



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	12.55	16.50	21.50	27.70	35.00	43.80	54.10			
10.0	11.70	15.60	20.40	26.30	33.40	41.80	51.60	63.00	76.00	
15.0	10.85	14.60	19.25	24.90	31.70	39.70	49.00	59.90	72.30	86.50
20.0	9.97	13.60	18.05	23.40	29.80	37.40	46.30	56.60	68.50	82.00
25.0		12.55	16.75	21.90	27.90	35.10	43.50	53.30	64.50	77.30
30.0			15.45	20.30	26.00	32.70	40.70	49.90	60.50	72.60
35.0			14.10	18.65	24.00	30.30	37.70	46.30	56.30	67.70
40.0				16.95	21.90	27.80	34.70	42.70	52.00	62.70
45.0				15.20	19.80	25.20	31.60	39.00	47.60	57.60
50.0					17.65	22.60	28.40	35.20	43.20	52.40
55.0					15.45	19.90	25.20	31.40	38.70	47.10
60.0						17.20	21.90	27.50	34.10	
62.0						16.15	20.60	25.90	32.20	

50 Hz

4MT-22X

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	5.95	6.83	7.68	8.46	9.13	9.63	9.93			
10.0	6.13	7.12	8.09	9.01	9.83	10.50	11.00	11.30	11.30	
15.0	6.30	7.38	8.47	9.53	10.50	11.35	12.05	12.55	12.80	12.75
20.0	6.43	7.61	8.82	10.00	11.15	12.20	13.05	13.75	14.25	14.45
25.0		7.80	9.12	10.45	11.75	12.95	14.05	14.95	15.65	16.10
30.0			9.37	10.85	12.30	13.65	14.95	16.05	17.00	17.70
35.0			9.57	11.15	12.75	14.30	15.80	17.10	18.30	19.25
40.0				11.45	13.20	14.90	16.55	18.10	19.50	20.70
45.0				11.60	13.50	15.40	17.25	19.00	20.60	22.10
50.0					13.75	15.85	17.85	19.80	21.70	23.40
55.0					13.90	16.15	18.35	20.50	22.60	24.50
60.0						16.40	18.80	21.20	23.40	
62.0						16.45	18.90	21.40	23.80	

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	15.78	16.61	17.50	18.38	19.18	19.83	20.26			
10.0	15.93	16.88	17.91	18.96	19.95	20.82	21.51	21.93	22.03	
15.0	16.09	17.16	18.33	19.56	20.75	21.86	22.80	23.52	23.93	23.98
20.0	16.22	17.42	18.75	20.16	21.57	22.91	24.12	25.13	25.87	26.27
25.0		17.64	19.14	20.73	22.36	23.95	25.44	26.75	27.82	28.58
30.0			19.47	21.26	23.12	24.96	26.73	28.35	29.76	30.88
35.0			19.73	21.72	23.81	25.91	27.97	29.91	31.66	33.16
40.0				22.09	24.41	26.79	29.14	31.40	33.51	35.39
45.0				22.34	24.91	27.56	30.21	32.80	35.27	37.54
50.0					25.27	28.20	31.16	34.10	36.93	39.59
55.0					25.47	28.69	31.97	35.25	38.46	41.52
60.0						29.01	32.61	36.25	39.83	
62.0						29.08	32.82	36.59	40.33	

50 Hz

4MT-22X

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	66.90	88.30	115.00	148.50	189.00	237.00	294.00			
10.0	65.00	86.60	113.50	147.00	187.00	235.00	292.00	358.00	435.00	
15.0	62.70	84.60	111.50	145.00	185.00	233.00	289.00	355.00	432.00	521.00
20.0	60.20	82.20	109.50	142.50	182.00	229.00	286.00	351.00	428.00	517.00
25.0		79.50	106.50	139.50	179.00	226.00	281.00	347.00	423.00	512.00
30.0			103.50	136.00	175.00	222.00	277.00	342.00	418.00	506.00
35.0			99.60	132.00	170.50	217.00	271.00	336.00	411.00	500.00
40.0				127.50	165.50	211.00	265.00	329.00	404.00	493.00
45.0				122.00	159.50	205.00	258.00	322.00	397.00	485.00
50.0					153.50	197.50	250.00	313.00	388.00	477.00
55.0					146.50	190.00	242.00	305.00	380.00	470.00
60.0						182.00	234.00	297.00	372.00	
62.0						179.00	231.00	293.00	370.00	

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	183
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 (LT), dBA	73
Sound Power (LT), dBA	84
Sound Power with Sound Shell (LT), dBA	72
Sound Conditions (LT, Temperatures: Evap./Cond./Suction at freq./speed)	-35 / 40 / 20 °C at 50 Hz
Sound Pressure @ 1m (MT), dBA	71
Sound Power (MT), dBA	82
Sound Power with Sound Shell (MT), dBA	70
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	44.5
Locked Rotor Current, A	175
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

CoreSense Protection (-P)	Motor protection
Mounting Parts	Spring
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

Adapter Kit	For Parallel Operation
Check Valve	For unloaded start operation
Capacity Control	Capacity Steps 50%
Mounting Parts	Rubber
Additional Cooling	70 W Vertical Air Flow Fan
Crankcase Heater	100 W Internal
Oil Pressure Switch	OPS2 Electronic Switch
Sound Attenuation	Sound Shell
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