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/ CFF036

WATER SOURCE & GEOTHERMAL HEAT PUMPS
R454B REFRIGERANT

WATER LOOP				GROUND WATER			
Cooling		Heating		Cooling		Heating	
Capacity	EER	Capacity	COP	Capacity	EER	Capacity	COP
35,500	15.5	38,000	4.3	35,500	21.1	31,500	4.1

GROUND LOOP				FLOW RATE	
Cooling		Heating		AIR	WATER
Capacity	EER	Capacity	COP	CFM	GPM
35,500	17.1	25,500	3.6	1,200	9

ELECTRICAL SPECIFICATIONS

Electrical Characteristics	Elect. Symbol	Compressor		Min Circuit Ampacity	Max Fuse Size
		RLA	LRA		
230/1/60	A	14.4	86.0	24.0	40.0
265/1/60	B	12.2	83.0	20.3	30.0
230/3/60	C	9.0	70.0	17.2	25.0
460/3/60	D	4.1	39.0	7.2	15.0

	UNIT WEIGHT (lbs)		DIMENSION		
	Unit Weight	Shipping Weight	Length	Width	Height
Vertical	220	240	21.50	21.50	39.00
Horizontal	215	235	40.13	23.00	20.75

FLUID PRESSURE DROP

Fluid Flow	Pressure drop	
(GPM)	(FOH)	(PSIG)
4.5	4.0	1.8
6.0	7.2	3.1
7.9	12.5	5.4
9.0	**16.1**	**7.0**
11.3	25.2	10.9

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	38.47	25.24	0.66	1.79	43.55	25.9
59		37.05	24.57	0.66	1.97	42.74	22.2
70		35.28	23.77	0.67	2.20	41.73	18.6
86		32.62	22.43	0.69	2.57	40.33	14.4
100		30.19	21.29	0.71	2.95	39.22	11.4
50	75 db 63 wb	39.80	28.37	0.71	1.80	44.89	26.7
59		38.34	27.72	0.72	1.98	44.05	22.9
70		36.54	26.80	0.73	2.21	43.03	19.2
86		33.79	25.53	0.76	2.57	41.52	14.9
100		31.25	24.49	0.78	2.95	40.28	11.8
50	**80.6 db 66.2 wb**	41.97	30.84	0.73	1.81	47.10	27.9
59		**40.00**	**29.74**	**0.74**	**2.01**	**45.81**	**23.5**
70		38.57	29.23	0.76	2.22	45.09	20.2
86		**36.00**	**28.39**	**0.79**	**2.56**	**43.68**	**16.0**
100		33.02	27.01	0.82	2.95	42.06	12.5
50	85 db 71 wb	45.35	30.16	0.66	1.82	50.53	29.9
59		43.75	29.39	0.67	2.00	49.54	25.8
70		41.66	28.55	0.69	2.24	48.26	21.6
86		38.51	27.46	0.71	2.61	46.38	16.7
100		35.88	26.44	0.74	2.97	44.98	13.5

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	32.69	2.42	25.49	4.5
60		36.92	2.47	29.53	5.0
68		40.40	2.51	32.87	5.4
80		45.63	2.58	37.86	5.9
50	**68**	**32.00**	**2.54**	**24.38**	**4.2**
60		36.31	2.64	28.35	4.6
68		**40.00**	**2.75**	**31.67**	**4.8**
80		44.85	2.76	36.48	5.4
50	80	31.78	2.93	22.84	3.6
60		35.65	2.96	26.61	3.9
68		38.71	2.99	29.54	4.2
80		43.82	3.08	34.36	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	23.87	2.21	17.38	3.7
32		26.34	2.25	19.71	4.0
40		29.25	2.3	22.45	4.3
25	**68**	23.62	2.37	16.56	3.3
32		**26.00**	**2.42**	**18.78**	**—**
40		28.89	2.48	21.46	—
25	80	20.84	2.65	12.83	—
32		24.42	2.73	16.13	—
40		28.67	2.85	19.98	3.3