



Minimum Evaporating Temp. With:

- 20 K Suction Superheat
- 20 °C Suction Gas Return
- 0 °C Suction Gas Return
- Maximum Evaporating Temperature

Suction Return Temperature 20.0°C

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Additional restrictions, please see application guidelines

50 Hz

6MJD-45X

R513A

Cond °C	Cooling Capacity, kW												
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0
16.0	30.30												
20.0	28.90	36.70											
25.0	27.10	34.60	43.90	55.20									
30.0	25.30	32.50	41.30	52.10	65.00	80.20							
35.0	23.60	30.40	38.70	48.90	61.00	75.30	91.90	99.30	111.00	122.00			
40.0	21.80	28.20	36.10	45.60	57.00	70.30	85.90	92.80	104.00	114.00	124.50		
45.0	19.95	26.10	33.50	42.30	52.90	65.30	79.80	86.20	96.60	106.00	116.00		
50.0	18.15	23.90	30.80	39.00	48.80	60.30	73.70	79.60	89.10	97.70	107.00		
55.0		21.70	28.10	35.60	44.60	55.20	67.40	72.90	81.60	89.50	97.90		
60.0		19.40	25.30	32.20	40.40	50.00	61.10	66.10	74.00	81.20	88.80		
65.0			22.50	28.80	36.20	44.80	54.80	59.20	66.40	72.80	79.60		
70.0			19.70	25.30	31.90	39.50	48.40	52.30	58.70	64.30	70.40		
75.0				21.80	27.50	34.20	41.90	45.40	50.90	55.80	61.20		
80.0				18.15	23.10	28.80	35.40	38.30	43.10	47.30	51.80		
85.0					18.60	23.40	28.80	31.30	35.20	38.70	42.40		

Cond °C	Power, kW												
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0
16.0	10.30												
20.0	10.80	11.75											
25.0	11.35	12.45	13.45	14.25									
30.0	11.75	13.10	14.30	15.35	16.20	16.80							
35.0	12.10	13.65	15.05	16.35	17.45	18.35	18.95	19.10	19.25	19.30			
40.0	12.35	14.05	15.70	17.20	18.60	19.75	20.70	21.00	21.30	21.50	21.60		
45.0	12.50	14.40	16.25	18.00	19.60	21.10	22.30	22.70	23.30	23.60	23.90		
50.0	12.55	14.65	16.70	18.65	20.50	22.30	23.80	24.30	25.10	25.60	26.10		
55.0		14.75	17.00	19.20	21.30	23.30	25.20	25.90	26.80	27.50	28.20		
60.0		14.80	17.25	19.65	22.00	24.30	26.40	27.20	28.40	29.30	30.10		
65.0			17.35	20.00	22.60	25.20	27.60	28.50	29.90	30.90	31.90		
70.0			17.40	20.30	23.10	25.90	28.60	29.70	31.20	32.40	33.60		
75.0				20.40	23.50	26.50	29.50	30.70	32.40	33.80	35.20		
80.0				20.40	23.70	27.00	30.30	31.60	33.50	35.10	36.60		
85.0					23.90	27.40	31.00	32.40	34.50	36.20	37.90		

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50 Hz

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Cond °C	Current at 400 V, A												
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0
16.0	28.75												
20.0	29.18	30.05											
25.0	29.67	30.73	31.74	32.60									
30.0	30.09	31.35	32.60	33.75	34.72	35.41							
35.0	30.44	31.89	33.38	34.82	36.12	37.20	37.97	38.17	38.34	38.35			
40.0	30.70	32.35	34.09	35.81	37.45	38.90	40.09	40.48	40.93	41.20	41.34		
45.0	30.88	32.72	34.70	36.71	38.68	40.52	42.13	42.70	43.44	43.96	44.36		
50.0	30.95	32.99	35.21	37.51	39.82	42.03	44.07	44.82	45.85	46.62	47.29		
55.0		33.15	35.62	38.21	40.84	43.44	45.91	46.84	48.16	49.18	50.11		
60.0		33.20	35.90	38.78	41.75	44.73	47.62	48.74	50.35	51.62	52.82		
65.0			36.06	39.23	42.54	45.89	49.21	50.51	52.41	53.93	55.40		
70.0			36.08	39.54	43.18	46.92	50.67	52.15	54.34	56.12	57.84		
75.0				39.71	43.69	47.81	51.98	53.65	56.12	58.16	60.15		
80.0				39.72	44.03	48.54	53.14	54.99	57.76	60.04	62.30		
85.0					44.22	49.11	54.14	56.17	59.23	61.77	64.29		

Cond °C	Suction Mass Flow, g/s												
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0
16.0	168.50												
20.0	165.50	211.00											
25.0	162.00	207.00	264.00	333.00									
30.0	158.50	204.00	260.00	328.00	411.00	510.00							
35.0	154.50	199.50	255.00	323.00	405.00	503.00	617.00	669.00	752.00	828.00			
40.0	150.00	195.00	251.00	318.00	398.00	495.00	608.00	659.00	741.00	815.00	896.00		
45.0	145.50	190.50	245.00	312.00	391.00	486.00	598.00	648.00	729.00	802.00	882.00		
50.0	140.50	185.50	240.00	305.00	384.00	477.00	587.00	636.00	716.00	788.00	867.00		
55.0		179.50	234.00	298.00	375.00	467.00	575.00	623.00	702.00	773.00	851.00		
60.0		173.00	227.00	290.00	366.00	456.00	562.00	610.00	687.00	757.00	833.00		
65.0			219.00	282.00	356.00	444.00	548.00	595.00	671.00	740.00	815.00		
70.0			210.00	272.00	345.00	431.00	533.00	579.00	653.00	722.00	795.00		
75.0				261.00	332.00	417.00	517.00	562.00	635.00	702.00	775.00		
80.0				249.00	319.00	402.00	501.00	545.00	618.00	684.00	757.00		
85.0					306.00	389.00	488.00	532.00	605.00	672.00	746.00		

Additional restrictions, please see application guidelines

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	6
Displacement @ 50 Hz, m³/h	135
Bore/Stroke, mm	75.7/57.5
Length/Width, mm	725/547
Height, mm	450
Net Weight, kg	229
Suction, inch	2 1/8
Discharge, inch	1 5/8
Oil Quantity, l	3.3
Oil type (original charge)	POE RL32-3MAF
Oil type (approved oils)	POE RL32-3MAF, POE MOBIL EAL Arctic 22 CC
Base mounting (hole dia), mm	381 x 305 (18)
Sound Pressure @ 1m (MT), dBA	72
Sound Power (MT), dBA	83
Sound Power with Sound Shell (MT), dBA	68
Sound Conditions (MT, Temperatures: Evap./Cond./Suction at freq./speed)	-10 / 45 / 20 °C at 50 Hz
High Side PS gauge, bar	32.5
Low Side PS gauge, bar	22.5
Digital Modulation	33-100%
Refrigerant's GWP	631
Refrigerant's classification	A1

COMPRESSOR ELECTRICAL DATA (380-420 V / 3~ / 50 Hz)

Maximum Operating Current, A	81.5
Locked Rotor Current, A	304
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

Mounting Parts	Spring
CoreSense Protection (-P)	Motor protection
Oil Pressure Switch (-P)	OPS2 Sensor
Copeland Compressor Electronic (-N)	Oil pressure, motor and discharge line temperature protection; advanced diagnostics features and power measurement

Additional restrictions, please see application guidelines

ACCESSORIES OPTIONAL

Check Valve	For unloaded start operation
Mounting Parts	Rubber
Digital Modulation	33-66%
Crankcase Heater	100 W Internal
Sound Attenuation	Sound Shell
Additional Cooling	70 W Vertical Air Flow Fan
Oil Pressure Switch	OPS2 Electronic Switch
Adapter Kit	For Parallel Operation
Digital Driver	EC3-D23
Copeland Compressor Electronic module	Modbus extension module

MOTOR OPTIONS

Motor Code	Power Supply	Nominal Voltage, V	Start Connection	DOL Connection	Amps Factor
AWM	380-420 V / 3~ / 50 Hz	400	YY/Y	Y	1.00
EWL	220-240 V / 3~ / 50 Hz	230	Y/DELTA	DELTA	1.73
EWL	380-420 V / 3~ / 50 Hz	400		Y	1.00
EWM	380-420 V / 3~ / 50 Hz	400	Y/DELTA	DELTA	1.00
AWR	220-240 V / 3~ / 50 Hz	230	YY/Y	Y	1.73
AWY	500-550 V / 3~ / 50 Hz	525	YY/Y	Y	0.76
EWK	220-240 V / 3~ / 60 Hz	230	Y/DELTA	DELTA	2.10
EWK	380-420 V / 3~ / 60 Hz	380		Y	1.20
EWD	440-480 V / 3~ / 60 Hz	460	Y/DELTA	DELTA	1.00
AWC	208-230 V / 3~ / 60 Hz	230	YY/Y	Y	2.19
AWX	380 V / 3~ / 60 Hz	380	YY/Y	Y	1.20
AWD	440-480 V / 3~ / 60 Hz	460	YY/Y	Y	1.00

Additional restrictions, please see application guidelines