



WATER COOLED CHILLER / HEAT PUMP SPECIFICATION DATA SHEET

CXZW120CND
WATER COOLED REVERSE CYCLE CHILLERS
R410A REFRIGERANT

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CHILLER PERFORMANCE

Based on 22.9 GPM load and 28.5 GPM source fluid flow.

Leaving Load Fluid(°F)	Entering Source Fluid(°F)	Total Capacity (Tons)	Total Capacity (MBtuH)	Power Input (kW)	EER	Heat Rejection (MBtuH)
40°	75°	9.47	113.59	7.13	15.94	137.91
	80°	9.20	110.37	7.50	14.73	135.94
	85°	8.91	106.96	7.91	13.52	133.96
	90°	8.62	103.39	8.38	12.33	131.99
	95°	8.31	99.67	8.90	11.20	130.05
42°	75°	9.79	117.48	7.16	16.41	141.91
	80°	9.52	114.23	7.53	15.18	139.91
	85°	9.23	110.79	7.94	13.95	137.89
	90°	8.93	107.17	8.41	12.74	135.86
	95°	8.62	103.38	8.93	11.58	133.84
44°	75°	9.95	119.46	7.18	16.65	143.94
	80°	9.68	116.20	7.54	15.41	141.93
	85°	9.39	112.74	7.96	14.17	139.89
	90°	9.09	109.09	8.42	12.95	137.83
	95°	8.77	105.27	8.94	11.77	135.78
45°	75°	10.12	121.45	7.19	16.89	145.99
	80°	9.85	118.19	7.56	15.64	143.97
	85°	9.56	114.71	7.97	14.39	141.91
	90°	9.25	111.03	8.44	13.16	139.82
	95°	8.93	107.18	8.95	11.97	137.73
46°	75°	10.46	125.51	7.22	17.37	150.16
	80°	10.19	122.22	7.59	16.10	148.12
	85°	9.89	118.71	8.00	14.83	146.02
	90°	9.58	114.98	8.47	13.58	143.88
	95°	9.26	111.06	8.98	12.36	141.71
48°	75°	10.63	127.57	7.24	17.62	152.28
	80°	10.36	124.27	7.61	16.34	150.23
	85°	10.06	120.74	8.02	15.05	148.11
	90°	9.75	116.99	8.48	13.79	145.93
	95°	9.42	113.04	9.00	12.56	143.73
50°	75°	10.98	131.76	7.27	18.12	156.57
	80°	10.70	128.44	7.64	16.82	154.50
	85°	10.41	124.87	8.05	15.51	152.34
	90°	10.09	121.07	8.52	14.22	150.12
	95°	9.75	117.05	9.03	12.97	147.84

*** Due to ongoing research & development, specifications are subject to change without notice. ***

UNIT WEIGHT (lbs)		DIMENSION		
Unit Weight	Shipping Weight	Length	Width	Height
		48.50	27.75	31.25

ELECTRICAL SPECIFICATIONS

Electrical Characteristics	Elect. Symbol	Compressor		Min Circuit Ampacity	Max Fuse Size
		RLA	LRA		
208/230/3/60	A	37.0	239.0	46.3	80
460/3/60	D	20.0	125.0	25.0	45
575/3/60	E	14.3	80.0	17.9	30

FLUID FLOW & PRESSURE DROP

Chilled Fluid Side (@ 55°F)		Cond. Fluid Side (@ 55°F)	
Flow (GPM)	ΔP (FOH)	Flow (GPM)	ΔP (FOH)
18	5.4	18	4.7
22	7.7	22	6.7
26	10.5	26	9.1
30	13.6	30	11.9
34	17.0	34	14.9

HEATING PERFORMANCE

Based on 11 GPM load and 13.7 GPM source fluid flow.

Leaving Load Fluid(°F)	Entering Source Fluid(°F)	Heating Capacity (MBtuH)	Power Input (kW)	COP	Heat Absorb. (MBtuH)
100°	35°	109.52	8.38	3.83	80.94
	40°	117.13	8.36	4.11	88.61
	50°	133.58	8.34	4.69	105.12
	60°	151.63	8.33	5.33	123.19
110°	35°	107.57	9.57	3.29	74.91
	40°	114.80	9.53	3.53	82.30
	50°	130.58	9.45	4.05	98.32
	60°	148.09	9.41	4.61	115.99
120°	35°	106.27	10.99	2.83	68.78
	40°	112.97	10.91	3.04	75.75
	50°	127.79	10.78	3.47	91.01
	60°	144.48	10.69	3.96	108.02
125°	35°	105.70	12.62	2.45	62.64
	40°	111.73	12.51	2.62	69.06
	50°	125.31	12.32	2.98	83.28
	60°	140.88	12.17	3.39	99.35
	70°	158.42	12.07	3.85	117.25

Units are complete packages featuring 1-stage operation and containing fully charged compressor(s), reversing valve, expansion valve, metering device and water-to-refrigerant heat exchangers.

Also included are safety controls: overload protection for compressor(s), high- and low-pressure switches and lock-out control circuit.