



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		18.70	24.60	31.90	40.70	51.20	63.50	77.80	
15.0			23.30	30.20	38.60	48.50	60.20	73.80	
20.0			22.10	28.60	36.50	45.90	56.90	69.70	
25.0				27.00	34.50	43.30	53.70	65.80	79.70
30.0					32.40	40.70	50.50	61.90	75.00
35.0					30.40	38.20	47.40	58.00	70.40
40.0						35.70	44.20	54.20	65.80
45.0							41.10	50.40	61.20
50.0							38.00	46.60	56.60
55.0								42.80	52.10
60.0								39.00	
62.0									

50 Hz

4MTD-22X 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		7.36	8.20	8.93	9.52	9.92	10.10	10.00	
15.0			8.80	9.68	10.45	11.05	11.40	11.55	
20.0			9.36	10.40	11.35	12.10	12.70	13.10	
25.0				11.05	12.20	13.15	14.00	14.60	14.95
30.0					13.00	14.15	15.20	16.05	16.70
35.0					13.75	15.15	16.40	17.50	18.35
40.0						16.05	17.50	18.85	20.00
45.0							18.60	20.20	21.60
50.0							19.65	21.50	23.20
55.0								22.70	24.70
60.0								23.90	
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		17.18	17.99	18.78	19.45	19.91	20.09	19.89	
15.0			18.59	19.59	20.50	21.25	21.73	21.88	
20.0			19.20	20.41	21.58	22.61	23.41	23.91	
25.0				21.23	22.65	23.98	25.11	25.97	26.46
30.0					23.72	25.34	26.80	28.03	28.93
35.0					24.75	26.68	28.48	30.08	31.39
40.0						27.98	30.13	32.11	33.83
45.0							31.73	34.10	36.25
50.0							33.27	36.03	38.61
55.0								37.89	40.90
60.0								39.66	
62.0									

50 Hz

4MTD-22X 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		87.20	115.00	149.50	191.50	242.00	302.00	372.00	
15.0			113.00	147.00	188.00	238.00	297.00	366.00	
20.0			111.00	144.00	184.50	233.00	291.00	359.00	
25.0				141.50	181.50	229.00	286.00	352.00	431.00
30.0					178.00	225.00	280.00	346.00	423.00
35.0					174.50	220.00	275.00	339.00	415.00
40.0						216.00	269.00	333.00	407.00
45.0							264.00	326.00	400.00
50.0							258.00	319.00	392.00
55.0								312.00	384.00
60.0								305.00	
62.0									

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	4
Displacement @ 50 Hz, m ³ /h	87.7
Bore/Stroke, mm	75.7/56.0
Length/Width, mm	657/501
Height, mm	452
Net Weight, kg	189
Suction, inch	2 1/8
Discharge, inch	1 3/8
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	72
Sound Power (MT), dBA	83
Sound Power with Sound Shell (MT), dBA	71
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	44.5
Locked Rotor Current, A	175
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

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

ACCESSORIES OPTIONAL

Adapter Kit	For Parallel Operation
Digital Driver	EC3-D23
Oil Pressure Switch	OPS2 Electronic Switch
Digital Modulation	50-100 %
Additional Cooling	70 W Vertical Air Flow Fan
Crankcase Heater	100 W Internal
Sound Attenuation	Sound Shell
Check Valve	For unloaded start operation
Mounting Parts	Rubber
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