MIAMI HEAT PUMP

Saving the environment for future generations

WATER COOLED CHILLERS & LOW TEMP BOILERS

SPECIFICATION DATA SHEET

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HPHWW024

WATER COOLED REVERSE CYCLE CHILLERS

R454B REFRIGERANT

CHILLER PERFORMANCE

Based on 5 GPM load and 6.2 GPM source fluid flow.

Leaving Load Fluid (^{0}F)	Entering Source Fluid (^{0}F)	Total Capacity (Tons)	Total Capacity (MBtuH)	Power Input (kW)	EER	Heat Rejection (MBtuH)
40^0	75^0	2.02	24.23	1.63	15.05	29.48
	80^0	1.97	23.65	1.73	13.67	29.27
	85^0	1.92	23.05	1.84	12.65	29.04
	90^0	1.87	22.41	1.96	11.56	28.80
	95^0	1.81	21.74	2.08	10.55	28.55
42^0	75^0	2.09	25.07	1.63	15.56	30.31
	80^0	2.04	24.47	1.73	14.27	30.08
	85^0	1.99	23.85	1.84	13.07	29.83
	90^0	1.93	23.13	1.98	11.96	29.57
	95^0	1.82	22.49	2.10	10.91	29.31
44^0	75^0	2.12	25.49	1.65	15.82	30.74
	80^0	2.07	24.89	1.76	14.51	30.50
	85^0	2.02	24.25	1.86	13.29	30.24
	90^0	1.97	23.58	1.96	12.16	29.97
	95^0	1.91	22.89	2.08	11.09	29.70
45^0	75^0	2.16	25.92	1.63	16.08	31.17
	80^0	2.11	25.31	1.74	14.75	30.92
	85^0	2.06	24.66	1.85	13.51	30.65
	90^0	2.00	23.99	1.96	12.36	30.37
	95^0	1.94	23.27	2.08	11.28	30.09
46^0	75^0	2.23	26.81	1.63	16.60	32.04
	80^0	2.18	26.17	1.74	15.24	31.77
	85^0	2.12	25.50	1.85	13.97	31.49
	90^0	2.07	24.81	1.96	12.78	31.19
	95^0	2.01	24.07	2.09	11.66	30.88
48^0	75^0	2.27	27.25	1.63	16.88	32.49
	80^0	2.22	26.61	1.74	15.48	32.21
	85^0	2.16	25.94	1.85	14.19	31.91
	90^0	2.10	25.22	1.96	12.98	31.60
	95^0	2.04	24.48	2.09	11.85	31.29
50^0	75^0	2.34	28.16	1.64	17.42	33.40
	80^0	2.29	27.50	1.74	15.99	33.10
	85^0	2.23	26.81	1.85	14.66	32.78
	90^0	2.17	26.08	1.96	13.41	32.45
	95^0	2.11	25.31	2.09	12.24	32.12

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

UNIT WEIGHT (lbs)		DIMENSION		
Unit Weight	Shipping Weight	Length	Width	Height
245	265	26	24	27

ELECTRICAL SPECIFICATIONS

Electrical Characteristics	Elect. Symbol	Compressor		Min Circuit Ampacity	Max Fuse Size
		RLA	LRA		
208/230/1/60	A	12.8	60.0	16.0	25
265/1/60	B	10.9	58.0	13.6	20
208/230/3/60	C	7.7	40.0	9.6	15

FLUID FLOW & PRESSURE DROP

Chilled Fluid Side (@ 55^{0}F)		Cond. Fluid Side (@ 85^{0}F)	
Flow (GPM)	ΔP (FOH)	Flow (GPM)	ΔP (FOH)
3	1.33	3	1.16
4	2.25	4	1.96
5	3.38	5	2.95
6	4.70	6	4.10
8	7.92	8	6.92

HEATING PERFORMANCE

Based on 5 GPM load and 6.2 GPM source fluid flow.

Leaving Load Fluid (^{0}F)	Entering Source Fluid (^{0}F)	Heating Capacity (MBtuH)	Power Input (kW)	COP	Heat Absorb. (MBtuH)
100^0	35^0	24.63	1.98	3.69	17.90
	40^0	26.15	1.97	3.93	19.43
	50^0	29.44	1.95	4.48	22.81
	60^0	33.12	1.92	5.10	26.56
	70^0	37.22	1.90	5.81	30.74
110^0	35^0	24.49	2.23	3.25	16.88
	40^0	25.94	2.22	3.45	18.35
	50^0	29.09	2.20	3.91	21.57
	60^0	32.62	2.18	4.43	25.19
	70^0	36.56	2.15	5.03	29.22
120^0	35^0	24.39	2.52	2.86	15.78
	40^0	25.77	2.51	3.03	17.17
	50^0	28.76	2.50	3.40	20.23
	60^0	32.13	2.47	3.84	23.67
	70^0	35.89	2.44	4.34	27.53
125^0	35^0	24.38	2.86	2.53	14.61
	40^0	25.67	2.86	2.66	15.91
	50^0	28.49	2.85	2.96	18.78
	60^0	31.68	2.83	3.32	22.04
	70^0	35.25	2.80	3.74	25.71

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

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.