



Minimum Evaporating Temp. With:

- 20 °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									
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
10.0	30.40	38.10	47.60	58.80	72.00					
15.0	28.80	36.40	45.40	56.20	68.90	83.70				
20.0	27.30	34.50	43.20	53.60	65.70	79.90	96.20			
25.0	25.60	32.60	41.00	50.80	62.40	75.90	91.50	98.40	109.50	119.50
30.0	24.00	30.70	38.60	48.00	59.00	71.80	86.60	93.10	103.50	113.00
35.0	22.30	28.70	36.20	45.10	55.50	67.60	81.60	87.80	97.70	106.50
40.0	20.60	26.70	33.80	42.10	51.90	63.30	76.50	82.30	91.70	100.00
45.0	18.85	24.60	31.30	39.10	48.20	58.90	71.30	76.80	85.60	93.50
50.0		22.50	28.70	36.00	44.50	54.40	66.00	71.10	79.30	86.70
55.0		20.30	26.10	32.80	40.70	49.80	60.50	65.30	72.90	79.90
60.0			23.50	29.60	36.80	45.20	55.00			
62.0			22.40	28.30	35.20	43.30				

50 Hz

4MI-30X

R407A Dew Point

Cond °C	Power, kW									
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
10.0	7.88	8.33	8.65	8.83	8.86					
15.0	8.53	9.10	9.55	9.86	10.05	10.05				
20.0	9.15	9.87	10.45	10.90	11.25	11.40	11.35			
25.0	9.74	10.60	11.35	12.00	12.45	12.75	12.90	12.95	12.90	12.80
30.0	10.25	11.30	12.25	13.05	13.70	14.20	14.50	14.60	14.65	14.65
35.0	10.75	11.95	13.10	14.05	14.90	15.60	16.15	16.30	16.50	16.60
40.0	11.10	12.55	13.90	15.05	16.10	17.00	17.75	18.00	18.30	18.55
45.0	11.40	13.05	14.60	16.00	17.30	18.40	19.40	19.70	20.20	20.50
50.0		13.45	15.25	16.90	18.40	19.75	21.00	21.40	22.00	22.50
55.0		13.75	15.80	17.70	19.45	21.10	22.50	23.10	23.80	24.40
60.0			16.20	18.40	20.40	22.30	24.10			
62.0			16.35	18.65	20.80	22.80				

Cond °C	Current at 400 V, A									
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
10.0	19.74	20.17	20.51	20.71	20.75					
15.0	20.37	20.94	21.41	21.76	21.95	21.95				
20.0	21.02	21.75	22.39	22.92	23.28	23.47	23.44			
25.0	21.65	22.58	23.42	24.15	24.72	25.12	25.30	25.31	25.25	25.12
30.0	22.23	23.39	24.46	25.42	26.24	26.88	27.31	27.42	27.51	27.51
35.0	22.75	24.16	25.50	26.72	27.81	28.72	29.43	29.65	29.91	30.05
40.0	23.16	24.86	26.49	28.01	29.40	30.62	31.64	31.98	32.43	32.73
45.0	23.45	25.47	27.42	29.27	30.98	32.54	33.90	34.38	35.03	35.51
50.0		25.95	28.26	30.46	32.54	34.46	36.19	36.82	37.70	38.36
55.0		26.28	28.97	31.56	34.03	36.35	38.48	39.27	40.39	41.26
60.0			29.54	32.55	35.44	38.18	40.74			
62.0			29.72	32.90	35.97	38.89				

Cond °C	Suction Mass Flow, g/s									
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
10.0	142.50	179.50	225.00	280.00	345.00					
15.0	140.00	177.50	223.00	277.00	342.00	418.00				
20.0	137.50	175.00	220.00	274.00	338.00	414.00	504.00			
25.0	134.50	171.50	217.00	270.00	334.00	410.00	499.00	539.00	604.00	663.00
30.0	131.00	168.50	213.00	266.00	330.00	405.00	493.00	533.00	598.00	656.00
35.0	127.00	164.50	209.00	262.00	324.00	399.00	487.00	526.00	590.00	649.00
40.0	123.00	160.00	204.00	256.00	318.00	392.00	479.00	518.00	583.00	641.00
45.0	118.50	155.50	199.00	250.00	312.00	385.00	471.00	510.00	574.00	632.00
50.0		150.50	193.50	244.00	304.00	376.00	462.00	501.00	564.00	623.00
55.0		145.00	187.00	237.00	296.00	367.00	452.00	491.00	554.00	613.00
60.0			180.50	229.00	288.00	358.00	442.00			
62.0			177.50	226.00	284.00	354.00				

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	4
Displacement @ 50 Hz, m³/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 (MT), dBA	71
Sound Power (MT), dBA	82
Sound Conditions (MT, Temperatures: Evap./Cond./Suction at freq./speed)	-10 / 45 / 20 °C at 50 Hz
Sound Pressure @ 1m (HT), dBA	71
Sound Power (HT), dBA	82
Sound Conditions (HT, Temperatures: Evap./Cond./Suction at freq./speed)	5 / 55 / 20 °C at 50 Hz
High Side PS gauge, bar	32.5
Low Side PS gauge, bar	22.5
Refrigerant's GWP	2107
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

Motor Code	Power Supply	Nominal Voltage, V	Start Connection	DOL Connection	Amps Factor
AWM	380-420 V / 3~ / 50 Hz	400	YY/Y	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	YY/Y	Y	1.73
AWY	500-550 V / 3~ / 50 Hz	525	YY/Y	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	YY/Y	Y	2.19
AWX	380 V / 3~ / 60 Hz	380	YY/Y	Y	1.20
AWD	440-480 V / 3~ / 60 Hz	460	YY/Y	Y	1.00