

Air - cooled module

VX025DZV (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	25.7	26.2	26.8	27.3	27.9	28.4	29.0	29.6	30.2	30.8	31.4
	Btuh	308,683	314,946	321,323	327,814	334,422	341,148	347,994	354,963	362,056	369,274	376,620
	W	21,632	21,673	21,715	21,758	21,804	21,851	21,901	21,952	22,005	22,061	22,119
	EER	14.3	14.5	14.8	15.1	15.3	15.6	15.9	16.2	16.5	16.7	17.0
	Flow (GPM)	61.7	63.0	64.3	65.6	66.9	68.2	69.6	71.0	72.4	73.9	75.3
	PD (Hd. Ft.)	11.9	12.4	12.8	13.3	13.8	14.3	14.9	15.4	16.0	16.6	17.2
70	Tons	25.0	25.5	26.0	26.5	27.0	27.6	28.1	28.7	29.3	29.8	30.4
	Btuh	299,796	305,831	311,973	318,225	324,588	331,064	337,655	344,362	351,188	358,135	365,203
	W	22,604	22,641	22,680	22,720	22,762	22,805	22,850	22,897	22,946	22,997	23,050
	EER	13.3	13.5	13.8	14.0	14.3	14.5	14.8	15.0	15.3	15.6	15.8
	Flow (GPM)	60.0	61.2	62.4	63.6	64.9	66.2	67.5	68.9	70.2	71.6	73.0
	PD (Hd. Ft.)	11.3	11.7	12.2	12.6	13.1	13.6	14.1	14.6	15.1	15.7	16.3
75	Tons	24.2	24.7	25.2	25.7	26.2	26.8	27.3	27.8	28.4	28.9	29.5
	Btuh	290,951	296,764	302,678	308,697	314,821	321,052	327,393	333,845	340,410	347,090	353,886
	W	23,641	23,675	23,710	23,747	23,785	23,825	23,866	23,909	23,954	24,001	24,050
	EER	12.3	12.5	12.8	13.0	13.2	13.5	13.7	14.0	14.2	14.5	14.7
	Flow (GPM)	58.2	59.4	60.5	61.7	63.0	64.2	65.5	66.8	68.1	69.4	70.8
	PD (Hd. Ft.)	10.7	11.1	11.5	11.9	12.4	12.8	13.3	13.8	14.3	14.8	15.3
80	Tons	23.5	24.0	24.4	24.9	25.4	25.9	26.4	26.9	27.5	28.0	28.5
	Btuh	282,051	287,647	293,340	299,130	305,021	311,014	317,110	323,313	329,622	336,042	342,572
	W	24,748	24,779	24,812	24,846	24,881	24,917	24,955	24,995	25,036	25,078	25,123
	EER	11.4	11.6	11.8	12.0	12.3	12.5	12.7	12.9	13.2	13.4	13.6
	Flow (GPM)	56.4	57.5	58.7	59.8	61.0	62.2	63.4	64.7	65.9	67.2	68.5
	PD (Hd. Ft.)	10.1	10.5	10.9	11.3	11.7	12.1	12.5	13.0	13.5	13.9	14.4
85	Tons	22.7	23.2	23.7	24.1	24.6	25.1	25.6	26.1	26.6	27.1	27.6
	Btuh	272,999	278,383	283,859	289,428	295,091	300,851	306,709	312,668	318,728	324,893	331,163
	W	25,931	25,960	25,990	26,021	26,053	26,087	26,122	26,158	26,196	26,235	26,276
	EER	10.5	10.7	10.9	11.1	11.3	11.5	11.7	12.0	12.2	12.4	12.6
	Flow (GPM)	54.6	55.7	56.8	57.9	59.0	60.2	61.3	62.5	63.7	65.0	66.2
	PD (Hd. Ft.)	9.5	9.9	10.2	10.6	11.0	11.4	11.8	12.2	12.7	13.1	13.6
90	Tons	22.0	22.4	22.8	23.3	23.7	24.2	24.7	25.2	25.6	26.1	26.6
	Btuh	263,695	268,874	274,140	279,492	284,934	290,466	296,092	301,812	307,629	313,545	319,561
	W	27,195	27,222	27,250	27,279	27,309	27,340	27,372	27,406	27,440	27,477	27,514
	EER	9.7	9.9	10.1	10.2	10.4	10.6	10.8	11.0	11.2	11.4	11.6
	Flow (GPM)	52.7	53.8	54.8	55.9	57.0	58.1	59.2	60.4	61.5	62.7	63.9
	PD (Hd. Ft.)	8.9	9.2	9.6	9.9	10.3	10.7	11.0	11.4	11.9	12.3	12.7
95	Tons	21.2	21.6	22.0	22.4	22.9	23.3	23.8	24.2	24.7	25.2	25.6
	Btuh	254,042	259,022	264,082	269,224	274,450	279,762	285,160	290,649	296,228	301,900	307,667
	W	28,546	28,571	28,598	28,625	28,653	28,682	28,712	28,743	28,775	28,808	28,843
	EER	8.9	9.1	9.2	9.4	9.6	9.8	9.9	10.1	10.3	10.5	10.7
	Flow (GPM)	50.8	51.8	52.8	53.8	54.9	56.0	57.0	58.1	59.2	60.4	61.5
	PD (Hd. Ft.)	8.3	8.6	8.9	9.3	9.6	9.9	10.3	10.7	11.1	11.4	11.9
100	Tons	20.3	20.7	21.1	21.5	22.0	22.4	22.8	23.3	23.7	24.2	24.6
	Btuh	243,942	248,729	253,590	258,527	263,543	268,639	273,817	279,078	284,425	289,860	295,384
	W	29,989	30,013	30,038	30,064	30,090	30,118	30,146	30,174	30,204	30,235	30,268
	EER	8.1	8.3	8.4	8.6	8.8	8.9	9.1	9.2	9.4	9.6	9.8
	Flow (GPM)	48.8	49.7	50.7	51.7	52.7	53.7	54.8	55.8	56.9	58.0	59.1
	PD (Hd. Ft.)	7.7	8.0	8.3	8.6	8.9	9.2	9.6	9.9	10.3	10.6	11.0
105	Tons	19.4	19.8	20.2	20.6	21.0	21.4	21.8	22.3	22.7	23.1	23.6
	Btuh	233,297	237,896	242,564	247,303	252,114	257,000	261,963	267,004	272,125	277,328	282,614
	W	31,530	31,554	31,578	31,602	31,627	31,653	31,680	31,707	31,735	31,764	31,794
	EER	7.4	7.5	7.7	7.8	8.0	8.1	8.3	8.4	8.6	8.7	8.9
	Flow (GPM)	46.7	47.6	48.5	49.5	50.4	51.4	52.4	53.4	54.4	55.5	56.5
	PD (Hd. Ft.)	7.1	7.4	7.7	7.9	8.2	8.5	8.8	9.1	9.5	9.8	10.1

EER IPLV	14.23	Kw/Ton	IPLV	0.84	COP IPLV	4.17
EER at 100%	9.58	kW/ton at 100%		1.25	COP at 100%	2.81
EER at 75%	13.02	kW/ton at 75%		0.92	COP at 75%	3.81
EER at 50%	14.92	kW/ton at 50%		0.80	COP at 50%	4.37
EER at 25%	16.29	kW/ton at 25%		0.74	COP at 25%	4.77

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.

