

Air - cooled module

VX020DZV (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	20.6	20.9	21.3	21.7	22.1	22.5	22.9	23.4	23.8	24.2	24.6
	Btuh	246,710	251,350	256,043	260,787	265,583	270,431	275,331	280,284	285,289	290,347	295,457
	W	16,117	16,134	16,150	16,167	16,183	16,198	16,213	16,227	16,241	16,254	16,267
	EER	15.3	15.6	15.9	16.1	16.4	16.7	17.0	17.3	17.6	17.9	18.2
	Flow (GPM)	49.3	50.3	51.2	52.2	53.1	54.1	55.1	56.1	57.1	58.1	59.1
PD (Hd. Ft.)	12.0	12.4	12.8	13.3	13.7	14.2	14.7	15.2	15.7	16.2	16.7	
70	Tons	20.0	20.4	20.8	21.2	21.6	22.0	22.4	22.8	23.2	23.6	24.0
	Btuh	239,894	244,509	249,177	253,897	258,669	263,494	268,371	273,302	278,284	283,320	288,410
	W	16,787	16,802	16,817	16,832	16,846	16,860	16,874	16,888	16,901	16,914	16,927
	EER	14.3	14.6	14.8	15.1	15.4	15.6	15.9	16.2	16.5	16.8	17.0
	Flow (GPM)	48.0	48.9	49.8	50.8	51.7	52.7	53.7	54.7	55.7	56.7	57.7
PD (Hd. Ft.)	11.4	11.8	12.2	12.6	13.1	13.5	14.0	14.5	15.0	15.5	16.0	
75	Tons	19.4	19.8	20.1	20.5	20.9	21.3	21.7	22.1	22.6	23.0	23.4
	Btuh	232,589	237,162	241,786	246,463	251,193	255,976	260,812	265,701	270,643	275,638	280,687
	W	17,565	17,578	17,590	17,603	17,615	17,628	17,640	17,652	17,664	17,677	17,688
	EER	13.2	13.5	13.7	14.0	14.3	14.5	14.8	15.1	15.3	15.6	15.9
	Flow (GPM)	46.5	47.4	48.4	49.3	50.2	51.2	52.2	53.1	54.1	55.1	56.1
PD (Hd. Ft.)	10.7	11.1	11.5	12.0	12.4	12.8	13.3	13.8	14.2	14.7	15.2	
80	Tons	18.7	19.1	19.5	19.9	20.3	20.7	21.1	21.5	21.9	22.3	22.7
	Btuh	224,830	229,340	233,903	238,519	243,188	247,910	252,685	257,514	262,396	267,333	272,323
	W	18,453	18,462	18,471	18,481	18,490	18,500	18,510	18,521	18,531	18,542	18,552
	EER	12.2	12.4	12.7	12.9	13.2	13.4	13.7	13.9	14.2	14.4	14.7
	Flow (GPM)	45.0	45.9	46.8	47.7	48.6	49.6	50.5	51.5	52.5	53.5	54.5
PD (Hd. Ft.)	10.1	10.5	10.9	11.3	11.7	12.1	12.5	13.0	13.4	13.9	14.4	
85	Tons	18.1	18.4	18.8	19.2	19.6	19.9	20.3	20.7	21.1	21.5	21.9
	Btuh	216,649	221,078	225,560	230,096	234,685	239,328	244,025	248,775	253,579	258,438	263,350
	W	19,450	19,455	19,461	19,466	19,473	19,479	19,486	19,494	19,502	19,510	19,519
	EER	11.1	11.4	11.6	11.8	12.1	12.3	12.5	12.8	13.0	13.2	13.5
	Flow (GPM)	43.3	44.2	45.1	46.0	46.9	47.9	48.8	49.8	50.7	51.7	52.7
PD (Hd. Ft.)	9.4	9.8	10.2	10.5	10.9	11.3	11.7	12.2	12.6	13.1	13.5	
90	Tons	17.3	17.7	18.1	18.4	18.8	19.2	19.6	20.0	20.4	20.7	21.2
	Btuh	208,079	212,409	216,792	221,229	225,720	230,265	234,863	239,516	244,224	248,986	253,802
	W	20,558	20,558	20,559	20,560	20,562	20,565	20,568	20,573	20,577	20,582	20,588
	EER	10.1	10.3	10.5	10.8	11.0	11.2	11.4	11.6	11.9	12.1	12.3
	Flow (GPM)	41.6	42.5	43.4	44.2	45.1	46.1	47.0	47.9	48.8	49.8	50.8
PD (Hd. Ft.)	8.7	9.1	9.4	9.8	10.2	10.5	10.9	11.3	11.8	12.2	12.6	
95	Tons	16.6	16.9	17.3	17.7	18.0	18.4	18.8	19.1	19.5	19.9	20.3
	Btuh	199,153	203,365	207,631	211,950	216,324	220,752	225,235	229,772	234,364	239,011	243,712
	W	21,776	21,771	21,766	21,762	21,760	21,758	21,757	21,757	21,758	21,759	21,762
	EER	9.1	9.3	9.5	9.7	9.9	10.1	10.4	10.6	10.8	11.0	11.2
	Flow (GPM)	39.8	40.7	41.5	42.4	43.3	44.2	45.0	46.0	46.9	47.8	48.7
PD (Hd. Ft.)	8.1	8.4	8.7	9.0	9.4	9.8	10.1	10.5	10.9	11.3	11.7	
100	Tons	15.8	16.2	16.5	16.9	17.2	17.6	17.9	18.3	18.7	19.0	19.4
	Btuh	189,906	193,981	198,110	202,294	206,532	210,824	215,172	219,575	224,032	228,545	233,113
	W	23,106	23,094	23,084	23,074	23,066	23,059	23,053	23,048	23,044	23,042	23,040
	EER	8.2	8.4	8.6	8.8	9.0	9.1	9.3	9.5	9.7	9.9	10.1
	Flow (GPM)	38.0	38.8	39.6	40.5	41.3	42.2	43.0	43.9	44.8	45.7	46.6
PD (Hd. Ft.)	7.4	7.7	8.0	8.3	8.6	9.0	9.3	9.7	10.0	10.4	10.8	
105	Tons	15.0	15.4	15.7	16.0	16.4	16.7	17.1	17.4	17.8	18.1	18.5
	Btuh	180,369	184,289	188,263	192,292	196,376	200,514	204,708	208,958	213,262	217,623	222,039
	W	24,547	24,529	24,512	24,496	24,481	24,468	24,457	24,446	24,437	24,429	24,423
	EER	7.3	7.5	7.7	7.9	8.0	8.2	8.4	8.5	8.7	8.9	9.1
	Flow (GPM)	36.1	36.9	37.7	38.5	39.3	40.1	40.9	41.8	42.7	43.5	44.4
PD (Hd. Ft.)	6.7	7.0	7.3	7.6	7.9	8.2	8.5	8.8	9.2	9.5	9.9	

EER IPLV	14.61	Kw/Ton IPLV	0.82	COP IPLV	4.28
EER at 100%	9.94	kW/ton at 100%	1.21	COP at 100%	2.91
EER at 75%	13.47	kW/ton at 75%	0.89	COP at 75%	3.95
EER at 50%	15.32	kW/ton at 50%	0.78	COP at 50%	4.49
EER at 25%	16.36	kW/ton at 25%	0.73	COP at 25%	4.79

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.

