



Minimum Evaporating Temp. With:

- 20 K Suction Superheat
- 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									
	-50.0	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
5.0	9.54	12.90	17.15	22.40	28.80	36.40	45.30			
10.0	8.84	12.05	16.10	21.10	27.20	34.30	42.80	52.50	63.80	
15.0	8.13	11.25	15.10	19.85	25.50	32.30	40.30	49.50	60.10	72.20
20.0	7.42	10.40	14.05	18.55	23.90	30.30	37.80	46.50	56.50	67.90
25.0		9.55	13.05	17.25	22.30	28.30	35.30	43.50	52.90	63.60
30.0			12.00	15.95	20.70	26.30	32.80	40.50	49.20	59.30
35.0			10.95	14.65	19.05	24.20	30.30	37.40	45.60	55.00
40.0				13.30	17.40	22.20	27.90	34.40	42.00	50.80
45.0				11.95	15.75	20.20	25.40	31.40	38.40	46.50
50.0					14.05	18.10	22.90	28.40	34.80	42.20
55.0					12.35	16.05	20.30	25.30	31.20	37.90
60.0						13.95	17.80	22.30	27.50	
62.0						13.10	16.75	21.10	26.10	

50 Hz

4ML-15X

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	4.99	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					11.05	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	13.47	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					20.42	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

4ML-15X

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	50.80	68.80	91.80	120.50	155.00	196.50	246.00			
10.0	49.00	67.00	89.70	118.00	152.00	193.00	242.00	299.00	365.00	
15.0	47.00	65.00	87.60	115.50	149.00	189.50	237.00	294.00	359.00	435.00
20.0	44.70	62.80	85.30	112.50	146.00	185.50	233.00	288.00	353.00	428.00
25.0		60.50	82.80	110.00	142.50	182.00	228.00	283.00	347.00	421.00
30.0			80.10	107.00	139.00	177.50	223.00	277.00	340.00	414.00
35.0			77.10	103.50	135.50	173.50	218.00	271.00	334.00	407.00
40.0				100.00	131.50	168.50	213.00	265.00	327.00	399.00
45.0				96.10	127.00	163.50	207.00	259.00	320.00	392.00
50.0					122.50	158.50	201.00	252.00	313.00	385.00
55.0					117.00	153.00	195.50	246.00	306.00	378.00
60.0						147.50	189.50	240.00	301.00	
62.0						145.00	187.50	238.00	299.00	

### **COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Number of cylinders	4
Displacement @ 50 Hz, m <sup>3</sup> /h	71.4
Bore/Stroke, mm	68.3/56.0
Length/Width, mm	638/501
Height, mm	452
Net Weight, kg	180
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
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**

<p>Oil Pressure Switch (-P)          Mounting Parts          CoreSense Protection (-P)          Copeland Compressor Electronic (-N)</p>	<p>OPS2 Sensor          Spring          Motor protection          Oil pressure, motor and discharge line temperature protection;          advanced diagnostics features and power measurement</p>
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### **ACCESSORIES OPTIONAL**

<p>Capacity Control          Check Valve          Mounting Parts          Additional Cooling          Crankcase Heater          Sound Attenuation          Oil Pressure Switch          Adapter Kit          Copeland Compressor Electronic module</p>	<p>Capacity Steps 50%          For unloaded start operation          Rubber          70 W Vertical Air Flow Fan          100 W Internal          Sound Shell          OPS2 Electronic Switch          For Parallel Operation          Modbus extension module</p>
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### **MOTOR OPTIONS**

<i><b>Motor Code</b></i>	<i><b>Power Supply</b></i>	<i><b>Nominal Voltage, V</b></i>	<i><b>Start Connection</b></i>	<i><b>DOL Connection</b></i>	<i><b>Amps Factor</b></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