



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											
	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0
10.0	13.75	18.15	23.40	29.70	37.10	45.90	56.00	67.70				
15.0	12.65	17.05	22.20	28.30	35.40	43.80	53.50	64.70	77.50			
20.0	11.40	15.80	20.80	26.70	33.60	41.60	50.80	61.50	73.60	87.50	103.00	
25.0	10.10	14.45	19.35	25.00	31.60	39.20	47.90	58.00	69.60	82.70	97.60	104.00
30.0		13.00	17.75	23.20	29.50	36.60	44.90	54.40	65.30	77.70	91.70	97.90
35.0		11.50	16.10	21.30	27.20	34.00	41.80	50.70	60.90	72.50	85.70	91.40
40.0			14.40	19.35	24.90	31.20	38.50	46.80	56.30	67.10	79.50	84.80
45.0			12.60	17.30	22.50	28.40	35.10	42.80	51.60	61.60	73.10	78.10
50.0				15.20	20.00	25.40	31.60	38.60	46.70	56.00	66.50	71.10
55.0				13.05	17.50	22.40	28.00	34.40	41.80	50.20	59.80	64.00
60.0					14.95	19.40	24.40	30.10	36.70	44.30	53.00	
62.0					13.90	18.15	22.90	28.40	34.70	41.90		

50 Hz

4MI-30X

R404A Dew Point

Cond °C	Power, kW											
	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0
10.0	6.43	7.29	8.06	8.72	9.28	9.72	10.05	10.20				
15.0	6.61	7.61	8.51	9.31	10.00	10.55	11.00	11.30	11.45			
20.0	6.71	7.86	8.91	9.86	10.70	11.40	12.00	12.45	12.75	12.85	12.85	
25.0	6.72	8.03	9.25	10.35	11.35	12.25	13.00	13.60	14.05	14.35	14.45	14.45
30.0		8.11	9.51	10.80	12.00	13.05	13.95	14.75	15.35	15.80	16.10	16.15
35.0		8.09	9.69	11.20	12.55	13.80	14.90	15.85	16.65	17.30	17.75	17.90
40.0			9.76	11.45	13.05	14.50	15.80	16.95	17.95	18.80	19.45	19.70
45.0			9.73	11.65	13.45	15.10	16.65	18.00	19.25	20.30	21.20	21.50
50.0				11.70	13.75	15.65	17.40	19.05	20.50	21.80	22.90	23.20
55.0				11.65	13.95	16.10	18.10	20.00	21.70	23.20	24.50	25.00
60.0					14.05	16.45	18.75	20.80	22.80	24.60	26.20	
62.0					14.05	16.55	18.95	21.20	23.20	25.10		

Cond °C	Current at 400 V, A											
	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0
10.0	18.53	19.25	20.00	20.70	21.30	21.74	21.95	21.89				
15.0	18.64	19.51	20.41	21.28	22.07	22.72	23.16	23.35	23.21			
20.0	18.71	19.73	20.80	21.86	22.86	23.73	24.41	24.85	24.99	24.76	24.10	
25.0	18.70	19.89	21.15	22.41	23.63	24.74	25.68	26.39	26.82	26.89	26.56	26.30
30.0		19.97	21.43	22.91	24.37	25.73	26.94	27.94	28.67	29.06	29.07	28.96
35.0		19.94	21.61	23.33	25.04	26.67	28.16	29.46	30.51	31.25	31.61	31.64
40.0			21.68	23.65	25.62	27.53	29.33	30.94	32.33	33.41	34.15	34.33
45.0			21.61	23.84	26.09	28.30	30.41	32.36	34.09	35.54	36.66	36.99
50.0				23.88	26.42	28.94	31.38	33.68	35.77	37.61	39.12	39.62
55.0				23.74	26.59	29.44	32.22	34.88	37.35	39.58	41.51	42.18
60.0					26.57	29.76	32.90	35.93	38.80	41.44	43.79	
62.0					26.50	29.83	33.12	36.31	39.34	42.15		

50 Hz

4MI-30X

R404A Dew Point

Cond °C	Suction Mass Flow, g/s											
	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0
10.0	76.40	101.00	131.00	166.50	209.00	259.00	318.00	388.00				
15.0	73.10	98.80	129.00	165.00	208.00	258.00	317.00	386.00	467.00			
20.0	69.00	95.60	126.50	163.00	206.00	256.00	315.00	384.00	464.00	558.00	666.00	
25.0	64.00	91.60	123.50	160.00	203.00	253.00	312.00	381.00	461.00	554.00	662.00	710.00
30.0		86.80	119.00	156.00	199.50	249.00	308.00	376.00	456.00	549.00	657.00	705.00
35.0		81.10	114.00	151.50	194.50	245.00	303.00	370.00	450.00	542.00	651.00	699.00
40.0			108.00	146.00	189.00	239.00	296.00	364.00	443.00	535.00	643.00	692.00
45.0			101.50	139.50	182.50	232.00	289.00	356.00	435.00	527.00	635.00	684.00
50.0				132.00	175.00	224.00	281.00	348.00	426.00	518.00	627.00	676.00
55.0				123.50	167.00	216.00	272.00	338.00	416.00	509.00	619.00	669.00
60.0					158.00	207.00	263.00	329.00	408.00	501.00	613.00	
62.0					154.00	203.00	260.00	326.00	405.00	499.00		

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	4
Displacement @ 50 Hz, m ³ /h	78.2
Bore/Stroke, mm	71.5/56.0
Length/Width, mm	657/501
Height, mm	452
Net Weight, kg	188
Suction, inch	2 1/8
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	75
Sound Power (LT), dBA	86
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	70
Sound Power (MT), dBA	81
Sound Power with Sound Shell (MT), dBA	69
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	46.6
Locked Rotor Current, A	230
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

Adapter Kit	For Parallel Operation
Oil Pressure Switch	OPS2 Electronic Switch
Additional Cooling	70 W Vertical Air Flow Fan
Crankcase Heater	100 W Internal
Sound Attenuation	Sound Shell
Capacity Control	Capacity Steps 50%
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