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Swimming Pool, Aquaculture and Geothermal Heat Pumps

HRHPX024

Specification Capacity Data Sheet

Water Loop				Ground Water				Ground Loop			
Cooling		Heating		Cooling		Heating		Cooling		Heating	
Capacity	EER	Capacity	COP	Capacity	EER	Capacity	COP	Capacity	EER	Capacity	COP
25,500	17.0	27,500	5.0	27,500	27.6	20,500	4.2	25,500	19.7	16,500	3.6

Performance at	
800	CFM
6.0	GPM

Cooling							
Entering Fluid Temp (°F)	Entering Air Temp (°F)	Total Capacity (MBtuH)	Sensible Capacity (MBtuH)	SHF	Power Input (kW)	Heating of Reject (MBtuH)	EER
50	70 db 61 wb	31.27	10.41	0.33	1.03	34.16	36.10
59		30.08	9.98	0.33	1.18	33.49	29.60
70		28.63	9.38	0.33	1.37	32.68	23.70
86		26.39	8.61	0.33	1.67	31.45	17.60
100		24.37	0.00	0.00	1.97	30.42	13.50
50	75 db 63 wb	27.74	19.77	0.71	1.04	30.65	31.80
59		26.82	19.56	0.73	1.19	30.23	26.30
70		25.41	18.79	0.74	1.36	29.43	21.20
86		23.45	17.93	0.76	1.65	28.44	15.80
100		21.70	17.05	0.79	1.95	27.71	12.20
50	80.6 db 66.2 wb	29.35	21.63	0.74	1.03	32.23	34.00
59		27.50	20.62	0.75	1.17	30.86	27.40
70		26.87	20.56	0.77	1.36	30.87	22.50
86		25.50	20.11	0.79	1.67	30.55	17.00
100		22.93	18.87	0.82	1.95	28.95	12.80
50	85 db 71 wb	31.76	21.15	0.67	1.07	34.78	35.00
59		30.56	20.58	0.67	1.16	33.89	30.70
70		29.06	19.99	0.69	1.35	33.02	24.60
86		26.79	19.19	0.72	1.64	31.75	18.20
100		24.78	18.35	0.74	1.94	30.75	14.00

Heating					
Entering Fluid Temp (°F)	Entering Air Temp (°F)	Total Capacity (MBtuH)	Power Input (kW)	Heating of Abs. (MBtuH)	COP
50	60	21.85	1.52	17.22	4.7
60		24.52	1.56	19.77	5.2
68		26.68	1.58	21.86	5.5
80		30.25	1.64	25.23	6.0
50	68	20.50	1.60	15.62	4.2
60		24.08	1.70	18.87	4.6
68		27.50	1.78	22.00	5.0
80		29.78	1.78	24.28	5.4
50	80	21.13	1.89	15.24	3.6
60		23.62	1.92	17.65	4.0
68		25.80	1.95	19.71	4.2
80		29.28	2.04	22.90	4.6

Low Temp Heating (with Antifreeze by ARI-ISO13256-1)					
Entering Fluid Temp (°F)	Entering Air Temp (°F)	Total Capacity (MBtuH)	Power Input (kW)	Heating of Abs. (MBtuH)	COP
25	60	15.19	1.38	11.07	3.7
32		16.73	1.39	12.54	4.0
40		18.59	1.41	14.36	4.4
25	68	14.97	1.50	10.45	3.3
32		16.50	1.51	11.92	3.6
40		18.34	1.53	13.70	3.9
25	80	14.74	1.70	9.50	2.8
32		16.25	1.73	10.93	3.1
40		18.05	1.74	12.68	3.4

Fluid Press. Drop		
Fluid Flow (GPM)	Pressure Drop	
	(FOH)	(PSIG)
3.0	1.4	0.6
4.0	2.6	1.1
5.3	4.5	1.9
6.0	5.8	2.5
7.5	9.0	3.9



Units are subject to change without notice please contact us for up-to-date values.