



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

Additional restrictions, please see application guidelines

50 Hz

4MLD-15X

R513A

Cond °C	Cooling Capacity, kW								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
16.0	18.35								
20.0	17.45	22.00							
25.0	16.35	20.70	26.00	32.30					
30.0	15.25	19.45	24.40	30.40	37.40	45.40			
35.0	14.15	18.10	22.90	28.50	35.10	42.70	51.40	55.20	61.30
40.0	13.05	16.80	21.30	26.50	32.70	39.90	48.00	51.60	57.30
45.0	11.95	15.45	19.65	24.60	30.30	37.00	44.60	48.00	53.30
50.0	10.80	14.10	18.00	22.60	27.90	34.10	41.10	44.20	49.20
55.0		12.80	16.35	20.60	25.50	31.10	37.60	40.50	45.00
60.0		11.45	14.75	18.55	23.00	28.20	34.10	36.60	40.80
65.0			13.10	16.55	20.50	25.20	30.50	32.80	36.50
70.0			11.45	14.50	18.05	22.10	26.80	28.90	32.20
75.0				12.45	15.55	19.10	23.20	25.00	27.80
80.0				10.45	13.05	16.05	19.50	21.00	23.40
85.0					10.55	12.95	15.80	17.05	19.05

Cond °C	Power, kW								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
16.0	5.63								
20.0	5.85	6.32							
25.0	6.10	6.68	7.18	7.58					
30.0	6.31	7.00	7.63	8.18	8.61	8.91			
35.0	6.48	7.28	8.03	8.72	9.32	9.80	10.10	10.20	10.30
40.0	6.62	7.51	8.38	9.20	9.96	10.60	11.15	11.30	11.50
45.0	6.73	7.70	8.68	9.63	10.55	11.35	12.05	12.30	12.65
50.0	6.80	7.85	8.93	10.00	11.05	12.00	12.90	13.25	13.70
55.0		7.96	9.13	10.30	11.50	12.60	13.70	14.10	14.65
60.0		8.03	9.28	10.55	11.85	13.15	14.35	14.85	15.55
65.0			9.38	10.75	12.15	13.60	14.95	15.50	16.30
70.0			9.44	10.90	12.40	13.95	15.50	16.10	17.00
75.0				11.00	12.60	14.25	15.95	16.60	17.60
80.0				11.05	12.75	14.50	16.35	17.05	18.15
85.0					12.80	14.70	16.60	17.40	18.60

Additional restrictions, please see application guidelines

50 Hz

4MLD-15X

R513A

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
16.0	13.96								
20.0	14.15	14.64							
25.0	14.38	15.00	15.56	16.02					
30.0	14.59	15.33	16.06	16.71	17.24	17.59			
35.0	14.77	15.63	16.51	17.35	18.10	18.71	19.13	19.23	19.31
40.0	14.93	15.90	16.92	17.94	18.90	19.76	20.47	20.70	20.97
45.0	15.06	16.12	17.28	18.46	19.64	20.74	21.73	22.08	22.54
50.0	15.16	16.31	17.58	18.93	20.30	21.64	22.89	23.36	24.01
55.0		16.45	17.84	19.34	20.89	22.46	23.97	24.55	25.38
60.0		16.54	18.03	19.68	21.41	23.19	24.95	25.64	26.65
65.0			18.17	19.94	21.85	23.83	25.83	26.63	27.81
70.0			18.24	20.14	22.20	24.38	26.61	27.52	28.86
75.0				20.25	22.47	24.83	27.29	28.29	29.80
80.0				20.29	22.65	25.19	27.86	28.96	30.62
85.0					22.73	25.44	28.32	29.51	31.32

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
16.0	102.00								
20.0	100.00	126.50							
25.0	97.90	124.50	156.50	194.50					
30.0	95.40	122.00	153.50	191.50	237.00	289.00			
35.0	92.80	119.00	150.50	188.50	233.00	285.00	345.00	372.00	415.00
40.0	89.90	116.00	147.50	185.00	229.00	280.00	340.00	366.00	409.00
45.0	86.90	113.00	144.00	181.00	224.00	275.00	334.00	360.00	402.00
50.0	83.80	109.50	140.50	176.50	220.00	270.00	328.00	353.00	395.00
55.0		106.00	136.00	172.00	214.00	263.00	321.00	346.00	387.00
60.0		102.00	132.00	167.00	208.00	257.00	313.00	338.00	378.00
65.0			127.50	161.50	202.00	249.00	305.00	329.00	369.00
70.0			122.50	156.00	195.00	241.00	295.00	319.00	358.00
75.0				149.50	187.50	233.00	285.00	309.00	347.00
80.0				143.00	180.00	224.00	275.00	299.00	336.00
85.0					173.50	216.00	267.00	290.00	328.00

Additional restrictions, please see application guidelines

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	68
Sound Power (MT), dBA	79
Sound Power with Sound Shell (MT), dBA	65
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	631
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

Additional restrictions, please see application guidelines

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	YY/Y	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	YY/Y	Y	1.73
AWY	500-550 V / 3~ / 50 Hz	525	YY/Y	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	YY/Y	Y	2.19
AWX	380 V / 3~ / 60 Hz	380	YY/Y	Y	1.20
AWD	440-480 V / 3~ / 60 Hz	460	YY/Y	Y	1.00

Additional restrictions, please see application guidelines