



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								
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0
10.0		16.35	21.50	27.90	35.50	44.60	55.20	67.60	
15.0			20.40	26.50	33.80	42.40	52.60	64.40	77.90
20.0			19.35	25.10	32.00	40.30	49.90	61.20	74.10
25.0				23.70	30.30	38.10	47.30	58.00	70.30
30.0				22.30	28.60	36.00	44.70	54.80	66.50
35.0					26.90	33.80	42.00	51.60	62.70
40.0						31.70	39.40	48.40	58.90
45.0							36.80	45.30	55.10
50.0							34.10	42.10	51.30
55.0									
60.0									

50 Hz

4MLD-15X 100% Loaded

R407F Dew Point

Cond °C	Power, kW								
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0
10.0		6.14	6.80	7.39	7.86	8.16	8.24	8.05	
15.0			7.26	7.98	8.60	9.07	9.33	9.34	9.05
20.0			7.71	8.56	9.33	9.97	10.40	10.65	10.55
25.0				9.12	10.05	10.85	11.50	11.90	12.10
30.0				9.65	10.75	11.70	12.55	13.20	13.60
35.0					11.40	12.55	13.55	14.45	15.05
40.0						13.35	14.55	15.65	16.50
45.0							15.50	16.80	17.90
50.0							16.40	17.95	19.30
55.0									
60.0									

Cond °C	Current at 400 V, A								
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0
10.0		14.35	15.07	15.75	16.31	16.66	16.73	16.43	
15.0			15.57	16.41	17.15	17.72	18.04	18.03	17.61
20.0			16.07	17.08	18.02	18.82	19.41	19.69	19.59
25.0				17.75	18.91	19.95	20.80	21.39	21.63
30.0				18.41	19.79	21.08	22.22	23.12	23.71
35.0					20.65	22.20	23.64	24.86	25.81
40.0						23.30	25.04	26.60	27.91
45.0							26.41	28.32	30.01
50.0							27.74	30.00	32.08
55.0									
60.0									

50 Hz

4MLD-15X 100% Loaded

R407F Dew Point

Cond °C	Suction Mass Flow, g/s								
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0
10.0		69.20	91.40	118.50	152.00	192.00	239.00	295.00	
15.0			89.50	116.50	149.50	188.50	235.00	290.00	354.00
20.0			87.70	114.50	146.50	185.00	231.00	285.00	349.00
25.0				112.00	143.50	182.00	227.00	281.00	343.00
30.0				109.50	141.00	178.50	223.00	276.00	338.00
35.0					137.50	174.50	219.00	271.00	332.00
40.0						171.00	214.00	266.00	326.00
45.0							209.00	260.00	320.00
50.0							205.00	255.00	314.00
55.0									
60.0									

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	4
Displacement @ 50 Hz, m ³ /h	71.4
Bore/Stroke, mm	68.3/56.0
Length/Width, mm	638/501
Height, mm	452
Net Weight, kg	186
Suction, inch	1 5/8
Discharge, inch	1 1/8
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	69
Sound Power (MT), dBA	80
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	35.4
Locked Rotor Current, A	156
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
Crankcase Heater	100 W Internal
Sound Attenuation	Sound Shell
Mounting Parts	Rubber
Additional Cooling	70 W Vertical Air Flow Fan
Oil Pressure Switch	OPS2 Electronic Switch
Digital Modulation	50-100 %
Adapter Kit	For Parallel Operation
Digital Driver	EC3-D23
Copeland Compressor Electronic module	Modbus extension module

MOTOR OPTIONS

Motor Code	Power Supply	Nominal Voltage, V	Start Connection	DOL Connection	Amps Factor
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