

# MIAMI HEAT PUMP

Saving the environment for future generations

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

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## HPHWW240

WATER COOLED REVERSE CYCLE CHILLERS  
R410A REFRIGERANT

### CHILLER PERFORMANCE

Based on 45.8 GPM load and 57 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°	18.93	227.18	14.26	15.94	275.83
	80°	18.39	220.73	14.99	14.73	271.88
	85°	17.83	213.92	15.83	13.52	267.92
	90°	17.23	206.78	16.76	12.33	263.98
	95°	16.61	199.34	17.80	11.20	260.09
42°	75°	19.58	234.96	14.32	16.41	283.82
	80°	19.04	228.47	15.05	15.18	279.83
	85°	18.47	221.58	15.89	13.95	275.78
	90°	17.86	214.34	16.82	12.74	271.72
	95°	17.23	206.77	17.86	11.58	267.69
44°	75°	19.91	238.91	14.35	16.65	287.88
	80°	19.37	232.40	15.08	15.41	283.87
	85°	18.79	225.48	15.92	14.17	279.78
	90°	18.18	218.18	16.85	12.95	275.67
	95°	17.55	210.54	17.88	11.77	271.56
45°	75°	20.24	242.91	14.38	16.89	291.99
	80°	19.70	236.37	15.12	15.64	287.95
	85°	19.12	229.41	15.95	14.39	283.82
	90°	18.51	222.06	16.88	13.16	279.65
	95°	17.86	214.36	17.91	11.97	275.47
46°	75°	20.92	251.02	14.45	17.37	300.32
	80°	20.37	244.45	15.18	16.10	296.24
	85°	19.78	237.41	16.01	14.83	292.04
	90°	19.16	229.96	16.94	13.58	287.75
	95°	18.51	222.12	17.96	12.36	283.42
48°	75°	21.26	255.14	14.48	17.62	304.55
	80°	20.71	248.55	15.21	16.34	300.45
	85°	20.12	241.48	16.04	15.05	296.21
	90°	19.50	233.97	16.97	13.79	291.87
	95°	18.84	226.07	17.99	12.56	287.46
50°	75°	21.96	263.52	14.54	18.12	313.14
	80°	21.41	256.88	15.28	16.82	309.00
	85°	20.81	249.74	16.10	15.51	304.69
	90°	20.18	242.13	17.03	14.22	300.24
	95°	19.51	234.09	18.05	12.97	295.69

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
970	990	48.5	27.75	31.25

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		
208/230/3/60	C	37.0	239.0	83.3	120
460/3/60	D	20.0	125.0	45.0	60
575/3/60	E	14.3	80.0	32.2	45

### FLUID FLOW & PRESSURE DROP

Chilled Fluid Side (@ 55°F)		Cond. Fluid Side (@ 85°F)	
Flow (GPM)	ΔP (FOH)	Flow (GPM)	ΔP (FOH)
36	54	36	4.7
44	7.7	44	6.7
52	10.5	52	9.1
60	13.6	60	11.9
68	17.0	68	14.9

### HEATING PERFORMANCE

Based on 11 GPM load and 13.7 GPM source fluid flow.

Leaving Load Fluid (°F)	Entering Source Fluid (°F)	Heating Capacity (MBtuH)	Power Input (kW)	COP	Heat Absorb. (MBtuH)
100°	35°	219.05	16.75	3.83	161.89
	40°	234.27	16.72	4.11	177.22
	50°	267.16	16.68	4.69	210.25
	60°	303.25	16.67	5.33	246.38
110°	35°	215.15	19.14	3.29	149.83
	40°	229.61	19.05	3.53	164.60
	50°	261.16	18.91	4.05	196.64
	60°	296.18	18.82	4.61	231.99
120°	35°	212.54	21.98	2.83	137.56
	40°	225.95	21.82	3.04	151.51
	50°	255.59	21.56	3.47	182.02
	60°	288.96	21.37	3.96	216.03
125°	35°	211.40	25.24	2.45	125.27
	40°	223.47	25.02	2.62	138.12
	50°	250.62	24.63	2.98	166.57
	60°	281.77	24.35	3.39	198.70
70°	316.85	24.13	3.85	234.51	

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