

**Air - cooled module**

**VX015DZV (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												
Air Entering												
Condenser °F												
65	Tons	15.2	15.5	15.8	16.1	16.4	16.8	17.1	17.5	17.8	18.2	18.5
	Btuh	182,008	185,742	189,543	193,414	197,354	201,366	205,450	209,607	213,839	218,146	222,530
	W	12,447	12,454	12,462	12,470	12,478	12,485	12,493	12,501	12,508	12,515	12,522
	EER	14.6	14.9	15.2	15.5	15.8	16.1	16.4	16.8	17.1	17.4	17.8
	Flow (GPM)	36.4	37.1	37.9	38.7	39.5	40.3	41.1	41.9	42.8	43.6	44.5
	PD (Hd. Ft.)	6.8	7.1	7.4	7.6	7.9	8.2	8.5	8.9	9.2	9.5	9.9
70	Tons	14.7	15.0	15.3	15.6	15.9	16.3	16.6	16.9	17.3	17.6	18.0
	Btuh	176,505	180,100	183,759	187,485	191,278	195,138	199,068	203,069	207,140	211,284	215,502
	W	13,062	13,070	13,077	13,085	13,093	13,100	13,108	13,115	13,122	13,129	13,136
	EER	13.5	13.8	14.1	14.3	14.6	14.9	15.2	15.5	15.8	16.1	16.4
	Flow (GPM)	35.3	36.0	36.8	37.5	38.3	39.0	39.8	40.6	41.4	42.3	43.1
	PD (Hd. Ft.)	6.4	6.7	6.9	7.2	7.5	7.8	8.1	8.4	8.7	9.0	9.3
75	Tons	14.3	14.5	14.8	15.1	15.4	15.8	16.1	16.4	16.7	17.0	17.4
	Btuh	171,100	174,559	178,080	181,665	185,313	189,026	192,806	196,653	200,568	204,553	208,608
	W	13,709	13,716	13,724	13,731	13,738	13,745	13,752	13,759	13,766	13,773	13,779
	EER	12.5	12.7	13.0	13.2	13.5	13.8	14.0	14.3	14.6	14.9	15.1
	Flow (GPM)	34.2	34.9	35.6	36.3	37.1	37.8	38.6	39.3	40.1	40.9	41.7
	PD (Hd. Ft.)	6.1	6.3	6.6	6.8	7.1	7.3	7.6	7.9	8.2	8.5	8.8
80	Tons	13.8	14.1	14.4	14.7	15.0	15.2	15.6	15.9	16.2	16.5	16.8
	Btuh	165,737	169,065	172,452	175,898	179,406	182,975	186,608	190,305	194,068	197,897	201,793
	W	14,393	14,400	14,406	14,413	14,420	14,427	14,433	14,440	14,446	14,452	14,458
	EER	11.5	11.7	12.0	12.2	12.4	12.7	12.9	13.2	13.4	13.7	14.0
	Flow (GPM)	33.1	33.8	34.5	35.2	35.9	36.6	37.3	38.1	38.8	39.6	40.4
	PD (Hd. Ft.)	5.7	5.9	6.2	6.4	6.6	6.9	7.1	7.4	7.7	8.0	8.3
85	Tons	13.4	13.6	13.9	14.2	14.5	14.7	15.0	15.3	15.6	15.9	16.3
	Btuh	160,363	163,563	166,818	170,131	173,501	176,931	180,420	183,971	187,585	191,262	195,003
	W	15,119	15,126	15,132	15,138	15,144	15,150	15,156	15,162	15,168	15,173	15,179
	EER	10.6	10.8	11.0	11.2	11.5	11.7	11.9	12.1	12.4	12.6	12.8
	Flow (GPM)	32.1	32.7	33.4	34.0	34.7	35.4	36.1	36.8	37.5	38.3	39.0
	PD (Hd. Ft.)	5.4	5.6	5.8	6.0	6.2	6.5	6.7	7.0	7.2	7.5	7.8
90	Tons	12.9	13.2	13.4	13.7	14.0	14.2	14.5	14.8	15.1	15.4	15.7
	Btuh	154,923	157,998	161,126	164,308	167,545	170,838	174,188	177,596	181,064	184,592	188,182
	W	15,895	15,900	15,906	15,911	15,916	15,922	15,927	15,932	15,937	15,942	15,946
	EER	9.7	9.9	10.1	10.3	10.5	10.7	10.9	11.1	11.4	11.6	11.8
	Flow (GPM)	31.0	31.6	32.2	32.9	33.5	34.2	34.8	35.5	36.2	36.9	37.6
	PD (Hd. Ft.)	5.1	5.2	5.4	5.6	5.9	6.1	6.3	6.5	6.8	7.0	7.3
95	Tons	12.4	12.7	12.9	13.2	13.5	13.7	14.0	14.3	14.5	14.8	15.1
	Btuh	149,362	152,316	155,320	158,375	161,482	164,642	167,856	171,125	174,451	177,834	181,276
	W	16,725	16,729	16,734	16,739	16,743	16,747	16,752	16,756	16,760	16,764	16,767
	EER	8.9	9.1	9.3	9.5	9.6	9.8	10.0	10.2	10.4	10.6	10.8
	Flow (GPM)	29.9	30.5	31.1	31.7	32.3	32.9	33.6	34.2	34.9	35.6	36.3
	PD (Hd. Ft.)	4.7	4.9	5.1	5.3	5.5	5.7	5.9	6.1	6.3	6.5	6.8
100	Tons	12.0	12.2	12.4	12.7	12.9	13.2	13.4	13.7	14.0	14.2	14.5
	Btuh	143,625	146,462	149,345	152,277	155,257	158,288	161,370	164,504	167,691	170,933	174,231
	W	17,616	17,619	17,623	17,626	17,629	17,633	17,636	17,639	17,642	17,645	17,648
	EER	8.2	8.3	8.5	8.6	8.8	9.0	9.2	9.3	9.5	9.7	9.9
	Flow (GPM)	28.7	29.3	29.9	30.5	31.1	31.7	32.3	32.9	33.5	34.2	34.8
	PD (Hd. Ft.)	4.4	4.6	4.7	4.9	5.1	5.3	5.5	5.7	5.9	6.1	6.3
105	Tons	11.5	11.7	11.9	12.2	12.4	12.6	12.9	13.1	13.4	13.7	13.9
	Btuh	137,658	140,381	143,148	145,959	148,817	151,722	154,675	157,677	160,730	163,834	166,991
	W	18,573	18,575	18,577	18,580	18,582	18,584	18,586	18,588	18,590	18,591	18,593
	EER	7.4	7.6	7.7	7.9	8.0	8.2	8.3	8.5	8.6	8.8	9.0
	Flow (GPM)	27.5	28.1	28.6	29.2	29.8	30.3	30.9	31.5	32.1	32.8	33.4
	PD (Hd. Ft.)	4.1	4.2	4.4	4.5	4.7	4.9	5.0	5.2	5.4	5.6	5.8

<b>EER IPLV</b>	<b>14.48</b>	<b>Kw/Ton</b>	<b>IPLV</b>	<b>0.83</b>	<b>COP IPLV</b>	<b>4.24</b>
EER at 100%	9.64	kW/ton at 100%		1.24	COP at 100%	2.83
EER at 75%	13.16	kW/ton at 75%		0.91	COP at 75%	3.86
EER at 50%	15.18	kW/ton at 50%		0.79	COP at 50%	4.45
EER at 25%	16.87	kW/ton at 25%		0.71	COP at 25%	4.94

Certified in accordance with the AHRI Air-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 IPLV (Integrated Part Load Value)

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

**Notes:**

1. 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
2. Condenser: 95°F Ambient Air Temperature, 120°F Condensing Temperature, Sea Level.
3. Interpolation between points is acceptable, Extrapolation is not acceptable.

