



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	85 db 71 wb	10.33	8.23	0.80	0.95	13.56	10.9
50		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.

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CFX024

WATER SOURCE & GEOTHERMAL HEAT PUMPS
R410A REFRIGERANT

WATER LOOP				GROUND WATER			
Cooling		Heating		Cooling		Heating	
Capacity	EER	Capacity	COP	Capacity	EER	Capacity	COP
25,500	17	27,500	5.0	27,500	27.4	20,500	4.2

GROUND LOOP				FLOW RATE	
Cooling		Heating		AIR	WATER
Capacity	EER	Capacity	COP	CFM	GPM
25,500	19.7	16,500	3.6	800	6

ELECTRICAL SPECIFICATIONS

Electrical Characteristics	Elect. Symbol	Compressor		Min Circuit Ampacity	Max Fuse Size
		RLA	LRA		
208-230/1/60	A	12.8	60	19	30
208-230/3/60	C	7.8	55	13	20
460/3/60	D	3.9	22.4	6	15
265/1/60	B	10.9	58	16	25

FLUID PRESSURE DROP

Fluid Flow (GPM)	Pressure drop	
(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. (°F)	Entering Air Fluid (°F)	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	85 db 71 wb	22.93	18.87	0.82	1.95	28.95	12.8
50		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

HEATING

Entering Fluid Temp. (°F)	Entering Air Fluid (°F)	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-ISO 13256-1

Entering Fluid Temp. (°F)	Entering Air Fluid (°F)	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	3.3
32		16.50	1.51	11.92	3.6
40		18.34	1.53	13.70	3.9
25	80	14.74	1.70	9.50	2.8
32		16.25	1.73	10.93	3.1
40		18.05	1.74	12.68	3.4

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CFX031

WATER SOURCE & GEOTHERMAL HEAT PUMPS
R410A REFRIGERANT

WATER LOOP				GROUND WATER			
Cooling		Heating		Cooling		Heating	
Capacity	EER	Capacity	COP	Capacity	EER	Capacity	COP
31,000	16	36,000	4.8	39,000	26	27,000	4.1

GROUND LOOP				FLOW RATE	
Cooling		Heating		AIR	WATER
Capacity	EER	Capacity	COP	CFM	GPM
31,800	17.6	20,000	3.5	1,000	7.5

ELECTRICAL SPECIFICATIONS

Electrical Characteristics	Elect. Symbol	Compressor		Min Circuit Ampacity	Max Fuse Size
		RLA	LRA		
230/1/60	A	14.7	72.5	24	35
230/3/60	C	10.4	63	19	25
460/3/60	D	4.5	31	9	15
265/1/60	B	12.5	61	16	25

FLUID PRESSURE DROP

Fluid Flow (GPM)	Pressure drop	
	(FOH)	(PSIG)
3.8	2.1	0.9
5.0	3.8	1.7
6.6	6.6	2.9
7.5	8.5	3.7
9.4	13.3	5.8

	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. (°F)	Entering Air Fluid (°F)	Total Capacity (MBtuH)	Sensible Capacity (MBtuH)	SHF	Power Input (kW)	Heat Rejection (MBtuH)	EER
50	70 db 61 wb	36.08	23.88	0.66	1.65	40.72	26.5
59		34.33	23.07	0.67	1.79	39.45	22.9
70		32.13	22.05	0.69	1.97	37.86	19.1
86		28.82	20.58	0.71	2.21	35.38	15.0
100		25.81	19.21	0.74	2.42	33.10	12.1
50	75 db 63 wb	37.52	26.98	0.72	1.64	42.13	27.8
59		35.71	25.66	0.72	1.78	40.81	23.9
70		33.43	24.60	0.74	1.97	39.17	19.9
86		30.03	22.97	0.77	2.23	36.65	15.5
100		26.90	21.58	0.80	2.44	34.26	12.5
50	80.6 db 66.2 wb	39.86	28.84	0.72	1.62	44.41	29.9
59		39.00	28.76	0.74	1.79	44.12	26.0
70		35.52	26.88	0.76	1.96	41.25	21.12
86		31.00	24.65	0.80	2.22	37.61	16.0
100	85 db 71 wb	28.63	23.93	0.84	2.33	35.59	14.0
50		43.52	28.93	0.66	1.57	47.90	33.9
59		41.39	28.08	0.68	1.81	46.59	27.2
70		38.78	26.98	0.70	1.98	44.55	22.9
86		34.87	24.82	0.71	2.26	41.60	17.7
100		31.40	23.50	0.75	2.37	38.50	15.1

HEATING

Entering Fluid Temp. (°F)	Entering Air Fluid (°F)	Total Capacity (MBtuH)	Power Input (kW)	Heat of Absorb. (MBtuH)	COP
50	60	28.69	2.15	22.32	4.5
60		33.00	2.26	26.26	4.9
68		36.52	2.33	29.56	5.2
80		41.69	2.38	34.56	5.8
50	68	27.00	2.22	20.41	4.1
60		31.73	2.37	24.62	4.5
68		36.00	2.49	28.50	4.8
80		40.45	2.54	32.76	5.3
50	80	25.87	2.38	18.72	3.6
60		29.90	2.53	22.25	3.9
68		33.38	2.64	25.36	4.2
80		38.55	2.77	30.08	4.6

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	18.28	1.80	13.13	3.6
32		20.93	1.90	15.44	3.8
40		24.15	2.00	18.29	4.1
25	68	17.40	1.85	12.06	3.3
32		20.00	1.96	14.29	3.5
40		23.14	2.08	17.01	3.8
25	80	16.04	1.93	10.45	2.9
32		18.57	2.05	12.55	3.1
40		21.59	2.19	15.11	3.3

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Rev. 001



WATER SOURCE & GEOTHERMAL HEAT PUMPS SPECIFICATION DATA SHEET

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CFX036

WATER SOURCE & GEOTHERMAL HEAT PUMPS
R410A REFRIGERANT

WATER LOOP				GROUND WATER			
Cooling		Heating		Cooling		Heating	
Capacity	EER	Capacity	COP	Capacity	EER	Capacity	COP
36,000	16	40,000	4.8	40,000	23.5	32,000	4.2

GROUND LOOP				FLOW RATE	
Cooling		Heating		AIR	WATER
Capacity	EER	Capacity	COP	CFM	GPM
36,500	17.9	26,000	3.6	1,200	9

ELECTRICAL SPECIFICATIONS

Electrical Characteristics	Elect. Symbol	Compressor		Min Circuit Ampacity	Max Fuse Size
		RLA	LRA		
208-230/1/60	A	16.7	79	27	40
208-230/3/60	C	10.4	73	19	25
460/3/60	D	5.7	38	10	15
575/3/60	E	3.8	36.5	7	15

FLUID PRESSURE DROP

Fluid Flow (GPM)	Pressure drop (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

	UNIT WEIGHT (lbs)		DIMENSION		
	Unit Weight	Shipping Weight	Length	Width	Height
Vertical	220	240	21.50	21.50	39.00
Horizontal	215	235	33.50	21.50	20.75

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	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	85 db 71 wb	33.02	27.01	0.82	2.95	42.06	12.5
50		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

HEATING

Entering Fluid Temp. (°F)	Entering Air Fluid (°F)	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-ISO 13256-1

Entering Fluid Temp. (°F)	Entering Air Fluid (°F)	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	3.6
40		28.89	2.48	21.46	3.9
25	80	20.84	2.65	12.83	2.6
32		24.42	2.73	16.13	2.9
40		28.67	2.85	19.98	3.3

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R410A REFRIGERANT

WATER LOOP				GROUND WATER			
Cooling		Heating		Cooling		Heating	
Capacity	EER	Capacity	COP	Capacity	EER	Capacity	COP
41,000	16.0	47,000	4.8	47,000	21.4	37,500	4.1

GROUND LOOP				FLOW RATE	
Cooling		Heating		AIR	WATER
Capacity	EER	Capacity	COP	CFM	GPM
44,000	17.0	26,500	3.5	1,400	10.5

ELECTRICAL SPECIFICATIONS

Electrical Characteristics	Elect. Symbol	Compressor		Min Circuit Ampacity	Max Fuse Size
		RLA	LRA		
208-230/1/60	A	17.9	112	28	45
208-230/3/60	C	13.2	88	23	35
460/3/60	D	5.9	44	10	15

FLUID PRESSURE DROP

Fluid Flow (GPM)	Pressure drop	
(FOH)	(PSIG)	
5.3	5.1	2.2
7.0	9.1	4.0
9.2	15.7	6.8
10.5	20.2	8.8
13.1	31.6	13.8

	UNIT WEIGHT (lbs)		DIMENSION		
	Unit Weight	Shipping Weight	Length	Width	Height
Vertical	220	240	21.50	21.50	39.00
Horizontal	215	235	33.50	21.50	20.75

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	45.71	30.67	0.67	2.37	52.42	23.2
59		43.59	29.72	0.68	2.52	50.83	20.5
70		40.91	28.48	0.70	2.72	48.82	17.6
86		36.85	26.55	0.72	3.03	45.82	14.0
100		33.01	24.79	0.75	3.29	42.89	11.4
50	75 db 63 wb	47.38	34.81	0.73	2.36	54.07	24.1
59		45.18	33.81	0.75	2.52	52.41	21.3
70		42.40	32.58	0.77	2.72	50.32	18.2
86		38.18	30.60	0.80	3.04	47.18	14.5
100		34.22	28.93	0.85	3.31	44.16	11.7
50	80.6 db 66.2 wb	36.22	32.22	0.89	3.36	46.31	12.3
59		47.00	36.48	0.78	2.60	54.49	21.4
70		44.84	35.85	0.80	2.73	52.77	19.3
86		41.00	0.00	0.00	2.96	49.74	16.0
100	85 db 71 wb	50.12	38.06	0.76	2.35	56.77	25.7
50		54.17	37.28	0.69	2.32	60.72	28.2
59		51.73	36.30	0.70	2.49	58.86	24.8
70		48.52	35.12	0.72	2.71	56.41	21.0
86		43.57	33.18	0.76	3.06	52.65	16.4
100		39.01	31.32	0.80	3.38	49.17	13.1

HEATING

Entering Fluid Temp. (°F)	Entering Air Fluid (°F)	Total Capacity (MBtuH)	Power Input (kW)	Heat of Absorb. (MBtuH)	COP
50	60	38.86	2.96	30.14	4.5
60		44.52	3.08	35.38	4.9
68		48.98	3.14	39.64	5.2
80		55.39	3.17	45.94	5.9
50	68	37.50	3.08	28.35	4.1
60		42.90	3.21	33.30	4.5
68		47.00	3.27	37.21	4.8
80		53.52	3.35	43.45	5.3
50	80	0.00	0.40	0.00	3.6
60		40.61	3.41	30.33	4.0
68		44.83	3.52	34.19	4.2
80		0.00	0.40	0.00	4.6

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	24.30	2.43	17.40	3.5
32		27.75	2.54	20.47	3.8
40		31.58	2.66	23.88	4.1
25	68	22.97	2.49	15.85	3.2
32		26.50	2.62	18.93	3.5
40		30.32	2.75	22.28	3.8
25	80	21.49	2.58	14.06	2.9
32		24.13	2.71	16.27	3.1
40		28.34	2.89	19.86	3.3

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



WATER SOURCE & GEOTHERMAL HEAT PUMPS SPECIFICATION DATA SHEET

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

CFX060

WATER SOURCE & GEOTHERMAL HEAT PUMPS
R410A REFRIGERANT

WATER LOOP				GROUND WATER			
Cooling		Heating		Cooling		Heating	
Capacity	EER	Capacity	COP	Capacity	EER	Capacity	COP
60,000	16.0	70,000	4.5	68,000	22.0	58,000	4.1

GROUND LOOP				FLOW RATE	
Cooling		Heating		AIR	WATER
Capacity	EER	Capacity	COP	CFM	GPM
63,000	17.2	45,000	3.5	1,900	15.0

ELECTRICAL SPECIFICATIONS

Electrical Characteristics	Elect. Symbol	Compressor		Min Circuit Ampacity	Max Fuse Size
		RLA	LRA		
208-230/1/60	A	26.4	134	39	60
208-230/3/60	C	16	110	26	40
460/3/60	D	7.8	52	13	20
575/3/60	E	5.7	38.9	10	15

FLUID PRESSURE DROP

Fluid Flow (GPM)	Pressure drop (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. (°F)	Entering Air Fluid (°F)	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	85 db 71 wb	55.49	45.97	0.83	4.98	70.83	12.3
50		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

HEATING

Entering Fluid Temp. (°F)	Entering Air Fluid (°F)	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-ISO 13256-1

Entering Fluid Temp. (°F)	Entering Air Fluid (°F)	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

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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

CFX090

WATER SOURCE & GEOTHERMAL HEAT PUMPS
R410A REFRIGERANT

WATER LOOP				GROUND WATER			
Cooling		Heating		Cooling		Heating	
Capacity	EER	Capacity	COP	Capacity	EER	Capacity	COP
90,000	14.0	109,500	4.5	115,180	19.5	94,370	4.1

GROUND LOOP				FLOW RATE	
Cooling		Heating		AIR	WATER
Capacity	EER	Capacity	COP	CFM	GPM
102,300	15.3	69,730	3.3	3,000	24

ELECTRICAL SPECIFICATIONS

Electrical Characteristics	Elect. Symbol	Compressor		Min Circuit Ampacity	Max Fuse Size
		RLA	LRA		
208/230/1/60	A	21.2	113	57.9	70
208/230/3/60	C	15.1	110	48.2	60
460/3/60	D	8.4	60	21.4	30
575/3/60	E	4.8	34	12.8	15

FLUID PRESSURE DROP

Fluid Flow (GPM)	Pressure drop	
	(FOH)	(PSIG)
12	5.7	2.4
14	7.5	3.2
18	11.7	5.1
21	15.5	6.7
24	19.7	8.5

	UNIT WEIGHT (lbs)		DIMENSION		
	Unit Weight	Shipping Weight	Length	Width	Height
Vertical	620	650	48.50	28.00	68.50
Horizontal	650	670	93.25	37.25	21.25

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	104.23	68.94	0.66	5.36	122.51	19.5
60		97.96	65.32	0.67	5.82	117.82	16.8
70		91.69	61.89	0.68	6.28	113.12	14.6
85		82.28	56.99	0.69	6.97	106.08	11.8
100		72.88	52.22	0.72	7.66	99.03	9.5
50	75 db 63 wb	111.66	82.38	0.74	5.39	130.05	20.7
60		104.95	78.06	0.74	5.85	124.92	17.9
70		98.24	73.98	0.75	6.31	119.79	15.6
85		88.17	68.14	0.77	7.01	112.10	12.6
100		78.10	62.46	0.80	7.71	104.41	10.1
50	80.6 db 66.2 wb	122.54	90.92	0.74	5.43	141.06	22.6
60		115.18	86.17	0.75	5.90	135.30	19.5
70		107.82	81.67	0.76	6.36	129.54	16.9
85		96.78	75.23	0.78	7.07	120.90	13.7
100		85.75	68.97	0.80	7.77	112.26	11.0
50	85 db 71 wb	133.41	99.55	0.75	5.47	152.08	24.4
60		125.41	94.35	0.75	5.94	145.69	21.1
70		117.40	89.43	0.76	6.41	139.29	18.3
85		105.40	82.39	0.78	7.12	129.70	14.8
100		93.39	75.54	0.81	7.83	120.11	11.9

HEATING

Entering Fluid Temp. (°F)	Entering Air Fluid (°F)	Total Capacity (MBtuH)	Power Input (kW)	Heat of Absorb. (MBtuH)	COP
50	60	99.81	6.63	77.20	4.4
60		112.12	6.91	88.53	4.8
68		124.42	7.19	99.87	5.1
80		136.73	7.48	111.20	5.4
50	68	94.37	6.75	71.35	4.1
60		106.00	7.04	81.98	4.4
68		117.62	7.33	92.62	4.7
80		129.25	7.62	103.25	5.0
50	80	87.98	6.89	64.45	3.7
60		98.81	7.19	74.26	4.0
68		109.63	7.49	84.08	4.3
80		120.46	7.78	93.89	4.5

LOW TEMP HEATING

with Antifreeze by ARI-ISO 33216-1

Entering Fluid Temp. (°F)	Entering Air Fluid (°F)	Total Capacity (MBtuH)	Power Input (kW)	Heat of Absorb. (MBtuH)	COP
25	60	67.70	5.91	47.52	3.4
32		73.73	6.06	53.06	3.6
40		85.79	6.34	64.15	4
25	68	64.03	6.02	43.48	3.1
32		69.73	6.17	48.69	3.3
40		81.13	6.46	59.09	3.7
25	80	59.72	6.15	38.73	2.6
32		65.03	6.30	43.53	3.0
40		75.64	6.6	53.13	3.4

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