



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											
	-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	15.50	20.40	26.50	33.90	42.70	53.00	65.20	79.20				
15.0	14.25	19.05	24.90	31.90	40.30	50.20	61.70	75.00	90.20			
20.0	12.95	17.65	23.20	29.90	37.90	47.20	58.10	70.70	85.10	101.50	120.00	
25.0	11.65	16.15	21.50	27.90	35.40	44.10	54.40	66.20	79.80	95.30	113.00	120.50
30.0		14.65	19.75	25.70	32.80	41.00	50.60	61.70	74.40	89.00	105.50	112.50
35.0		13.15	17.95	23.60	30.20	37.80	46.70	57.10	68.90	82.50	98.00	104.50
40.0			16.15	21.40	27.50	34.60	42.80	52.40	63.40	76.00	90.40	96.60
45.0			14.35	19.20	24.80	31.30	38.90	47.60	57.70	69.40	82.70	88.50
50.0				17.00	22.10	28.00	34.80	42.80	52.10	62.70	74.90	80.30
55.0				14.75	19.35	24.70	30.80	38.00	46.30	56.00	67.10	72.00
60.0					16.65	21.30	26.80	33.10	40.50	49.20	59.20	
62.0					15.55	20.00	25.10	31.20	38.20	46.40		

50 Hz

4MJ-33X

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	7.21	8.17	9.06	9.81	10.40	10.75	10.85	10.60				
15.0	7.39	8.48	9.53	10.45	11.25	11.85	12.20	12.25	12.00			
20.0	7.51	8.73	9.92	11.05	12.05	12.90	13.50	13.85	13.85	13.50	12.75	
25.0	7.57	8.91	10.25	11.55	12.75	13.80	14.65	15.30	15.60	15.60	15.20	14.90
30.0		9.04	10.50	12.00	13.35	14.65	15.75	16.65	17.25	17.55	17.50	17.35
35.0		9.10	10.70	12.35	13.90	15.40	16.70	17.85	18.80	19.40	19.70	19.70
40.0			10.85	12.60	14.35	16.05	17.60	19.00	20.20	21.10	21.80	21.90
45.0			10.90	12.80	14.75	16.60	18.40	20.00	21.50	22.70	23.70	24.00
50.0				12.95	15.00	17.10	19.10	21.00	22.70	24.20	25.50	25.90
55.0				13.00	15.25	17.50	19.70	21.80	23.80	25.60	27.20	27.80
60.0					15.40	17.80	20.20	22.50	24.80	26.90	28.80	
62.0					15.40	17.90	20.40	22.80	25.20	27.30		

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	19.32	20.25	21.20	22.08	22.81	23.31	23.49	23.29				
15.0	19.54	20.61	21.73	22.81	23.77	24.55	25.04	25.18	24.88			
20.0	19.68	20.89	22.18	23.48	24.69	25.74	26.55	27.04	27.13	26.73	25.77	
25.0	19.73	21.09	22.56	24.07	25.54	26.88	28.01	28.86	29.34	29.37	28.87	28.51
30.0		21.20	22.86	24.60	26.32	27.96	29.42	30.63	31.51	31.98	31.95	31.79
35.0		21.20	23.07	25.04	27.03	28.97	30.77	32.35	33.64	34.55	35.00	35.03
40.0			23.17	25.38	27.65	29.90	32.04	34.01	35.71	37.07	38.01	38.24
45.0			23.17	25.63	28.18	30.74	33.24	35.60	37.72	39.54	40.97	41.41
50.0				25.76	28.61	31.50	34.36	37.10	39.66	41.94	43.87	44.52
55.0				25.78	28.92	32.15	35.38	38.53	41.52	44.27	46.71	47.58
60.0					29.13	32.69	36.29	39.85	43.29	46.53	49.48	
62.0					29.17	32.88	36.63	40.36	43.98	47.40		

50 Hz

4MJ-33X

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	86.00	113.50	148.00	189.50	240.00	300.00	371.00	453.00				
15.0	82.40	110.50	145.00	186.50	236.00	296.00	366.00	448.00	544.00			
20.0	78.40	107.00	141.00	182.50	232.00	291.00	360.00	442.00	536.00	647.00	775.00	
25.0	73.80	102.50	137.00	178.00	227.00	285.00	354.00	434.00	528.00	638.00	765.00	822.00
30.0		98.00	132.50	173.50	222.00	279.00	347.00	426.00	519.00	628.00	755.00	812.00
35.0		92.80	127.00	167.50	216.00	272.00	339.00	417.00	509.00	617.00	744.00	800.00
40.0			121.50	161.50	209.00	264.00	330.00	407.00	498.00	606.00	732.00	788.00
45.0			115.00	155.00	201.00	256.00	320.00	397.00	487.00	593.00	719.00	776.00
50.0				147.50	193.00	247.00	310.00	385.00	474.00	580.00	706.00	763.00
55.0				140.00	184.50	237.00	299.00	373.00	462.00	567.00	694.00	751.00
60.0					176.00	227.00	289.00	362.00	450.00	556.00	685.00	
62.0					172.50	224.00	285.00	358.00	446.00	553.00		

### **COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Number of cylinders	4
Displacement @ 50 Hz, m³/h	87.7
Bore/Stroke, mm	75.7/56.0
Length/Width, mm	657/501
Height, mm	452
Net Weight, kg	190
Suction, inch	2 1/8
Discharge, inch	1 3/8
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	74
Sound Power (LT), dBA	85
Sound Power with Sound Shell (LT), dBA	72
Sound Conditions (LT, Temperatures: Evap./Cond./Suction at freq./speed)	-35 / 40 / 20 °C at 50 Hz
Sound Pressure @ 1m (MT), dBA	71
Sound Power (MT), dBA	82
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
Refrigerant's GWP	3922
Refrigerant's classification	A1

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

Maximum Operating Current, A	52.9
Locked Rotor Current, A	230
Default Enclosure Class	IP 54 (IEC 34)

### ACCESSORIES INCLUDED

CoreSense Protection (-P)	Motor protection
Mounting Parts	Spring
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
Capacity Control	Capacity Steps 50%
Mounting Parts	Rubber
Additional Cooling	70 W Vertical Air Flow Fan
Crankcase Heater	100 W Internal
Oil Pressure Switch	OPS2 Electronic Switch
Sound Attenuation	Sound Shell
Adapter Kit	For Parallel Operation
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