



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	34.90	44.30	55.90	69.70	86.10				
15.0	33.00	42.00	53.00	66.10	81.70				
20.0	31.20	39.80	50.20	62.60	77.30	94.50			
25.0	29.40	37.60	47.40	59.10	72.90	89.10	108.00	116.00	
30.0		35.40	44.70	55.70	68.70	83.90	101.50	109.50	122.00
35.0			42.00	52.30	64.40	78.70	95.20	102.50	114.00
40.0			39.30	49.00	60.30	73.50	88.90	95.70	106.50
45.0				45.70	56.10	68.40	82.70	89.00	99.20
50.0				42.40	52.00	63.30	76.50	82.40	91.80
55.0					47.90	58.30	70.40	75.80	84.40
60.0						53.30	64.30	69.20	

50 Hz

4MJD-33X 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	8.83	9.30	9.47	9.22	8.44				
15.0	9.67	10.40	10.85	10.95	10.60				
20.0	10.45	11.35	12.10	12.55	12.60	12.15			
25.0	11.20	12.30	13.25	14.05	14.45	14.45	13.85	13.45	
30.0		13.15	14.35	15.40	16.15	16.55	16.45	16.25	15.70
35.0			15.35	16.65	17.75	18.50	18.85	18.85	18.65
40.0			16.30	17.80	19.20	20.30	21.10	21.30	21.40
45.0				18.90	20.60	22.00	23.20	23.50	23.90
50.0				19.95	21.80	23.60	25.10	25.60	26.30
55.0					23.10	25.10	26.90	27.60	28.50
60.0						26.50	28.60	29.40	

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	20.85	21.37	21.57	21.30	20.37				
15.0	21.69	22.47	23.02	23.18	22.76				
20.0	22.55	23.56	24.44	25.01	25.09	24.52			
25.0	23.40	24.64	25.83	26.79	27.36	27.35	26.60	26.05	
30.0		25.70	27.19	28.53	29.56	30.10	29.98	29.71	29.03
35.0			28.50	30.21	31.68	32.76	33.26	33.26	33.01
40.0			29.77	31.82	33.73	35.32	36.42	36.68	36.85
45.0				33.37	35.69	37.77	39.46	39.98	40.57
50.0				34.84	37.56	40.13	42.38	43.15	44.14
55.0					39.33	42.37	45.17	46.18	47.56
60.0						44.49	47.82	49.08	

50 Hz

4MJD-33X 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	148.50	189.50	240.00	302.00	375.00				
15.0	145.50	186.00	235.00	296.00	368.00				
20.0	142.00	182.00	231.00	290.00	360.00	445.00			
25.0	139.00	178.00	226.00	284.00	353.00	436.00	533.00	577.00	
30.0		174.50	221.00	278.00	346.00	426.00	522.00	565.00	636.00
35.0			217.00	272.00	338.00	417.00	511.00	553.00	622.00
40.0			212.00	266.00	330.00	407.00	499.00	541.00	609.00
45.0				260.00	323.00	398.00	488.00	528.00	595.00
50.0				254.00	315.00	388.00	476.00	516.00	581.00
55.0					307.00	379.00	464.00	503.00	567.00
60.0						370.00	453.00	491.00	

### 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 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	50-100%
Refrigerant's GWP	1825
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