



Minimum Evaporating Temp. With:	
<span style="color: magenta;">—</span> 20 °C Suction Gas Return	<span style="color: yellow;">—</span> 20 °C Suction Gas Return with add cooling
<span style="color: darkred;">—</span> 0 °C Suction Gas Return	<span style="color: lightcoral;">—</span> 0 °C Suction Gas Return with add cooling
<span style="color: blue;">—</span> Maximum Evaporating Temperature	

Suction Superheat 10.0K

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW											
	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0
10.0	19.65	25.80	34.10	44.80	57.90	73.80	92.60	114.50				
15.0	17.75	23.90	31.90	42.10	54.60	69.60	87.40	108.00	132.00			
20.0	15.80	21.90	29.60	39.30	51.10	65.30	82.00	101.50	124.50	150.00	179.50	
25.0	13.70	19.75	27.20	36.40	47.50	60.80	76.50	94.80	116.00	140.50	168.50	180.50
30.0	11.55	17.45	24.60	33.30	43.70	56.10	70.80	87.90	108.00	130.50	157.00	168.00
35.0		15.10	22.00	30.10	39.80	51.30	64.90	80.80	99.30	120.50	145.00	156.00
40.0		12.65	19.15	26.80	35.70	46.30	58.80	73.50	90.60	110.50	133.00	143.50
45.0			16.25	23.30	31.50	41.20	52.60	66.00	81.70	100.00	121.00	130.50
50.0				19.65	27.10	35.90	46.20	58.30	72.60	89.30	108.50	117.50
55.0				15.95	22.60	30.40	39.60	50.40	63.20	78.40	96.10	104.00
60.0					18.05	24.80	32.80	42.30	53.70	67.20	83.30	
62.0					16.15	22.50	30.10	39.10	49.80	62.70		

50 Hz

6MJD-45X 100% Loaded

R404A Dew Point

Cond °C	Power, kW											
	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0
10.0	10.75	12.15	13.55	14.90	16.05	17.05	17.70	18.00				
15.0	11.00	12.55	14.15	15.70	17.10	18.35	19.30	19.90	20.10			
20.0	11.25	13.00	14.80	16.55	18.25	19.70	20.90	21.80	22.30	22.30	21.80	
25.0	11.45	13.40	15.45	17.40	19.35	21.10	22.60	23.80	24.60	25.00	24.90	24.60
30.0	11.60	13.75	16.00	18.25	20.40	22.40	24.30	25.80	27.00	27.70	27.90	27.80
35.0		14.00	16.45	18.95	21.40	23.70	25.90	27.70	29.20	30.30	31.00	31.00
40.0		14.05	16.75	19.55	22.30	24.90	27.30	29.50	31.40	32.90	33.90	34.20
45.0			16.90	19.95	23.00	25.90	28.70	31.20	33.50	35.40	36.80	37.20
50.0				20.10	23.40	26.70	29.80	32.80	35.40	37.70	39.50	40.10
55.0				20.00	23.70	27.30	30.70	34.00	37.10	39.80	42.10	42.80
60.0					23.60	27.50	31.40	35.10	38.50	41.60	44.30	
62.0					23.50	27.50	31.50	35.40	39.00	42.30		

Cond °C	Current at 400 V, A											
	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0
10.0	29.32	30.51	31.89	33.33	34.72	35.93	36.84	37.33				
15.0	29.61	31.01	32.62	34.32	35.99	37.51	38.76	39.61	39.94			
20.0	29.87	31.51	33.38	35.38	37.36	39.22	40.83	42.07	42.82	42.96	42.36	
25.0	30.05	31.96	34.13	36.44	38.77	41.00	43.00	44.66	45.86	46.47	46.37	46.10
30.0	30.09	32.30	34.79	37.45	40.16	42.78	45.21	47.33	49.00	50.11	50.53	50.48
35.0		32.47	35.31	38.35	41.46	44.52	47.41	50.00	52.17	53.81	54.80	54.98
40.0		32.41	35.64	39.09	42.63	46.15	49.52	52.62	55.33	57.53	59.10	59.52
45.0			35.70	39.59	43.60	47.61	51.49	55.13	58.41	61.20	63.38	64.06
50.0				39.81	44.31	48.84	53.26	57.48	61.35	64.76	67.58	68.53
55.0				39.68	44.70	49.78	54.78	59.59	64.09	68.15	71.65	72.87
60.0					44.72	50.37	55.98	61.42	66.57	71.31	75.52	
62.0					44.60	50.50	56.36	62.06	67.48	72.50		

50 Hz

6MJD-45X 100% Loaded

R404A Dew Point

Cond °C	Suction Mass Flow, g/s											
	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0
10.0	146.00	187.50	242.00	311.00	394.00	492.00	605.00	734.00				
15.0	139.50	183.00	239.00	308.00	390.00	487.00	599.00	727.00	871.00			
20.0	131.50	177.50	235.00	304.00	386.00	482.00	592.00	718.00	861.00	1021.00	1198.00	
25.0	122.00	170.50	229.00	299.00	380.00	475.00	584.00	708.00	849.00	1007.00	1182.00	1257.00
30.0	110.50	162.00	222.00	292.00	373.00	467.00	574.00	697.00	835.00	991.00	1165.00	1240.00
35.0		151.50	213.00	284.00	364.00	457.00	563.00	683.00	820.00	974.00	1146.00	1220.00
40.0		138.00	202.00	273.00	354.00	445.00	549.00	668.00	802.00	954.00	1125.00	1198.00
45.0			188.00	260.00	340.00	431.00	533.00	650.00	782.00	932.00	1101.00	1174.00
50.0				244.00	324.00	414.00	515.00	629.00	760.00	908.00	1076.00	1149.00
55.0				225.00	305.00	394.00	493.00	606.00	735.00	882.00	1049.00	1122.00
60.0					282.00	370.00	469.00	581.00	708.00	855.00	1023.00	
62.0					272.00	360.00	459.00	570.00	698.00	844.00		

### **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 (LT), dBA	79
Sound Power (LT), dBA	90
Sound Power with Sound Shell (LT), dBA	75
Sound Conditions (LT, Temperatures: Evap./Cond./Suction at freq./speed)	-35 / 40 / 20 °C at 50 Hz
Sound Pressure @ 1m (MT), dBA	74
Sound Power (MT), dBA	85
Sound Power with Sound Shell (MT), dBA	71
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	3922
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