

Water - cooled module

WX010DZV (C)

60 Hz Performance Data - English Units - Refrigerant R-410A

Water Leaving		40	41	42	43	44	45	46	47	48	49	50	
Chiller °F													
Water Entering													
Condenser °F													
70	Tons	10.8	11.0	11.3	11.5	11.7	11.9	12.2	12.4	12.6	12.9	13.1	
	Btuh	129,850	132,423	135,035	137,686	140,378	143,111	145,886	148,704	151,565	154,469	157,418	
	W	6,896	6,882	6,869	6,856	6,842	6,829	6,815	6,801	6,787	6,773	6,759	
	EER	18.8	19.2	19.7	20.1	20.5	21.0	21.4	21.9	22.3	22.8	23.3	
	NPLV	19.9	20.4	20.8	21.3	21.7	22.2	22.6	23.1	23.6	24.1	24.6	
	Evap Flow - GPM	26.0	26.5	27.0	27.5	28.1	28.6	29.2	29.7	30.3	30.9	31.5	
	Evap PD (HdFt)	5.40	5.60	5.81	6.02	6.24	6.46	6.69	6.93	7.18	7.43	7.70	
	Cond Flow - GPM	32.5	33.1	33.8	34.4	35.1	35.8	36.5	37.2	37.9	38.6	39.4	
	Cond PD (HdFt)	7.75	8.03	8.32	8.62	8.92	9.24	9.57	9.91	10.26	10.62	10.99	
	THR - Btuh	153,399	155,926	158,492	161,098	163,744	166,431	169,159	171,930	174,743	177,600	180,501	
75	Tons	10.6	10.8	11.0	11.2	11.4	11.6	11.9	12.1	12.3	12.6	12.8	
	Btuh	126,616	129,151	131,723	134,333	136,983	139,672	142,402	145,172	147,985	150,840	153,737	
	W	7,319	7,303	7,288	7,273	7,258	7,242	7,226	7,211	7,195	7,179	7,163	
	EER	17.3	17.7	18.1	18.5	18.9	19.3	19.7	20.1	20.6	21.0	21.5	
	NPLV	19.6	20.0	20.5	20.9	21.3	21.8	22.3	22.7	23.2	23.7	24.2	
	Evap Flow - GPM	25.3	25.8	26.3	26.9	27.4	27.9	28.5	29.0	29.6	30.2	30.7	
	Evap PD (HdFt)	5.16	5.35	5.55	5.75	5.96	6.18	6.40	6.63	6.87	7.12	7.37	
	Cond Flow - GPM	31.7	32.3	32.9	33.6	34.2	34.9	35.6	36.3	37.0	37.7	38.4	
	Cond PD (HdFt)	7.40	7.67	7.95	8.24	8.54	8.84	9.16	9.49	9.82	10.17	10.53	
	THR - Btuh	151,609	154,092	156,612	159,171	161,767	164,404	167,080	169,796	172,555	175,355	178,198	
80	Tons	10.3	10.5	10.7	10.9	11.1	11.3	11.6	11.8	12.0	12.3	12.5	
	Btuh	123,192	125,687	128,219	130,787	133,393	136,038	138,721	141,444	144,207	147,011	149,857	
	W	7,760	7,743	7,727	7,709	7,692	7,675	7,657	7,640	7,622	7,604	7,586	
	EER	15.9	16.2	16.6	17.0	17.3	17.7	18.1	18.5	18.9	19.3	19.8	
	NPLV	19.3	19.7	20.1	20.6	21.0	21.5	21.9	22.4	22.9	23.3	23.8	
	Evap Flow - GPM	24.6	25.1	25.6	26.2	26.7	27.2	27.7	28.3	28.8	29.4	30.0	
	Evap PD (HdFt)	4.90	5.09	5.28	5.47	5.68	5.89	6.10	6.32	6.55	6.79	7.03	
	Cond Flow - GPM	30.8	31.4	32.1	32.7	33.3	34.0	34.7	35.4	36.1	36.8	37.5	
	Cond PD (HdFt)	7.04	7.30	7.57	7.85	8.13	8.43	8.73	9.05	9.37	9.70	10.05	
	THR - Btuh	149,693	152,131	154,605	157,115	159,662	162,247	164,871	167,534	170,236	172,979	175,763	
85	Tons	10.0	10.2	10.4	10.6	10.8	11.0	11.2	11.5	11.7	11.9	12.1	
	Btuh	119,569	122,024	124,514	127,039	129,601	132,199	134,835	137,509	140,223	142,975	145,768	
	W	8,224	8,206	8,187	8,169	8,150	8,131	8,112	8,092	8,073	8,053	8,033	
	EER	14.5	14.9	15.2	15.6	15.9	16.3	16.6	17.0	17.4	17.8	18.1	
	NPLV	19.0	19.4	19.9	20.3	20.7	21.2	21.6	22.1	22.5	23.0	23.5	
	Evap Flow - GPM	23.9	24.4	24.9	25.4	25.9	26.4	27.0	27.5	28.0	28.6	29.2	
	Evap PD (HdFt)	4.64	4.82	5.00	5.19	5.38	5.58	5.79	6.00	6.22	6.45	6.68	
	Cond Flow - GPM	29.9	30.5	31.1	31.8	32.4	33.0	33.7	34.4	35.1	35.7	36.4	
	Cond PD (HdFt)	6.67	6.92	7.18	7.44	7.72	8.00	8.29	8.60	8.91	9.23	9.56	
	THR - Btuh	147,655	150,047	152,474	154,935	157,433	159,966	162,536	165,144	167,790	170,475	173,200	
90	Tons	9.6	9.8	10.0	10.3	10.5	10.7	10.9	11.1	11.3	11.6	11.8	
	Btuh	115,738	118,152	120,599	123,081	125,597	128,149	130,736	133,361	136,023	138,723	141,462	
	W	8,714	8,695	8,675	8,654	8,634	8,613	8,592	8,571	8,550	8,529	8,507	
	EER	13.3	13.6	13.9	14.2	14.5	14.9	15.2	15.6	15.9	16.3	16.6	
	NPLV	18.8	19.2	19.6	20.0	20.5	20.9	21.4	21.8	22.3	22.7	23.2	
	Evap Flow - GPM	23.1	23.6	24.1	24.6	25.1	25.6	26.1	26.7	27.2	27.7	28.3	
	Evap PD (HdFt)	4.37	4.54	4.72	4.90	5.08	5.27	5.47	5.67	5.88	6.10	6.32	
	Cond Flow - GPM	28.9	29.5	30.1	30.8	31.4	32.0	32.7	33.3	34.0	34.7	35.4	
	Cond PD (HdFt)	6.28	6.52	6.77	7.03	7.29	7.56	7.84	8.13	8.43	8.73	9.05	
	THR - Btuh	145,497	147,844	150,223	152,635	155,082	157,563	160,079	162,632	165,221	167,848	170,513	
95	Tons	9.3	9.5	9.7	9.9	10.1	10.3	10.5	10.7	11.0	11.2	11.4	
	Btuh	111,690	114,062	116,466	118,903	121,373	123,877	126,416	128,990	131,600	134,247	136,931	
	W	9,234	9,213	9,191	9,170	9,148	9,126	9,103	9,081	9,058	9,035	9,012	
	EER	12.1	12.4	12.7	13.0	13.3	13.6	13.9	14.2	14.5	14.9	15.2	
	NPLV	18.6	19.0	19.4	19.8	20.3	20.7	21.1	21.6	22.0	22.5	23.0	
	Evap Flow - GPM	22.3	22.8	23.3	23.8	24.3	24.8	25.3	25.8	26.3	26.8	27.4	
	Evap PD (HdFt)	4.10	4.26	4.42	4.60	4.77	4.96	5.14	5.34	5.54	5.74	5.96	
	Cond Flow - GPM	27.9	28.5	29.1	29.7	30.3	31.0	31.6	32.2	32.9	33.6	34.2	
	Cond PD (HdFt)	5.89	6.12	6.36	6.60	6.85	7.11	7.38	7.65	7.94	8.23	8.53	
	THR - Btuh	143,224	145,524	147,855	150,218	152,613	155,041	157,504	160,001	162,533	165,101	167,705	
EER IPLV		20.7		Kw/Ton		IPLV		0.58		COP IPLV		6.072	
EER at 100%		15.9		kW/ton at 100%				0.75		COP at 100%		4.659	
EER at 75%		19.4		kW/ton at 75%				0.62		COP at 75%		5.696	
EER at 50%		22.0		kW/ton at 50%				0.55		COP at 50%		6.449	
EER at 25%		20.8		kW/ton at 25%				0.58		COP at 25%		6.095	

Certified in accordance with the AHRI Water-Cooled Water Chilling Packages Using Vapor Compression Cycle Certification Program, which is based on AHRI Standard 550/590 (I-P). Certified units may be found in the AHRI Directory at [www.ahridirectory.org](http://www.ahridirectory.org)

W (Total Power Input in Watts) - Power input to unit, including controls

KW/ton (Power Input per Ton) - Power input to unit, including controls - in kW to the net refrigerating capacity in tons

EER (Energy Efficiency Ratio) - Btuh / Total power input in Watts

COP (Coefficient of Performance) - Cooling capacity in Watts / Total power input in Watts

IPLV (Integrated Part Load Value)

NPLV (Non-Standard Part Load Value)

Notes:

- Evaporator: Flow based on 2.4 gpm / ton for 10°F Evaporator temperature drop, with Fouling factor 0.0001 h · ft<sup>2</sup> · °F/Btu
- Condenser: Flow based on 3.0 gpm / ton for 10°F Evaporator temperature drop, with Fouling factor 0.00025 h · ft<sup>2</sup> · °F/Btu
- Interpolation between points is acceptable, Extrapolation is not acceptable.

