



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		15.85	20.80	27.00	34.30	43.10	53.20	65.00	
15.0			19.80	25.70	32.70	41.00	50.70	61.90	
20.0			18.75	24.30	31.00	38.90	48.10	58.80	
25.0				23.00	29.30	36.80	45.60	55.70	67.30
30.0					27.60	34.70	43.00	52.50	63.50
35.0					25.90	32.50	40.30	49.30	59.70
40.0						30.40	37.70	46.10	55.80
45.0							35.00	42.90	52.00
50.0							32.20	39.60	48.10
55.0								36.30	44.10
60.0								32.90	
62.0									

50 Hz

4MLD-15X 100% Loaded

R407A 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		5.94	6.58	7.13	7.56	7.83	7.92	7.79	
15.0			7.04	7.71	8.28	8.71	8.97	9.03	
20.0			7.46	8.26	8.97	9.56	9.99	10.25	
25.0				8.77	9.63	10.40	11.00	11.45	11.70
30.0					10.25	11.15	11.95	12.60	13.05
35.0					10.85	11.90	12.90	13.75	14.40
40.0						12.65	13.80	14.85	15.75
45.0							14.65	15.90	17.05
50.0							15.45	16.95	18.25
55.0								17.90	19.50
60.0								18.85	
62.0									

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		14.36	14.95	15.51	15.97	16.26	16.33	16.08	
15.0			15.37	16.09	16.74	17.25	17.56	17.60	
20.0			15.79	16.68	17.53	18.27	18.84	19.15	
25.0				17.27	18.33	19.30	20.13	20.74	21.06
30.0					19.12	20.33	21.42	22.33	22.98
35.0					19.89	21.35	22.71	23.92	24.91
40.0						22.34	23.99	25.51	26.83
45.0							25.23	27.06	28.73
50.0							26.42	28.58	30.60
55.0								30.04	32.42
60.0								31.45	
62.0									

50 Hz

4MLD-15X 100% Loaded

R407A 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		73.90	97.40	126.50	161.50	204.00	253.00	311.00	
15.0			95.90	124.50	159.50	201.00	250.00	307.00	
20.0			94.20	122.50	157.00	198.00	246.00	303.00	
25.0				120.50	154.50	194.50	242.00	298.00	363.00
30.0					151.50	191.00	238.00	293.00	358.00
35.0					148.50	187.50	234.00	288.00	352.00
40.0						183.50	229.00	283.00	346.00
45.0							224.00	277.00	339.00
50.0							218.00	271.00	333.00
55.0								264.00	325.00
60.0								257.00	
62.0									

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	70
Sound Power (MT), dBA	81
Sound Power with Sound Shell (MT), dBA	69
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	2107
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