



WATER SOURCE & GEOTHERMAL HEAT PUMPS SPECIFICATION DATA SHEET

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GCHP01120

WATER SOURCE & GEOTHERMAL HEAT PUMPS
R410A REFRIGERANT

WATER LOOP				GROUND WATER			
Cooling		Heating		Cooling		Heating	
Capacity	EER	Capacity	COP	Capacity	EER	Capacity	COP
124,440	12.9	160,980	4.4	133,890	17.3	18,840	3.8

GROUND LOOP				FLOW RATE	
Cooling		Heating		AIR	WATER
Capacity	EER	Capacity	COP	CFM	GPM
122,000	16.1	94,800	3.1	3,800	30

ELECTRICAL SPECIFICATIONS

Electrical Characteristics	Elect. Symbol	Compressor		Min Circuit Ampacity	Max Fuse Size
		RLA	LRA		
208/230/1/60	A	29.0	145.0	77.6	100
208/230/3/60	C	18.0	123.0	46.9	60
460/3/60	D	9.7	70.0	25.1	35
575/3/60	E	7.7	53.0	19.3	25

FLUID PRESSURE DROP

Fluid Flow (GPM)	Pressure drop (FOH) (PSIG)	
16	4.8	2.1
20	7.2	3.1
24	10.0	4.3
28	13.2	5.7
30	15.8	6.9

	UNIT WEIGHT (lbs)		DIMENSION		
	Unit Weight	Shipping Weight	Length	Width	Height
Vertical	620	650	48.50	28.00	68.50
Horizontal	650	670	80.00	36.00	21.50

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	116.99	77.15	0.67	6.98	140.79	17.0
60		113.78	75.66	0.67	7.73	140.13	14.9
70		110.55	74.45	0.68	8.47	139.46	13.2
85		105.73	73.08	0.70	9.58	138.45	11.1
100		100.90	72.20	0.73	10.71	137.45	9.5
50	75 db 63 wb	125.38	92.31	0.75	7.01	149.32	18.1
60		121.94	90.54	0.75	7.77	148.44	15.9
70		118.49	89.09	0.76	8.51	147.56	14.1
85		113.32	87.47	0.78	9.65	146.24	11.9
100		108.15	86.42	0.81	10.77	144.91	10.1
50	80.6 db 66.2 wb	137.66	101.96	0.75	7.07	161.78	19.7
60		133.89	100.00	0.76	7.83	160.59	17.3
70		130.11	98.40	0.77	8.59	159.40	15.4
85		124.44	96.63	0.79	9.72	157.61	12.9
100		118.78	95.47	0.81	10.86	155.82	11.0
50	85 db 71 wb	149.93	111.71	0.76	7.12	174.24	21.3
60		145.82	109.56	0.76	7.89	172.73	18.7
70		141.71	107.82	0.77	8.65	171.24	16.6
85		135.55	105.87	0.79	9.80	168.98	13.9
100		129.39	104.60	0.82	10.94	166.73	11.9

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

HEATING

Entering Fluid Temp. (°F)	Entering Air Fluid (°F)	Total Capacity (MBtuH)	Power Input (kW)	Heat of Absorb. (MBtuH)	COP
50	60	136.25	9.93	102.34	4.1
60		153.26	10.36	117.90	4.4
70		170.27	10.79	133.45	4.7
80		187.27	11.21	149.01	5.0
50	70	128.84	10.11	94.32	3.8
60		144.90	10.54	108.92	4.1
70		160.98	10.98	123.50	4.4
80		177.05	11.41	138.09	4.6
50	80	120.14	10.33	84.87	3.5
60		135.11	10.78	98.32	3.8
70		150.07	11.22	111.77	4.0
80		165.03	11.67	125.21	4.2

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	91.89	8.87	61.63	3.1
32		100.22	9.08	69.24	3.3
40		116.9	9.50	84.46	3.7
25	70	86.93	9.02	56.13	2.9
32		94.80	9.24	63.27	3.1
40		110.55	9.68	77.53	3.4
25	80	81.10	9.22	49.63	2.7
32		88.54	9.44	56.22	2.8
40		103.11	9.89	69.37	3.2