DUAL AIR

Saving the environment for future generations

WATER SOURCE & GEOTHERMAL HEAT PUMPS

SPECIFICATION DATA SHEET

Green Planet Supply, 6947 Coal Creek Parkway SE, PMB 111, Newcastle, WA 98059 |
Phone: 1-888-205-7866

DA/ CFF024

WATER SOURCE & GEOTHERMAL HEAT PUMPS
R454B REFRIGERANT

WATER LOOP				GROUND WATER			
Cooling		Heating		Cooling		Heating	
Capacity	EER	Capacity	COP	Capacity	EER	Capacity	COP
24,000	15.5	27,000	4.3	24,600	21.1	20,000	4.1

GROUND LOOP				FLOW RATE	
Cooling		Heating		AIR	WATER
Capacity	EER	Capacity	COP	CFM	GPM
25,000	17.1	16,000	3.6	800	6

CFM @ 1" ESP w/ 2"Merv 13 Filter

ELECTRICAL SPECIFICATIONS

Electrical Characteristics	Elect. Symbol	Compressor		Min Circuit Ampacity	Max Fuse Size
		RLA	LRA		
230/1/60	A	9.0	63.0	14.0	25
265/1/60	B	10.3	60.5	15.4	25
230/3/60	C	7.7	59.9	12.4	20
460/3/60	D	3.8	32.4	6.9	15

FLUID PRESSURE DROP

Fluid Flow	Pressure drop	
(GPM)	(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

	UNIT WEIGHT (lbs)		DIMENSION		
	Unit Weight	Shipping Weight	Length	Width	Height
Vertical	210	230	21.50	21.50	39.00
Horizontal	210	230	33.50	21.50	20.75

COOLING

Entering Fluid Temp. (0F)	Entering Air Fluid (0F)	Total Capacity (MBtuH)	Sensible Capacity (MBtuH)	SHF	Power Input (kW)	Heat Rejection (MBtuH)	EER
50	70 db 61 wb	31.27	10.41	0.33	1.03	34.16	36.1
59		30.08	9.98	0.33	1.18	33.48	29.6
70		28.63	9.38	0.33	1.37	32.68	23.7
86		26.39	8.61	0.33	1.67	31.45	17.6
100		24.34	0.00	0.00	1.97	30.42	13.5
50	75 db 63 wb	27.74	19.77	0.71	1.04	30.65	31.8
59		26.82	19.56	0.73	1.19	30.23	26.3
70		25.41	18.79	0.74	1.36	29.43	21.2
86		23.45	17.93	0.76	1.65	28.44	15.8
100		21.70	17.05	0.79	1.95	27.71	12.2
50	**80.6 db 66.2 wb**	29.35	21.63	0.74	1.03	32.3	34.0
59		**27.50**	**20.62**	**0.75**	**1.17**	**30.86**	**27.4**
70		26.87	20.56	0.77	1.36	30.87	22.5
86		**25.50**	**20.11**	**0.79**	**1.67**	**30.55**	**17.0**
100		22.93	18.87	0.82	1.95	28.95	12.8
50	85 db 71 wb	31.76	21.15	0.67	1.07	34.78	35.0
59		30.56	20.58	0.67	1.16	33.89	30.7
70		29.06	19.99	0.69	1.35	33.02	24.6
86		26.79	19.19	0.72	1.64	31.75	18.2
100		24.78	18.35	0.74	1.94	30.75	14.0

As a result of continuing research and development, specifications are subject to change without notice.
Please contact factory for up-to-date values.

HEATING

Entering Fluid Temp. (0F)	Entering Air Fluid (0F)	Total Capacity (MBtuH)	Power Input (kW)	Heat of Absorb. (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

Entering Fluid Temp. (0F)	Entering Air Fluid (0F)	Total Capacity (MBtuH)	Power Input (kW)	Heat of Absorb. (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	-
32		**16.50**	**1.51**	**11.92**	**-**
40		18.34	1.53	13.70	-
25	80	14.74	1.70	9.50	-
32		16.25	1.73	10.93	3.1
40		19.05	1.74	12.69	3.4

Note: COP values marked with a dash were covered by a scan icon in the source photo and could not be read; the last row is partly cut off at the bottom edge of the source photo.