

# MIAMI HEAT PUMP

Saving the environment for future generations

## WATER COOLED CHILLERS & LOW TEMP BOILERS SPECIFICATION DATA SHEET

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## HPHWW036

WATER COOLED REVERSE CYCLE CHILLERS  
R410A REFRIGERANT

### CHILLER PERFORMANCE

Based on 5.3 GPM load and 6.5 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°	2.16	25.97	1.67	15.71	31.66
	80°	2.11	25.31	1.78	14.39	31.37
	85°	2.05	24.63	1.91	13.18	31.08
	90°	1.99	23.94	2.01	12.04	30.78
	95°	1.93	23.20	2.14	10.97	30.49
42°	75°	2.25	26.87	1.67	16.25	32.57
	80°	2.18	26.20	1.78	14.89	32.26
	85°	2.12	25.49	1.89	13.64	31.95
	90°	2.06	24.78	2.01	12.45	31.62
	95°	2.00	24.02	2.14	11.35	31.31
44°	75°	2.28	27.33	1.67	16.52	33.03
	80°	2.22	26.64	1.78	15.14	32.71
	85°	2.16	25.94	1.89	13.87	32.38
	90°	2.10	25.20	2.01	12.67	32.06
	95°	2.04	24.43	2.14	11.54	31.72
45°	75°	2.31	27.80	1.67	16.80	33.50
	80°	2.26	27.10	1.78	15.40	33.17
	85°	2.20	26.38	1.89	14.10	32.84
	90°	2.13	25.63	2.01	12.88	32.49
	95°	2.07	24.86	2.14	11.74	32.15
46°	75°	2.39	28.75	1.68	17.37	34.46
	80°	2.33	28.04	1.78	15.92	34.11
	85°	2.27	27.29	1.89	14.57	33.74
	90°	2.21	26.51	2.01	13.31	33.38
	95°	2.14	25.71	2.14	12.13	33.02
48°	75°	2.43	29.24	1.68	17.65	34.95
	80°	2.37	28.51	1.78	16.18	34.58
	85°	2.31	27.75	1.89	14.82	34.21
	90°	2.24	26.97	2.01	13.53	33.84
	95°	2.18	26.15	2.14	12.33	33.45
50°	75°	2.51	30.23	1.68	18.25	35.95
	80°	2.45	29.48	1.78	16.72	35.55
	85°	2.39	28.69	1.89	15.30	35.16
	90°	2.32	27.89	2.01	13.99	34.75
	95°	2.25	27.05	2.14	12.75	34.35

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
255	275	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	16.7	79.0	20.9	35
208/230/3/60	C	10.4	73.0	13.0	20
460/3/60	D	5.7	38.0	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)
4	2.2	4	2.0
5	3.4	5	2.9
6	4.7	6	4.1
8	7.9	8	6.9
10	11.8	10	10.4

### HEATING PERFORMANCE

Based on 5.3 GPM load and 6.5 GPM source fluid flow.

Leaving Load Fluid (°F)	Entering Source Fluid (°F)	Heating Capacity (MBtuH)	Power Input (kW)	COP	Heat Absorb. (MBtuH)
100°	35°	25.99	2.02	3.75	18.87
	40°	27.60	2.02	4.01	20.50
	50°	31.13	1.99	4.57	24.08
	60°	38.12	1.97	5.23	28.09
	70°	39.50	1.94	5.96	32.55
110°	35°	25.79	2.30	3.28	17.74
	40°	27.33	2.29	3.49	19.31
	50°	30.70	2.26	3.97	22.75
	60°	34.49	2.23	4.53	26.60
	70°	38.72	2.20	5.15	30.89
120°	35°	25.63	2.63	2.85	16.48
	40°	27.09	2.61	3.04	17.99
	50°	30.29	2.57	3.44	21.28
	60°	33.89	2.54	3.91	24.96
	70°	37.93	2.50	4.43	29.08
125°	35°	25.53	3.01	2.48	15.09
	40°	26.91	2.99	2.63	16.52
	50°	29.92	2.94	2.97	19.65
	60°	33.32	2.90	3.36	23.17
	70°	37.14	2.86	3.80	27.09

Please contact factory for up-to-date values. For more info visit [www.miamihp.com](http://www.miamihp.com)