



COLDFLOW

REFRIGERATION & ENGINEERING SOLUTIONS

WATER SOURCE & GEOTHERMAL HEAT PUMPS SPECIFICATION DATA SHEET

1050 NW 21st Street, Miami, Florida 33128 | Phone: 305-545-6666 | Fax: 305-325-1966

CFX012

WATER SOURCE & GEOTHERMAL HEAT PUMPS
R410A REFRIGERANT

WATER LOOP				GROUND WATER			
Cooling		Heating		Cooling		Heating	
Capacity	EER	Capacity	COP	Capacity	EER	Capacity	COP
11,500	16.10	13,000	4.30	13,000	21.10	10,100	3.80

GROUND LOOP				FLOW RATE	
Cooling		Heating		AIR	WATER
Capacity	EER	Capacity	COP	CFM	GPM
11,900	16.1	9,300	3.4	400	3

ELECTRICAL SPECIFICATIONS

Electrical Characteristics	Elect. Symbol	Compressor		Min Circuit Ampacity	Max Fuse Size
		RLA	LRA		
115/1/60	F	8.3	40.0	12.6	20.0
208/230/1/60	A	4.0	20.0	6.0	15.0
265/1/60	B	3.3	16.0	5.0	15.0

FLUID PRESSURE DROP

Fluid Flow (GPM)	Pressure drop	
	(FOH)	(PSIG)
1.5	3.2	1.4
2.0	5.3	2.3
2.5	7.9	3.4
3.0	11.0	4.8
3.5	14.5	6.3

	UNIT WEIGHT (lbs)		DIMENSION		
	Unit Weight	Shipping Weight	Length	Width	Height
Vertical	135	155	19.0	19.0	32.0
Horizontal	125	145	31.0	19.0	15.25

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	11.01	7.22	0.66	0.64	13.9	17.2
60		10.56	6.99	0.66	0.70	12.95	15.1
70		10.12	6.78	0.67	0.76	12.71	13.4
85		9.46	6.50	0.69	0.85	12.35	11.2
100		8.79	6.25	0.71	0.93	11.98	9.4
50	75 db 63 wb	11.79	8.61	0.73	0.64	13.98	18.3
60		11.31	8.33	0.74	0.70	13.71	16.1
70		10.84	8.09	0.75	0.76	13.44	14.2
85		10.13	7.75	0.77	0.85	13.03	11.9
100		9.42	7.46	0.79	0.94	12.63	10.0
50	80 db 67 wb	12.93	9.50	0.73	0.65	15.14	20.0
60		12.41	9.19	0.74	0.71	14.82	17.5
70		11.89	8.92	0.75	0.77	14.51	15.5
85		11.11	8.55	0.77	0.86	14.04	13.0
100		10.33	8.23	0.80	0.95	13.56	10.9
50	85 db 71 wb	14.06	10.39	0.74	0.65	16.29	21.5
60		13.50	10.06	0.74	0.71	15.93	18.9
70		12.94	9.76	0.75	0.77	15.58	16.7
85		12.09	9.36	0.77	0.86	15.04	14.0
100		11.24	9.00	0.80	0.96	14.50	11.8

HEATING

Entering Fluid Temp. (°F)	Entering Air Fluid (°F)	Total Capacity (MBtuH)	Power Input (kW)	Heat of Absorb. (MBtuH)	COP
50	60	12.14	0.88	9.16	4.1
60		13.83	0.91	10.71	4.4
70		15.51	0.95	12.27	4.8
80		17.20	0.99	13.82	5.1
50	70	11.48	0.89	8.43	3.8
60		13.07	0.93	9.89	4.1
70		14.66	0.97	11.35	4.4
80		16.25	1.01	12.81	4.7
50	80	10.69	0.91	7.58	3.4
60		12.17	0.95	8.93	3.7
70		13.66	0.99	10.27	4.0
80		15.14	1.03	11.62	4.3

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	7.78	0.78	5.11	2.9
30		8.60	0.80	5.87	3.1
40		10.26	0.84	7.39	3.6
25	70	7.35	0.80	4.63	2.7
30		8.13	0.82	5.35	2.9
40		9.69	0.85	6.78	3.3
25	80	6.85	0.82	4.07	2.5
30		7.58	0.83	4.73	2.7
40		9.03	0.87	6.05	3.0

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

Please contact factory for up-to-date values. Website: www.dualairhp.com