



Minimum Evaporating Temp. With:

- 20 °C Suction Gas Return
- 0 °C Suction Gas Return
- 0 °C Suction Gas Return with add cooling
- Maximum Evaporating Temperature

Suction Superheat 10.0K

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW									
	-50.0	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
5.0	8.26	11.50	15.70	20.90	27.20	34.70	43.60			
10.0	7.42	10.55	14.50	19.45	25.40	32.50	40.90	50.70	61.90	
15.0	6.59	9.57	13.35	17.95	23.60	30.30	38.20	47.40	58.10	70.30
20.0		8.60	12.15	16.50	21.70	28.00	35.40	44.10	54.20	65.80
25.0		7.63	10.95	15.00	19.90	25.80	32.70	40.90	50.40	61.30
30.0			9.77	13.55	18.10	23.60	30.00	37.60	46.50	56.80
35.0			8.59	12.10	16.30	21.30	27.30	34.40	42.70	52.30
40.0				10.60	14.45	19.10	24.60	31.20	38.90	47.80
45.0				9.15	12.65	16.85	21.90	27.90	35.00	43.40
50.0					10.85	14.65	19.20	24.70	31.20	38.90
55.0						12.45	16.50	21.40	27.40	34.40
60.0						10.20	13.80	18.20	23.50	
62.0						9.33	12.75	16.90	22.00	

50 Hz

4MLD-15X 100% Loaded

R404A Dew Point

Cond °C	Power, kW									
	-50.0	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
5.0	4.68	5.46	6.20	6.87	7.40	7.74	7.85			
10.0	4.81	5.67	6.53	7.33	8.02	8.55	8.88	8.94	8.70	
15.0	4.91	5.85	6.80	7.73	8.57	9.28	9.81	10.10	10.10	9.80
20.0		5.99	7.04	8.08	9.06	9.94	10.65	11.20	11.45	11.40
25.0		6.10	7.23	8.38	9.49	10.55	11.45	12.15	12.65	12.85
30.0			7.39	8.63	9.87	11.05	12.15	13.05	13.80	14.25
35.0			7.52	8.84	10.20	11.50	12.75	13.90	14.80	15.50
40.0				9.02	10.50	11.95	13.30	14.60	15.75	16.70
45.0				9.17	10.70	12.30	13.80	15.30	16.60	17.80
50.0					10.90	12.60	14.25	15.90	17.40	18.80
55.0						12.85	14.65	16.40	18.10	19.70
60.0						13.05	15.00	16.90	18.75	
62.0						13.15	15.10	17.05	19.00	

Cond °C	Current at 400 V, A									
	-50.0	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
5.0	13.22	13.91	14.60	15.24	15.77	16.13	16.28			
10.0	13.32	14.11	14.93	15.73	16.45	17.03	17.44	17.60	17.46	
15.0	13.41	14.29	15.23	16.18	17.09	17.90	18.56	19.00	19.18	19.05
20.0		14.43	15.50	16.60	17.70	18.72	19.63	20.36	20.85	21.06
25.0		14.55	15.73	16.98	18.26	19.50	20.65	21.65	22.46	23.01
30.0			15.92	17.32	18.77	20.22	21.61	22.89	24.01	24.89
35.0			16.06	17.60	19.23	20.89	22.52	24.07	25.48	26.71
40.0				17.83	19.63	21.49	23.36	25.17	26.89	28.44
45.0				17.99	19.96	22.02	24.12	26.20	28.22	30.10
50.0					20.23	22.48	24.81	27.16	29.46	31.67
55.0						22.87	25.42	28.02	30.61	33.14
60.0						23.17	25.94	28.80	31.67	
62.0						23.26	26.12	29.08	32.07	

50 Hz

4MLD-15X 100% Loaded

R404A Dew Point

Cond °C	Suction Mass Flow, g/s									
	-50.0	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
5.0	59.60	81.30	108.50	141.50	180.00	225.00	277.00			
10.0	56.50	78.40	105.50	138.00	176.50	221.00	272.00	331.00	397.00	
15.0	53.10	75.20	102.00	134.50	172.50	216.00	267.00	325.00	390.00	463.00
20.0		71.70	98.70	130.50	168.00	212.00	262.00	319.00	383.00	456.00
25.0		67.90	94.80	126.50	163.50	206.00	256.00	312.00	376.00	448.00
30.0			90.70	122.00	158.50	201.00	250.00	305.00	369.00	440.00
35.0			86.00	117.50	153.50	195.00	243.00	298.00	361.00	432.00
40.0				112.00	148.00	189.00	237.00	291.00	353.00	424.00
45.0				106.00	141.50	182.50	229.00	283.00	345.00	415.00
50.0					134.50	175.00	222.00	275.00	337.00	407.00
55.0						167.50	214.00	267.00	329.00	400.00
60.0						159.50	206.00	260.00	322.00	
62.0						156.50	203.00	258.00	321.00	

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 (LT), dBA	71
Sound Power (LT), dBA	82
Sound Power with Sound Shell (LT), dBA	70
Sound Conditions (LT, Temperatures: Evap./Cond./Suction at freq./speed)	-35 / 40 / 20 °C at 50 Hz
Sound Pressure @ 1m (MT), dBA	69
Sound Power (MT), dBA	80
Sound Power with Sound Shell (MT), dBA	68
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	3922
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

<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