

Air - cooled module

VX030DZV (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	30.2	30.8	31.3	32.0	32.6	33.2	33.8	34.4	35.1	35.7	36.4
	Btuh	362,001	369,044	376,181	383,413	390,739	398,161	405,680	413,294	421,006	428,815	436,723
	W	25,105	25,165	25,226	25,291	25,359	25,429	25,503	25,580	25,660	25,744	25,832
	EER	14.4	14.7	14.9	15.2	15.4	15.7	15.9	16.2	16.4	16.7	16.9
	Flow (GPM)	72.4	73.8	75.2	76.7	78.1	79.6	81.1	82.7	84.2	85.8	87.3
PD (Hd. Ft.)	16.0	16.6	17.2	17.8	18.4	19.1	19.7	20.4	21.1	21.9	22.6	
70	Tons	29.4	30.0	30.5	31.1	31.7	32.3	33.0	33.6	34.2	34.8	35.5
	Btuh	352,731	359,618	366,596	373,667	380,830	388,087	395,438	402,883	410,423	418,058	425,789
	W	26,135	26,188	26,243	26,301	26,362	26,426	26,493	26,563	26,636	26,712	26,792
	EER	13.5	13.7	14.0	14.2	14.4	14.7	14.9	15.2	15.4	15.7	15.9
	Flow (GPM)	70.5	71.9	73.3	74.7	76.2	77.6	79.1	80.6	82.1	83.6	85.2
PD (Hd. Ft.)	15.2	15.8	16.4	17.0	17.6	18.2	18.8	19.5	20.2	20.9	21.6	
75	Tons	28.6	29.1	29.7	30.3	30.9	31.5	32.1	32.7	33.3	33.9	34.5
	Btuh	342,971	349,690	356,498	363,397	370,387	377,467	384,639	391,904	399,261	406,711	414,255
	W	27,252	27,300	27,350	27,402	27,457	27,514	27,574	27,637	27,703	27,772	27,844
	EER	12.6	12.8	13.0	13.3	13.5	13.7	13.9	14.2	14.4	14.6	14.9
	Flow (GPM)	68.6	69.9	71.3	72.7	74.1	75.5	76.9	78.4	79.9	81.3	82.9
PD (Hd. Ft.)	14.5	15.0	15.5	16.1	16.7	17.3	17.9	18.5	19.2	19.8	20.5	
80	Tons	27.7	28.3	28.8	29.4	30.0	30.5	31.1	31.7	32.3	32.9	33.5
	Btuh	332,714	339,255	345,883	352,599	359,404	366,297	373,280	380,353	387,516	394,770	402,116
	W	28,465	28,507	28,551	28,598	28,647	28,698	28,752	28,809	28,868	28,930	28,996
	EER	11.7	11.9	12.1	12.3	12.5	12.8	13.0	13.2	13.4	13.6	13.9
	Flow (GPM)	66.5	67.9	69.2	70.5	71.9	73.3	74.7	76.1	77.5	79.0	80.4
PD (Hd. Ft.)	13.7	14.2	14.7	15.2	15.8	16.3	16.9	17.5	18.1	18.8	19.4	
85	Tons	26.8	27.4	27.9	28.4	29.0	29.5	30.1	30.7	31.3	31.9	32.4
	Btuh	321,958	328,309	334,746	341,268	347,877	354,572	361,355	368,225	375,184	382,231	389,368
	W	29,777	29,815	29,854	29,896	29,939	29,985	30,033	30,084	30,137	30,193	30,252
	EER	10.8	11.0	11.2	11.4	11.6	11.8	12.0	12.2	12.4	12.7	12.9
	Flow (GPM)	64.4	65.7	66.9	68.3	69.6	70.9	72.3	73.6	75.0	76.4	77.9
PD (Hd. Ft.)	12.9	13.4	13.8	14.3	14.9	15.4	15.9	16.5	17.1	17.7	18.3	
90	Tons	25.9	26.4	26.9	27.4	28.0	28.5	29.1	29.6	30.2	30.8	31.3
	Btuh	310,696	316,848	323,082	329,400	335,802	342,288	348,860	355,517	362,260	369,090	376,006
	W	31,196	31,230	31,264	31,301	31,340	31,380	31,423	31,468	31,516	31,566	31,618
	EER	10.0	10.1	10.3	10.5	10.7	10.9	11.1	11.3	11.5	11.7	11.9
	Flow (GPM)	62.1	63.4	64.6	65.9	67.2	68.5	69.8	71.1	72.5	73.8	75.2
PD (Hd. Ft.)	12.1	12.5	13.0	13.4	13.9	14.4	14.9	15.5	16.0	16.6	17.2	
95	Tons	24.9	25.4	25.9	26.4	26.9	27.5	28.0	28.5	29.1	29.6	30.2
	Btuh	298,926	304,866	310,887	316,989	323,174	329,440	335,790	342,222	348,739	355,340	362,026
	W	32,727	32,757	32,787	32,820	32,854	32,890	32,927	32,967	33,010	33,054	33,101
	EER	9.1	9.3	9.5	9.7	9.8	10.0	10.2	10.4	10.6	10.8	10.9
	Flow (GPM)	59.8	61.0	62.2	63.4	64.6	65.9	67.2	68.4	69.7	71.1	72.4
PD (Hd. Ft.)	11.2	11.7	12.1	12.5	13.0	13.4	13.9	14.4	14.9	15.5	16.0	
100	Tons	23.9	24.4	24.8	25.3	25.8	26.3	26.8	27.4	27.9	28.4	29.0
	Btuh	286,642	292,360	298,157	304,033	309,988	316,024	322,141	328,338	334,618	340,979	347,424
	W	34,376	34,402	34,429	34,457	34,487	34,519	34,552	34,588	34,625	34,664	34,706
	EER	8.3	8.5	8.7	8.8	9.0	9.2	9.3	9.5	9.7	9.8	10.0
	Flow (GPM)	57.3	58.5	59.6	60.8	62.0	63.2	64.4	65.7	66.9	68.2	69.5
PD (Hd. Ft.)	10.4	10.8	11.2	11.6	12.0	12.5	12.9	13.4	13.8	14.3	14.8	
105	Tons	22.8	23.3	23.7	24.2	24.7	25.2	25.7	26.2	26.7	27.2	27.7
	Btuh	273,839	279,324	284,886	290,525	296,241	302,035	307,908	313,859	319,891	326,002	332,194
	W	36,149	36,171	36,195	36,220	36,246	36,274	36,303	36,334	36,367	36,402	36,438
	EER	7.6	7.7	7.9	8.0	8.2	8.3	8.5	8.6	8.8	9.0	9.1
	Flow (GPM)	54.8	55.9	57.0	58.1	59.2	60.4	61.6	62.8	64.0	65.2	66.4
PD (Hd. Ft.)	9.6	9.9	10.3	10.7	11.1	11.5	11.9	12.3	12.7	13.2	13.7	

EER IPLV	14.04	Kw/Ton	IPLV	0.85	COP IPLV	4.11
EER at 100%	9.84	kW/ton at 100%		1.22	COP at 100%	2.88
EER at 75%	12.90	kW/ton at 75%		0.93	COP at 75%	3.78
EER at 50%	14.75	kW/ton at 50%		0.81	COP at 50%	4.32
EER at 25%	15.70	kW/ton at 25%		0.76	COP at 25%	4.60

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

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 · ft² · °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.

