

Mbsm.pro, Cubigel Compressors Specifications

written by Lilianne | 6 December 2024

Artikelnr.	Typ	Leistung (PS)	Kälteleistung [W] T_0 -25 °C, T_1 +45 °C	
			-25	
47-32 HQY45AA	HQY 45 AA	1/12	52	
47-32 HQY55AA	HQY 55 AA	1/9	62	
47-32 HQY70AA	HQY 70 AA	1/8	80	
47-32 HQY80AA	HQY 80 AA	1/7	99	
47-32 HQY90AA	HQY 90 AA	1/7	109	
47-32 HQY99AA	HQY 99 AA	1/6	119	
47-32 HPY12AA	HPY 12 AA	1/5	144	
47-32 HPY14AA	HPY 14 AA	1/5	166	
47-32 HPY16AA	HPY 16 AA	1/4	181	

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table with the specifications for the Cubigel compressors:

Cubigel Compressors Specifications

Model	Power (HP)	Cooling Capacity (W) at $T_1 = -25^\circ\text{C}$, $T_2 = +45^\circ\text{C}$
HQY45AA	1/12	52
HQY55AA	1/9	62
HQY70AA	1/8	80
HQY80AA	1/7	99
HQY90AA	1/7	109
HQY99AA	1/6	119
HPY12AA	1/5	144
HPY14AA	1/5	166
HPY16AA	1/4	181

Key Features

- **Type:** Hermetic compressor for capillary tube operation
- **Temperature Range:** LBP (-30 °C to -10 °C)

- Voltage: 220 – 240 V / 50 Hz
- Refrigerant: R-600a

Mbsm.pro, D2sc-55X-EwL, 5.5HP, Copeland, Semi- Hermetic, Compressor

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Copeland compressor can be used for low/medium and high temperature. These compressors are from Copeland China factory.

DWM Copeland™ Compressors are suitable
For a wide range of applications either in the form of single

compressors, condensing units or as multi-compressor equipment

Cooling Capacity at Standard Condition 2.67kWR404A,
 Evaporating -35° C, Condensing 40° C, Suction Gas Return 20°
 C, Sub cooling 0K

Mechanical Data

Number of cylinders 2.0 Displacement @ 50 Hz, cu. M/h 18.2
 Bore/Stroke, mm 60.4/36.5 Length/Width, mm 470/330
 Height, mm 385.0 Net Weight, kg 87.0
 Gross Weight, kg 93.0 Suction, inch 1 1/8
 Discharge, inch 5/8 Oil Quantity, l 2.0
 Frequency Range, Hz 25 – 60 Base mounting (hole dia), mm 295 x
 279 (14.0)
 Sound Pressure @ 1m, dBA 63.1 Sound Power, dBA 74.1
 High Side PS, bar(g) 28.0 Low Side PS, bar(g) 22.5

Electrical Data

Maximum Operating Current, A 9.5 Locked Rotor Current, A 68.5
 Default Enclosure Class IP 54 (IEC 34)

Accessories

Mounting Springs 4
 Additional Cooling 1 or 2 ways water Coil
 Crankcase Heater 70W Internal
 Additional Cooling 70W Vertical Air Flow Fan
 Additional Cooling 25W Horizontal Air Flow Fan
 Adapter Kit For Parallel Operation
 Inverter Control Techniques SKB 3400750

odel	nom HP	Displace m3/hr	Evaporating temperature (Capctiy R404A/R507)									Electrical amp s/ph		
			-35	-30	-25	-20	-15	-10	-5	0	5	rla*	mcc*	l. r. a
DKSJ-15X-EWL	1.5	6.3	937	1260	1635	2075	2595	3200	3905			3.2	3.5	20.4
DLE-20X-EWL	2	9.9	871	1430	20700	2810	3665	4655	5805	7130	8655	4.6	5.7	37.6
DLJ-30X-EWL	3	14.5	1770	2540	3425	4460	5665	7070	8705	10590	12760	6.7	8.07	53
DLL-40X-EWL	4	18.1	2273	3330	4558	5996	7670	9615	11870	14460	17460	7.9	9.5	68.5
DLSG-40X-EWL	4	22.5	2980	4175	5625	7300						7.4	8.9	53.4
D2SC-65X-EWL	6.5	26.9		5100	6750	8700	10900	13500	16400	19800	23700	12.7	16.2	85.3
D3SA-75X-AWM	7.5	32.2		5600	7650	10500	12850	16100	19800	24100	28900	14.2	17.9	82
D3SC-100X-AWM	10	38		7150	9500	12250	15500	19300	23800	29000	35000	16.8	21.6	106

D3SS-150X-AWM	15	49.9		10350	13550	17200	21400	26300	32000	38500	46000	23.2	30.2	125
D4SA-200X-AWM	20	56		10650	14250	18400	23200	28800	35000	42500	51000	24.2	30.5	160
D4SH-250X-AWM	25	70.8		13300	17600	22600	28300	3500	42500	51500	62000	31.1	40.1	192
D4SJ-300X-AWM	30	84.7		15800*	21200	27400	34500	43000	52500	64000	76500	36.2	47.7	218
D6SH-350X-AWM	35	106		19600*	26000	33500	42000	52000	63500	76500	92000	49.6	62.4	284
D6SJ-400X-AWM	40	127		23100*	30500	39000	49000	60500	74000	89000	1E+05	55.2	71.8	347
D6SK-500X-AWM	50	151.8		27200*	36500	47000	59500	73500	90500	109500	1E+05	71	94.7	415
D8SJ600XB-1	60	181		33000	44000	56500	71500	88500	1E+05	13500	15800	84	107	544
DKL20X-EWL	2	7.4	940	1330	1790	2330	2950	3700	4500			2.6	3.83	20.4
DKSL20X-EWL	2	9.1	1390	1860	2410	3060	3820	4700	5700			3.2	4.7	20.4
DLL30X-EWL	3	18.2	2268	3293	4503	5918						5.5	7.3	53
D2SA-45X-EWL	4.5	22.4	3160*	4300	56500	7250	9100	11250	13700			7.4	11.4	68.5
D3SA-75X-AWM	7.5	32.2		5600	7650	10050	12850	16100	19800	24100	28900	10.5	17.9	82
D3SC-75X-AWM	7.5	38	5013*	6800	9000	11700	14850	18600	22900			12.4	18.7	82
D3SS-100X-AWM	10	49.9		9950	12900	16300	20300	24900	30500			16.3	26	109
D4SF-100X-AWM	10	56		11250	14600	18500	23200	28700	35000			16.9	27.1	105
D4SL-150X-AWM	15	70.8		14700	18900	23900	29700	36500	44000			21.7	35.6	156
D4ST-200X-AWM	20	84.7		17200	22400	28500	35500	44000	53500			24.2	42.4	175
D6SL-250X-AWM	25	106		21400	27700	35000	43500	53000	64000			31.4	56.5	199
D6ST-320X-AWM	32	127		25000	32000	40500	50500	62000	75000			39.2	62.9	255
D6SU-400X-AWM	40	151.8		29600	38500	49000	61500	75500	92000			47.3	78	304
D8SJ-450X-BWM	45	181		35500	46500	59000	74000	91000	1E+05			53.3	90.8	458

D2SC - 55XDownload

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SERIE R600a

Model	Power Source [V/Hz]	Displacement [cc/rev]	Capacity / Evaporating Temperature - ASHRAE														Motor type	
			Check Point -23.3°C		Check Point +7.2°C		-30°C	-25°C	-20°C	-15°C	-10°C	-5°C	0°C	+5°C	+10°C	+15°C		
			CAP [W]	COP [W/W]	CAP [W]	COP [W/W]	CAP [W]	CAP [W]	CAP [W]	CAP [W]	CAP [W]	CAP [W]	CAP [W]	CAP [W]	CAP [W]	CAP [W]		
EMT 23CLP	220-240/50	4.50	77	1.22	-	-	53	70	90	114	143	-	-	-	-	-	-	RSIR
EMI 40CNP 50-60Hz	220-240/50	6.36	100	1.14	-	-	67	90	118	152	194	244	-	-	-	-	-	RSIR
	230/60		119	1.16	-	-	88	115	145	181	227	284	-	-	-	-	-	RSIR
EM2C 46CLT	220-240/50	7.96	137	1.73	-	-	93	124	162	208	263	-	-	-	-	-	-	RSCR
EMT 56CLP	220-240/50	9.04	157	1.33	-	-	106	143	187	239	300	-	-	-	-	-	-	RSIR/RSCR
EMYE 70CLP 50-60Hz	220-240/50	10.61	200	1.34	-	-	128	171	250	285	350	-	-	-	-	-	-	RSIR
	230/60		238	1.39	-	-	169	219	308	340	409	-	-	-	-	-	-	RSIR
EGYS 110CLC	220-240/50	14.77	263	1.83	-	-	187	241	307	387	486	-	-	-	-	-	-	RSCR
EMT 45CDP	220-240/50	6.78	-	-	397	2.71	-	-	-	152	192	239	296	361	-	-	-	RSIR
EMT 6144Y	220-240/50	9.04	-	-	539	2.48	-	-	-	216	273	337	410	494	-	-	-	CSIR
EMT 6160Y	220-240/50	11.14	-	-	654	2.27	-	-	-	262	329	408	498	600	-	-	-	CSIR

Rated Test Conditions:

Condensing Temperature	54.4°C
Liquid Temperature	32.2°C
Suction Temperature	32.2°C
Ambient Temperature	32.2°C

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INVERTER COMPRESSOR R290

Model	Power Source [V/Hz]	Displacement [cc/rev]	Capacity / Evaporating Temperature - ASHRAE														Frequency range [rpm]
			Check Point -23.3°C		Check Point +7.2°C		-30°C	-25°C	-20°C	-15°C	-10°C	-5°C	0°C	+5°C	+10°C	+15°C	
			CAP [W]	COP [W/W]	CAP [W]	COP [W/W]	CAP [W]	CAP [W]	CAP [W]	CAP [W]	CAP [W]	CAP [W]	CAP [W]	CAP [W]	CAP [W]	CAP [W]	
FMFT 406U	220-240/46-150	6.44	140	1.74	-	-	99	129	165	207	256	313	378	-	-	-	25
			510	1.81	-	-	363	467	586	718	865	1,025	1,198	-	-	-	75
FMFT 411U	220-240/60-150	11.14	287	1.77	-	-	211	266	329	401	485	582	676	-	-	-	25
			861	1.75	-	-	634	798	986	1,203	1,455	1,747	2,028	-	-	-	75
FMFT 413U	220-240/60-150	12.92	403	1.76	-	-	287	369	467	585	727	896	1,094	-	-	-	30
			998	1.74	-	-	726	922	1,141	1,381	1,644	1,931	2,242	-	-	-	75
FMFT 415U	220-240/50-170	14.77	469	1.81	-	-	333	420	518	632	765	920	1,101	-	-	-	25
			1,251	1.66	-	-	924	1,174	1,451	1,755	2,089	2,453	2,847	-	-	-	80

Rated Test Conditions:

Condensing Temperature	54.4°C
Liquid Temperature	32.2°C
Suction Temperature	32.2°C
Ambient Temperature	32.2°C

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VEM INVERTER SERIES - R134a/R513A

Model	Power Source [V/Hz]	Displacement [cc/rev]	Capacity / Evaporating Temperature - ASHRAE														Frequency range [rpm]
			Check Point -23.3°C		Check Point +7.2°C		-30°C	-25°C	-20°C	-15°C	-10°C	-5°C	0°C	+5°C	+10°C	+15°C	
			CAP [W]	COP [W/W]	CAP [W]	COP [W/W]	CAP [W]	CAP [W]	CAP [W]	CAP [W]	CAP [W]	CAP [W]	CAP [W]	CAP [W]	CAP [W]	CAP [W]	
VEMY 6HH	220-240/53-150	5.72	97	1.65	-	-	61	86	118	156	202	255	-	-	-	-	25
			230	1.62	-	-	153	208	273	348	433	528	-	-	-	-	75

Rated Test Conditions:
 Condensing Temperature 54.4°C
 Liquid Temperature 32.2°C
 Suction Temperature 32.2°C
 Ambient Temperature 32.2°C

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Mbsm.pro, Compressor, D110C21RAZ5, 1/3 hp, 298 w, 11 cc, 256 kcal, 1017 btu, 1bp, r134a, 1ph/220/50hz

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Mbsm.pro, Compressor, D110C21RAZ5, 1/3 hp, 298 w, 11 cc, 256 kcal, 1017 btu, 1bp, r134a, 1ph/220/50hz

**Mbsm.pro, SECOP,
DLE4CNT,compressor, 102H4460,
4cm3, r290, 1hp/220v, Lbp
freezing (1/4 hp 193w -23.3°C
/ 54.4°C), mhbp semi-freezing
(3/8 hp 341w -6.7°C /
54.4°C), HBp Cooling (5/8 hp
516w 7.2°C/54.4°C)**

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Mbsm.pro, SECOP, DLE4CNT,compressor, 102H4460, 4cm3, r290,
1hp/220v, Lbp freezing (1/4 hp 193w -23.3°C / 54.4°C), mhbp
semi-freezing (3/8 hp 341w -6.7°C / 54.4°C), HBp Cooling (5/8
516w 7.2°C/54.4°C)

**Mbsm.pro, Compressor,
Embraco, EGYS110CLC, 1/3 hp,
Lbp, r600a, 263 w, 1.1a**

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Mbsm.pro, Compressor, Embraco, EGYS110CLC, 1/3 hp, 1bp, r600a, 263 w, 1.1a