



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	30.00	37.80	47.10	58.20	71.30					
15.0	28.50	36.00	45.00	55.70	68.20	82.90				
20.0	27.00	34.20	42.80	53.00	65.10	79.10	95.30			
25.0	25.40	32.30	40.60	50.30	61.80	75.10	90.60	97.40	108.50	118.00
30.0		30.40	38.20	47.50	58.40	71.10	85.70	92.20	102.50	112.00
35.0		28.40	35.90	44.60	54.90	66.90	80.80	86.90	96.80	105.50
40.0		26.40	33.40	41.70	51.40	62.70	75.70	81.50	90.80	99.10
45.0			31.00	38.70	47.70	58.30	70.60	76.00	84.70	92.60
50.0			28.40	35.60	44.00	53.90	65.30	70.40	78.50	85.90
55.0				32.50	40.30	49.30	59.90	64.60	72.20	79.10
60.0				29.30	36.40	44.70	54.50			
62.0				28.10	34.90	42.90				

50 Hz

4MJD-33X 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	7.88	8.33	8.65	8.83	8.86					
15.0	8.53	9.10	9.55	9.86	10.05	10.05				
20.0	9.15	9.87	10.45	10.90	11.25	11.40	11.35			
25.0	9.74	10.60	11.35	12.00	12.45	12.75	12.90	12.95	12.90	12.80
30.0		11.30	12.25	13.05	13.70	14.20	14.50	14.60	14.65	14.65
35.0		11.95	13.10	14.05	14.90	15.60	16.15	16.30	16.50	16.60
40.0		12.55	13.90	15.05	16.10	17.00	17.75	18.00	18.30	18.55
45.0			14.60	16.00	17.30	18.40	19.40	19.70	20.20	20.50
50.0			15.25	16.90	18.40	19.75	21.00	21.40	22.00	22.50
55.0				17.70	19.45	21.10	22.50	23.10	23.80	24.40
60.0				18.40	20.40	22.30	24.10			
62.0				18.65	20.80	22.80				

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	20.02	20.39	20.68	20.85	20.88					
15.0	20.56	21.07	21.52	21.85	22.03	22.03				
20.0	21.14	21.83	22.46	22.97	23.34	23.53	23.50			
25.0	21.72	22.63	23.47	24.20	24.78	25.19	25.38	25.39	25.33	25.19
30.0		23.44	24.51	25.49	26.32	26.97	27.42	27.53	27.61	27.61
35.0		24.21	25.56	26.80	27.91	28.84	29.57	29.79	30.05	30.18
40.0		24.93	26.57	28.12	29.53	30.77	31.81	32.16	32.60	32.89
45.0			27.52	29.40	31.15	32.73	34.10	34.58	35.23	35.70
50.0			28.38	30.62	32.73	34.67	36.41	37.05	37.92	38.57
55.0				31.73	34.24	36.58	38.72	39.51	40.62	41.47
60.0				32.71	35.64	38.40	40.97			
62.0				33.06	36.16	39.11				

50 Hz

4MJD-33X 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	141.00	178.00	223.00	277.00	341.00					
15.0	138.50	175.50	220.00	274.00	338.00	414.00				
20.0	136.00	173.00	218.00	271.00	335.00	410.00	499.00			
25.0	133.00	170.00	214.00	268.00	331.00	406.00	494.00	534.00	598.00	656.00
30.0		166.50	211.00	264.00	326.00	401.00	488.00	528.00	592.00	650.00
35.0		163.00	207.00	259.00	321.00	395.00	482.00	521.00	585.00	643.00
40.0		158.50	202.00	254.00	315.00	388.00	474.00	513.00	577.00	635.00
45.0			197.00	248.00	309.00	381.00	466.00	505.00	568.00	626.00
50.0			191.50	242.00	301.00	373.00	457.00	496.00	559.00	616.00
55.0				235.00	293.00	364.00	448.00	486.00	549.00	606.00
60.0				227.00	285.00	354.00	438.00			
62.0				224.00	282.00	351.00				

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	196
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 (MT), dBA	71
Sound Power (MT), dBA	82
Sound Power with Sound Shell (MT), dBA	70
Sound Conditions (MT, Temperatures: Evap./Cond./Suction at freq./speed)	-10 / 45 / 20 °C at 50 Hz
Sound Pressure @ 1m (HT), dBA	71
Sound Power (HT), dBA	82
Sound Power with Sound Shell (HT), dBA	70
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	50-100%
Refrigerant's GWP	2107
Refrigerant's classification	A1

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

Maximum Operating Current, A	52.9
Locked Rotor Current, A	221
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

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

ACCESSORIES OPTIONAL

Adapter Kit	For Parallel Operation
Digital Driver	EC3-D23
Check Valve	For unloaded start operation
Mounting Parts	Rubber
Additional Cooling	70 W Vertical Air Flow Fan
Crankcase Heater	100 W Internal
Sound Attenuation	Sound Shell
Oil Pressure Switch	OPS2 Electronic Switch
Digital Modulation	50-100 %
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