

# MIAMI HEAT PUMP

Saving the environment for future generations

## WATER SOURCE & GEOTHERMAL HEAT PUMPS SPECIFICATION DATA SHEET

Email: info@miamihp.com | Toll: (866) 407-8535 | Fax: (866) 406-6603

## HPW150

WATER SOURCE & GEOTHERMAL HEAT PUMPS  
R410A REFRIGERANT

WATER LOOP				GROUND WATER			
Cooling		Heating		Cooling		Heating	
Capacity	EER	Capacity	COP	Capacity	EER	Capacity	COP
154,730	13.7	189,350	5.0	181,170	19.4	148,360	4.4

GROUND LOOP				FLOW RATE	
Cooling		Heating		AIR	WATER
Capacity	EER	Capacity	COP	CFM	GPM
166,000	17.9	105,260	3.5	5,000	35

### ELECTRICAL SPECIFICATIONS

Electrical Characteristics	Elect. Symbol	Compressor		Min Circuit Ampacity	Max Fuse Size
		RLA	LRA		
208/230/3/60	C	19.1	123.0	52.0	70
460/3/60	D	9.1	62.0	25.0	35
575/3/60	E	7.2	50.0	19.8	25

### FLUID PRESSURE DROP

Fluid Flow (GPM)	Pressure drop	
	(FOH)	(PSIG)
20	3.4	1.5
25	5.1	2.2
30	7.0	3.0
<b>35</b>	<b>9.3</b>	<b>4.0</b>
50	17.6	7.6

	UNIT WEIGHT (lbs)		DIMENSION		
	Unit Weight	Shipping Weight	Length	Width	Height
Vertical	620	650			
Horizontal	650	670	93.25	37.25	21.25

### COOLING

Entering Fluid Temp. (°F)	Entering Air Fluid (°F)	Total Capacity (MBtuH)	Sensible Capacity (MBtuH)	SHF	Power Input (kW)	Heat Rejection (MBtuH)	EER
50	70 db 61 wb	162.51	106.14	0.66	8.55	191.71	19.2
60		153.50	101.04	0.67	9.33	185.34	16.7
70		144.48	96.25	0.68	10.10	178.96	14.4
85		130.97	89.51	0.69	11.26	169.41	11.7
100		117.44	83.05	0.72	12.42	159.85	9.6
50	75 db 63 wb	174.39	127.60	0.74	8.60	203.72	20.5
60		164.74	121.51	0.75	9.37	196.73	17.8
70		155.09	115.82	0.76	10.15	189.74	15.5
85		140.61	107.78	0.78	11.32	179.25	12.5
100		126.14	100.09	0.80	12.49	168.77	10.2
50	80.6 db 66.2 wb	191.76	139.85	0.75	8.66	221.28	22.4
<b>60</b>		<b>181.17</b>	<b>141.25</b>	<b>0.75</b>	<b>9.43</b>	<b>213.38</b>	<b>19.4</b>
70		170.60	128.26	0.76	10.22	205.49	16.9
<b>85</b>		<b>154.73</b>	<b>119.40</b>	<b>0.78</b>	<b>11.40</b>	<b>193.65</b>	<b>13.7</b>
100		138.86	110.93	0.81	12.58	181.81	11.1
50	85 db 71 wb	209.13	155.04	0.75	8.71	238.84	24.2
60		197.62	147.70	0.76	9.50	230.05	21.0
70		186.11	140.82	0.77	10.29	221.24	18.3
85		168.85	131.14	0.79	11.48	208.04	14.9
100		151.59	121.88	0.81	12.68	194.84	12.1

### HEATING

Entering Fluid Temp. (°F)	Entering Air Fluid (°F)	Total Capacity (MBtuH)	Power Input (kW)	Heat of Absorb. (MBtuH)	COP
50	60	156.68	9.87	123.01	4.8
60		178.38	10.46	142.68	5.1
70		200.08	11.06	162.35	5.4
80		221.78	11.65	182.01	5.7
<b>50</b>	<b>70</b>	<b>148.36</b>	<b>10.02</b>	<b>114.16</b>	<b>4.4</b>
60		168.86	10.63	132.59	4.8
<b>70</b>		<b>189.35</b>	<b>11.23</b>	<b>151.02</b>	<b>5.0</b>
80		209.86	11.84	169.45	5.3
50	80	138.59	10.21	103.73	4.1
60		157.68	10.84	120.71	4.4
70		176.77	11.45	137.67	4.6
80		195.86	12.07	154.65	4.9

### LOW TEMP HEATING

with Antifreeze by ARI-ISO 13256-1

Entering Fluid Temp. (°F)	Entering Air Fluid (°F)	Total Capacity (MBtuH)	Power Input (kW)	Heat of Absorb. (MBtuH)	COP
25	60	100.42	8.38	71.83	3.5
32		111.06	8.68	81.46	3.8
40		132.34	9.27	100.70	4.2
25	<b>70</b>	95.21	8.50	66.18	3.3
<b>32</b>		<b>105.26</b>	<b>8.81</b>	<b>75.19</b>	<b>3.5</b>
40		125.35	9.41	93.22	3.9
25	80	89.08	8.67	59.51	3.0
32		98.43	8.97	67.81	3.2
40		117.15	9.60	84.42	3.6

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

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