

Air - cooled module

VX010DZV (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	10.4	10.6	10.8	11.0	11.2	11.5	11.7	11.9	12.2	12.4	12.6
	Btuh	124,695	127,206	129,755	132,345	134,974	137,645	140,358	143,113	145,911	148,753	151,639
	W	8,375	8,360	8,345	8,329	8,313	8,297	8,280	8,263	8,246	8,229	8,211
	EER	14.9	15.2	15.5	15.9	16.2	16.6	17.0	17.3	17.7	18.1	18.5
	Flow (GPM)	24.9	25.4	26.0	26.5	27.0	27.5	28.1	28.6	29.2	29.8	30.3
PD (Hd. Ft.)	7.6	7.8	8.1	8.4	8.7	9.0	9.3	9.6	9.9	10.3	10.6	
70	Tons	10.1	10.3	10.5	10.7	10.9	11.2	11.4	11.6	11.8	12.1	12.3
	Btuh	121,282	123,746	126,247	128,786	131,363	133,981	136,638	139,337	142,077	144,860	147,686
	W	8,818	8,801	8,784	8,766	8,748	8,730	8,711	8,693	8,673	8,654	8,634
	EER	13.8	14.1	14.4	14.7	15.0	15.3	15.7	16.0	16.4	16.7	17.1
	Flow (GPM)	24.3	24.7	25.2	25.8	26.3	26.8	27.3	27.9	28.4	29.0	29.5
PD (Hd. Ft.)	7.2	7.5	7.7	8.0	8.3	8.6	8.9	9.2	9.5	9.8	10.1	
75	Tons	9.8	10.0	10.2	10.4	10.6	10.8	11.1	11.3	11.5	11.7	12.0
	Btuh	117,662	120,076	122,526	125,013	127,537	130,100	132,701	135,341	138,022	140,743	143,506
	W	9,283	9,264	9,245	9,226	9,206	9,186	9,166	9,145	9,124	9,102	9,080
	EER	12.7	13.0	13.3	13.6	13.9	14.2	14.5	14.8	15.1	15.5	15.8
	Flow (GPM)	23.5	24.0	24.5	25.0	25.5	26.0	26.5	27.1	27.6	28.1	28.7
PD (Hd. Ft.)	6.8	7.1	7.3	7.6	7.9	8.1	8.4	8.7	9.0	9.3	9.6	
80	Tons	9.5	9.7	9.9	10.1	10.3	10.5	10.7	10.9	11.1	11.4	11.6
	Btuh	113,827	116,190	118,588	121,021	123,490	125,995	128,537	131,118	133,737	136,395	139,093
	W	9,773	9,753	9,732	9,711	9,690	9,668	9,646	9,623	9,600	9,577	9,553
	EER	11.6	11.9	12.2	12.5	12.7	13.0	13.3	13.6	13.9	14.2	14.6
	Flow (GPM)	22.8	23.2	23.7	24.2	24.7	25.2	25.7	26.2	26.7	27.3	27.8
PD (Hd. Ft.)	6.5	6.7	6.9	7.2	7.4	7.7	8.0	8.2	8.5	8.8	9.1	
85	Tons	9.1	9.3	9.5	9.7	9.9	10.1	10.3	10.6	10.8	11.0	11.2
	Btuh	109,770	112,081	114,425	116,802	119,214	121,660	124,142	126,661	129,217	131,810	134,442
	W	10,293	10,271	10,249	10,227	10,204	10,180	10,156	10,132	10,107	10,082	10,057
	EER	10.7	10.9	11.2	11.4	11.7	12.0	12.2	12.5	12.8	13.1	13.4
	Flow (GPM)	22.0	22.4	22.9	23.4	23.8	24.3	24.8	25.3	25.8	26.4	26.9
PD (Hd. Ft.)	6.1	6.3	6.5	6.8	7.0	7.2	7.5	7.8	8.0	8.3	8.6	
90	Tons	8.8	9.0	9.2	9.4	9.6	9.8	10.0	10.2	10.4	10.6	10.8
	Btuh	105,487	107,743	110,031	112,350	114,703	117,089	119,509	121,964	124,455	126,982	129,546
	W	10,846	10,823	10,799	10,775	10,751	10,726	10,700	10,674	10,648	10,621	10,594
	EER	9.7	10.0	10.2	10.4	10.7	10.9	11.2	11.4	11.7	12.0	12.2
	Flow (GPM)	21.1	21.5	22.0	22.5	22.9	23.4	23.9	24.4	24.9	25.4	25.9
PD (Hd. Ft.)	5.7	5.9	6.1	6.3	6.5	6.8	7.0	7.3	7.5	7.8	8.1	
95	Tons	8.4	8.6	8.8	9.0	9.2	9.4	9.6	9.8	10.0	10.2	10.4
	Btuh	100,969	103,169	105,399	107,660	109,951	112,275	114,631	117,021	119,444	121,903	124,397
	W	11,435	11,411	11,386	11,360	11,334	11,308	11,281	11,254	11,226	11,197	11,168
	EER	8.8	9.0	9.3	9.5	9.7	9.9	10.2	10.4	10.6	10.9	11.1
	Flow (GPM)	20.2	20.6	21.1	21.5	22.0	22.5	22.9	23.4	23.9	24.4	24.9
PD (Hd. Ft.)	5.3	5.5	5.7	5.9	6.1	6.3	6.5	6.8	7.0	7.3	7.5	
100	Tons	8.0	8.2	8.4	8.6	8.7	8.9	9.1	9.3	9.5	9.7	9.9
	Btuh	96,211	98,353	100,524	102,723	104,952	107,211	109,502	111,824	114,179	116,568	118,990
	W	12,064	12,038	12,012	11,986	11,958	11,931	11,903	11,874	11,844	11,814	11,784
	EER	8.0	8.2	8.4	8.6	8.8	9.0	9.2	9.4	9.6	9.9	10.1
	Flow (GPM)	19.2	19.7	20.1	20.5	21.0	21.4	21.9	22.4	22.8	23.3	23.8
PD (Hd. Ft.)	4.8	5.0	5.2	5.4	5.6	5.8	6.0	6.3	6.5	6.7	7.0	
105	Tons	7.6	7.8	7.9	8.1	8.3	8.5	8.7	8.9	9.1	9.2	9.4
	Btuh	91,207	93,289	95,397	97,534	99,698	101,892	104,115	106,368	108,653	110,969	113,317
	W	12,736	12,710	12,682	12,655	12,626	12,597	12,568	12,538	12,507	12,476	12,444
	EER	7.2	7.3	7.5	7.7	7.9	8.1	8.3	8.5	8.7	8.9	9.1
	Flow (GPM)	18.2	18.7	19.1	19.5	19.9	20.4	20.8	21.3	21.7	22.2	22.7
PD (Hd. Ft.)	4.4	4.6	4.8	4.9	5.1	5.3	5.5	5.7	6.0	6.2	6.4	

EER IPLV	13.30	Kw/Ton	IPLV	0.90	COP IPLV	3.90
EER at 100%	9.70	kW/ton at 100%		1.24	COP at 100%	2.84
EER at 75%	12.35	kW/ton at 75%		0.97	COP at 75%	3.62
EER at 50%	13.81	kW/ton at 50%		0.87	COP at 50%	4.05
EER at 25%	15.04	kW/ton at 25%		0.80	COP at 25%	4.41

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.

