53.22	3.96	13.57	66.73
	90°	4.3	51.95	4.19	12.58	66.27
	95°	4.2	50.63	4.44	11.49	65.81
46°	75°	4.9	57.49	3.52	16.48	69.50
	80°	4.7	56.29	3.74	15.21	69.03
	85°	4.6	55.03	3.96	14.03	68.55
	90°	4.4	53.72	4.20	12.92	68.04
	95°	4.3	52.35	4.45	11.88	67.54
48°	75°	4.9	58.46	3.52	16.76	70.48
	80°	4.8	57.24	3.74	15.46	69.98
	85°	4.7	55.95	3.96	14.26	69.48
	90°	4.6	54.62	4.20	13.13	68.95
	95°	4.4	53.23	4.45	12.07	68.42
50°	75°	5.1	60.44	3.52	17.31	72.47
	80°	5.0	59.17	3.74	15.98	71.93
	85°	4.9	57.83	3.97	14.73	71.37
	90°	4.8	56.45	4.20	13.56	70.80
	95°	4.6	55.01	4.45	12.46	70.22

As a result of continuing research & development, specifications are subject to change without notice.

UNIT WEIGHT (lbs)		DIMENSION (inches)		
Unit Weight	Shipping Weight	Length	Width	Height
275	295	26	24	27

Units are complete packages featuring 1 stage operation and containing refrigeration compressor, reversing valve, expansion valve, metering device and water to refrigerant heat exchangers.

Also included are safety controls: overload protection for compressor, high and low pressure switches and lock-out control circuit.

ELECTRICAL SPECIFICATIONS

Electrical Characteristics	Elect. Symbol	Compressor		Min Circuit Ampacity	Max Fuse Size
		RLA	LRA		
208/230/1/60	A	26.4	134.0	33.0	50
208/230/3/60	C	16.0	110.0	20.0	35
460/3/60	D	7.8	52.0	9.8	15
575/3/60	E	5.7	38.9	7.1	15

FLUID FLOW & PRESSURE DROP

Chilled Fluid Side (@ 55°F)		Cond. Fluid Side (@ 85°F)	
Flow (GPM)	ΔP (FOH)	Flow (GPM)	ΔP (FOH)
8	4.0	8	3.5
10	6.0	10	5.2
12	8.3	12	7.2
14	11.0	14	9.6
16	14.0	16	12.2

HEATING PERFORMANCE

Based on 10.5 GPM load and 13.2 GPM source fluid flow.

Leaving Load Fluid (°F)	Entering Source Fluid (°F)	Heating Capacity (MBtuH)	Power Input (kW)	COP	Heat Absorb. (MBtuH)
100°	35°	53.07	4.22	3.72	38.65
	40°	56.37	4.20	3.97	42.03
	50°	63.46	4.15	4.52	49.28
	60°	71.32	4.10	5.14	57.32
	70°	80.06	4.05	5.85	66.24
110°	35°	52.97	4.75	3.30	36.79
	40°	56.16	4.72	3.52	40.05
	50°	62.97	4.68	3.99	47.03
	60°	70.52	4.63	4.51	54.75
	70°	78.91	4.57	5.11	63.33
120°	35°	52.93	5.33	2.94	34.72
	40°	55.99	5.31	3.12	37.85
	50°	62.53	5.26	3.51	44.56
	60°	69.74	5.21	3.96	51.95
	70°	77.75	5.15	4.46	60.16
125°	35°	53.01	6.02	2.61	32.46
	40°	55.93	6.00	2.76	35.46
	50°	62.17	5.95	3.09	41.86
	60°	69.03	5.90	3.46	48.92
	70°	76.65	5.84	3.89	56.74

Please contact factory for up-to-date values. For more info visit www.dualairhp.com

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