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Swimming Pool, Aquaculture and Geothermal Heat Pumps

Specification Capacity Data Sheet

HRHPX041

Water Loop				Ground Water				Ground Loop			
Cooling		Heating		Cooling		Heating		Cooling		Heating	
Capacity	EER	Capacity	COP	Capacity	EER	Capacity	COP	Capacity	EER	Capacity	COP
41,000	16.0	47,000	4.8	47,000	21.4	37,500	4.1	44,000	17.2	26,500	3.6

Performance at	
1,400	CFM
10.5	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	45.71	30.67	0.67	2.37	52.42	23.2
59		43.59	29.72	0.68	2.52	50.93	20.5
70		40.91	28.48	0.70	2.72	48.82	17.6
86		36.85	26.55	0.72	3.03	45.82	14.0
100		33.01	24.79	0.75	3.29	42.89	11.4
50	75 db 63 wb	47.38	34.81	0.73	2.36	54.07	24.1
59		45.18	33.81	0.75	2.52	52.41	21.3
70		42.40	32.58	0.77	2.72	50.32	18.2
86		38.18	30.60	0.80	3.04	47.18	14.5
100		34.22	28.93	0.85	3.31	44.16	11.7
50	80.6 db 66.2 wb	36.22	32.22	0.89	3.36	46.31	12.3
59		47.00	36.48	0.78	2.60	54.49	21.4
70		44.84	35.85	0.80	2.73	52.77	19.3
86		41.00	0.00	0.00	2.96	49.74	16.0
100		50.12	38.06	0.76	2.35	56.77	25.7
50	85 db 71 wb	54.17	37.28	0.69	2.32	60.72	28.2
59		51.73	36.30	0.70	2.49	58.86	24.7
70		48.52	35.12	0.72	2.71	56.41	21.0
86		43.57	33.18	0.76	3.06	52.65	16.4
100		39.01	31.32	0.80	3.38	49.17	13.1

Heating					
Entering Fluid Temp (°F)	Entering Air Temp (°F)	Total Capacity (MBtuH)	Power Input (kW)	Heating of Abs. (MBtuH)	COP
50	60	38.86	2.96	30.14	4.5
60		44.52	3.08	35.38	4.9
68		48.98	3.14	39.64	5.2
80		55.39	3.17	45.94	5.9
50		37.50	3.08	28.35	4.1
60	68	42.90	3.21	33.30	4.5
68		47.00	3.27	37.21	4.8
80		53.52	3.35	43.45	5.3
50	80	0.00	0.40	0.00	3.6
60		40.61	3.41	30.33	4.0
68		44.83	3.52	34.19	4.2
80		0.00	0.40	0.00	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	24.30	2.43	17.40	3.5
32		27.75	2.54	20.47	3.8
40		31.58	2.66	23.88	4.1
25	68	22.97	2.49	15.85	3.2
32		26.50	2.62	18.93	3.5
40		30.32	2.75	22.28	3.8
25	80	21.49	2.58	14.06	2.9
32		24.13	2.71	16.27	3.1
40		28.34	2.89	19.86	3.3

Fluid Press. Drop		
Fluid Flow (GPM)	Pressure Drop	
	(FOH)	(PSIG)
5.3	5.1	2.2
7.0	9.1	4.0
9.2	15.7	6.8
10.5	20.2	8.8
13.1	31.6	13.8



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