



Minimum Evaporating Temp. With:

- 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

Cond °C	Cooling Capacity, kW								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	52.60	66.50	83.50	104.00	127.50				
15.0	50.00	63.50	79.80	99.20	122.00				
20.0	47.40	60.30	75.90	94.40	116.00	141.50			
25.0	44.70	57.10	72.00	89.60	110.00	134.50	162.00	174.50	
30.0		53.90	68.00	84.60	104.00	127.00	153.00	165.00	183.50
35.0		50.70	63.90	79.60	97.90	119.50	144.00	155.00	172.50
40.0			59.90	74.50	91.60	111.50	135.00	145.00	161.50
45.0			55.90	69.40	85.30	104.00	125.50	135.00	150.50
50.0				64.40	79.00	96.10	116.00	125.00	139.00
55.0					72.70	88.30	106.50	114.50	128.00
60.0					66.40	80.50	97.00	104.50	

50 Hz

6MJD-45X 100% Loaded

R407F Dew Point

Cond °C	Power, kW								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	14.10	14.85	15.30	15.35	14.90				
15.0	15.35	16.40	17.20	17.65	17.60				
20.0	16.50	17.85	19.00	19.80	20.20	20.10			
25.0	17.60	19.25	20.70	21.90	22.70	23.10	23.00	22.70	
30.0		20.50	22.30	23.90	25.10	26.00	26.30	26.30	26.10
35.0		21.70	23.90	25.80	27.50	28.70	29.60	29.80	29.90
40.0			25.30	27.60	29.70	31.40	32.80	33.20	33.60
45.0			26.70	29.30	31.80	34.00	35.80	36.40	37.20
50.0				31.00	33.80	36.50	38.80	39.60	40.70
55.0					35.80	38.90	41.70	42.70	44.10
60.0					37.70	41.20	44.50	45.70	

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
10.0	32.31	33.17	33.70	33.75	33.19				
15.0	33.68	34.88	35.82	36.35	36.32				
20.0	35.01	36.58	37.94	38.96	39.48	39.36			
25.0	36.28	38.24	40.04	41.56	42.64	43.15	42.95	42.64	
30.0		39.84	42.10	44.14	45.80	46.95	47.45	47.44	47.16
35.0		41.37	44.11	46.68	48.94	50.75	51.97	52.26	52.45
40.0			46.04	49.17	52.04	54.53	56.48	57.08	57.76
45.0			47.89	51.58	55.09	58.26	60.97	61.88	63.06
50.0				53.91	58.07	61.95	65.42	66.66	68.34
55.0					60.96	65.56	69.82	71.39	73.58
60.0					63.74	69.09	74.15	76.06	

50 Hz

6MJD-45X 100% Loaded

R407F 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
10.0	224.00	285.00	359.00	449.00	556.00				
15.0	220.00	281.00	354.00	443.00	550.00				
20.0	216.00	276.00	349.00	437.00	542.00	667.00			
25.0	211.00	271.00	343.00	430.00	534.00	656.00	801.00	867.00	
30.0		265.00	337.00	422.00	524.00	645.00	788.00	852.00	957.00
35.0		260.00	330.00	414.00	514.00	632.00	773.00	837.00	940.00
40.0			323.00	405.00	502.00	619.00	757.00	820.00	922.00
45.0			316.00	395.00	491.00	604.00	740.00	802.00	902.00
50.0				386.00	478.00	589.00	722.00	782.00	881.00
55.0					466.00	574.00	703.00	762.00	859.00
60.0					454.00	558.00	684.00	742.00	

### 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	74
Sound Power (MT), dBA	85
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	1825
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

<b>Motor Code</b>	<b>Power Supply</b>	<b>Nominal Voltage, V</b>	<b>Start Connection</b>	<b>DOL Connection</b>	<b>Amps Factor</b>
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