



Minimum Evaporating Temp. With:

- 20 °C Suction Gas Return
- Maximum Evaporating Temperature

Suction Return Temperature 20.0°C

Liquid Subcooling 0.0K

Evaporating Temperature, °C

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
10.0	50.50	63.60	79.50	98.60	121.00					
15.0	48.00	60.70	76.00	94.30	116.00	141.00				
20.0	45.50	57.70	72.40	89.90	110.50	134.50	162.00			
25.0	42.90	54.60	68.60	85.30	105.00	127.50	154.00	165.50	184.00	201.00
30.0	40.30	51.50	64.80	80.50	99.00	120.50	145.50	156.50	174.50	190.00
35.0	37.60	48.20	60.80	75.60	93.10	113.50	137.00	147.50	164.00	179.00
40.0		45.00	56.80	70.70	87.00	106.00	128.00	138.00	153.50	167.50
45.0			52.70	65.60	80.80	98.50	119.00	128.50	143.00	156.00
50.0			48.50	60.40	74.50	90.90	110.00	118.50	132.00	144.50
55.0				55.20	68.00	83.10	100.50	108.50	121.00	132.50
60.0				50.00	61.60	75.20	91.20			
62.0					59.00	72.00				

50 Hz

6MJD-45X 100% Loaded

R407A Dew Point

Cond °C	Power, kW									
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
10.0	13.70	14.40	14.85	14.90	14.50					
15.0	14.80	15.85	16.60	17.00	17.00	16.55				
20.0	15.85	17.15	18.25	19.00	19.40	19.40	18.85			
25.0	16.75	18.40	19.80	20.90	21.70	22.10	22.00	21.90	21.50	21.00
30.0	17.60	19.50	21.20	22.70	23.90	24.70	25.10	25.10	25.00	24.80
35.0	18.30	20.50	22.60	24.50	26.00	27.30	28.10	28.30	28.50	28.50
40.0		21.50	23.90	26.10	28.00	29.70	31.00	31.40	31.90	32.10
45.0			25.10	27.60	30.00	32.10	33.80	34.40	35.20	35.70
50.0			26.20	29.10	31.90	34.40	36.60	37.30	38.40	39.20
55.0				30.50	33.70	36.60	39.20	40.20	41.60	42.60
60.0				31.90	35.40	38.70	41.80			
62.0					36.10	39.60				

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
10.0	32.45	33.04	33.39	33.40	32.95					
15.0	33.33	34.29	35.06	35.52	35.55	35.02				
20.0	34.25	35.61	36.82	37.74	38.27	38.28	37.66			
25.0	35.18	36.96	38.62	40.03	41.08	41.66	41.63	41.42	40.88	40.20
30.0	36.09	38.31	40.43	42.36	43.95	45.11	45.70	45.75	45.60	45.26
35.0	36.94	39.61	42.23	44.69	46.85	48.60	49.83	50.14	50.40	50.41
40.0		40.85	43.98	46.99	49.73	52.11	53.99	54.57	55.26	55.62
45.0			45.65	49.22	52.57	55.59	58.15	59.01	60.13	60.86
50.0			47.20	51.36	55.34	59.01	62.27	63.43	64.98	66.10
55.0				53.37	57.99	62.35	66.32	67.78	69.79	71.29
60.0				55.22	60.51	65.57	70.27			
62.0					61.47	66.81				

50 Hz

6MJD-45X 100% Loaded

R407A Dew Point

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
10.0	237.00	300.00	376.00	469.00	579.00					
15.0	233.00	296.00	373.00	465.00	574.00	704.00				
20.0	229.00	292.00	368.00	459.00	568.00	697.00	849.00			
25.0	225.00	287.00	363.00	453.00	561.00	689.00	840.00	907.00	1017.00	1117.00
30.0	220.00	282.00	357.00	447.00	553.00	680.00	829.00	896.00	1005.00	1104.00
35.0	215.00	276.00	350.00	439.00	544.00	669.00	817.00	883.00	991.00	1090.00
40.0		270.00	343.00	430.00	534.00	657.00	803.00	868.00	976.00	1074.00
45.0			335.00	420.00	522.00	643.00	787.00	852.00	959.00	1056.00
50.0			327.00	410.00	510.00	628.00	771.00	835.00	940.00	1037.00
55.0				399.00	496.00	613.00	752.00	816.00	920.00	1016.00
60.0				387.00	482.00	596.00	733.00			
62.0					476.00	589.00				

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	75
Sound Power (MT), dBA	86
Sound Power with Sound Shell (MT), dBA	74
Sound Conditions (MT, Temperatures: Evap./Cond./Suction at freq./speed)	-10 / 45 / 20 °C at 50 Hz
Sound Pressure @ 1m (HT), dBA	75
Sound Power (HT), dBA	86
Sound Power with Sound Shell (HT), dBA	74
Sound Conditions (HT, Temperatures: Evap./Cond./Suction at freq./speed)	5 / 55 / 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	2107
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

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

<i>Motor Code</i>	<i>Power Supply</i>	<i>Nominal Voltage, V</i>	<i>Start Connection</i>	<i>DOL Connection</i>	<i>Amps Factor</i>
AWM	380-420 V / 3~ / 50 Hz	400	YYY	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	YYY	Y	1.73
AWY	500-550 V / 3~ / 50 Hz	525	YYY	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	YYY	Y	2.19
AWX	380 V / 3~ / 60 Hz	380	YYY	Y	1.20
AWD	440-480 V / 3~ / 60 Hz	460	YYY	Y	1.00