DUAL AIR

Saving the environment for future generations

WATER SOURCE & GEOTHERMAL HEAT PUMPS

SPECIFICATION DATA SHEET

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DA/ CFF060

WATER SOURCE & GEOTHERMAL HEAT PUMPS

R454B REFRIGERANT

WATER LOOP				GROUND WATER			
Cooling		Heating		Cooling		Heating	
Capacity	EER	Capacity	COP	Capacity	EER	Capacity	COP
59,000	15.5	68,000	4.3	62,500	20.00	50,000	4.0

GROUND LOOP				FLOW RATE	
Cooling		Heating		AIR	WATER
Capacity	EER	Capacity	COP	CFM	GPM
63,000	16.00	43,000	3.5	1,900	15.0

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	22.6	148.0	34.2	60.0
230/3/60	C	13.1	93.0	22.3	35.0
460/3/60	D	6.6	60.0	10.4	15.0

FLUID PRESSURE DROP

Fluid Flow	Pressure drop	
(GPM)	(FOH)	(PSIG)
7.5	4.6	2.0
10.1	8.3	3.6
13.2	14.2	6.2
15.0	**18.4**	**8.0**
18.8	28.8	12.5

	UNIT WEIGHT (lbs)		DIMENSION		
	Unit Weight	Shipping Weight	Length	Width	Height
Vertical	320	340	26.00	24.00	43.00
Horizontal	340	360	45.50	26.00	21.00

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	64.55	42.23	0.65	3.17	73.68	24.1
59		62.22	41.18	0.66	3.43	72.25	21.2
70		59.28	39.78	0.67	3.79	70.54	18.0
86		54.84	37.70	0.69	4.40	68.18	14.0
100		50.87	35.95	0.71	4.97	66.14	11.14
50	75 db 63 wb	66.82	47.60	0.71	3.17	75.96	25.0
59		64.42	46.48	0.72	3.44	74.48	21.8
70		61.41	45.02	0.73	3.80	72.71	18.5
86		56.74	43.42	0.77	4.38	70.00	14.6
100		52.66	41.43	0.79	4.97	67.95	11.7
50	**80.6 db 66.2 wb**	70.59	52.08	0.74	3.19	79.79	26.2
59		**68.00**	**50.92**	**0.75**	**3.58**	**78.55**	**22.0**
70		64.77	49.65	0.77	3.81	76.09	19.5
86		**60.00**	**47.41**	**0.79**	**4.24**	**72.80**	**16.0**
100		55.49	45.97	0.83	4.98	70.83	12.3
50	85 db 71 wb	76.35	50.74	0.66	3.22	85.66	28.0
59		73.61	49.56	0.67	3.49	83.83	24.6
70		70.11	48.63	0.69	3.84	81.54	20.9
86		64.94	46.19	0.71	4.42	78.36	16.5
100		60.10	44.68	0.74	5.04	75.63	13.2

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	58.05	4.39	44.74	4.4
60		65.48	4.53	51.70	4.8
68		71.67	4.66	57.46	5.0
80		81.88	4.89	66.87	5.5
50	**68**	**58.00**	**4.64**	**43.85**	**4.1**
60		64.01	4.82	49.24	4.3
68		**70.00**	**5.05**	**54.44**	**4.5**
80		80.57	5.23	64.39	5.0
50	80	55.68	5.19	39.62	3.5
60		62.84	5.37	46.20	3.8
68		69.02	5.53	51.82	4.0
80		78.65	5.80	60.53	4.3

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	41.94	3.92	30.24	3.6
32		45.83	3.98	33.91	3.8
40		50.74	4.07	38.51	4.2
25	68	41.34	4.18	28.73	3.3
32		**45.00**	**4.26**	**32.14**	**3.5**
40		49.69	4.36	36.5	3.8
25	80	40.41	4.65	26.23	2.8
32		44.14	4.74	29.63	3.0
40		48.47	4.83	33.65	3.3