



Minimum Evaporating Temp. With:

- 20 °C Suction Gas Return ASERCOM certified
- 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								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	31.30	39.70	49.80	61.80	75.90				
15.0	29.70	37.80	47.50	59.10	72.60				
20.0	28.10	35.90	45.20	56.20	69.20	84.30			
25.0	26.50	34.00	42.90	53.40	65.70	80.00	96.60	104.00	
30.0		32.00	40.50	50.40	62.10	75.70	91.40	98.40	109.50
35.0		30.10	38.10	47.40	58.40	71.20	86.10	92.70	103.00
40.0			35.60	44.40	54.70	66.70	80.70	86.80	96.80
45.0			33.20	41.40	51.00	62.20	75.20	81.00	90.30
50.0				38.40	47.30	57.60	69.70	75.00	83.70
55.0					43.50	53.00	64.10	69.10	77.10
60.0					39.90	48.40	58.50	63.10	

50 Hz

4MI-30X

R407F Dew Point

Cond °C	Power, kW								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	8.29	8.79	9.04	8.96	8.46				
15.0	8.91	9.59	10.10	10.30	10.15				
20.0	9.49	10.35	11.05	11.50	11.65	11.40			
25.0	10.05	11.05	11.90	12.65	13.10	13.20	12.85	12.55	
30.0		11.70	12.75	13.70	14.40	14.85	14.85	14.75	14.40
35.0		12.40	13.60	14.70	15.65	16.40	16.75	16.80	16.70
40.0			14.40	15.70	16.85	17.85	18.55	18.75	18.90
45.0			15.25	16.65	18.05	19.30	20.30	20.60	21.00
50.0				17.70	19.25	20.70	22.00	22.40	23.00
55.0					20.40	22.10	23.60	24.20	24.90
60.0					21.60	23.50	25.20	25.90	

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
10.0	20.20	20.70	20.97	20.88	20.30				
15.0	20.79	21.49	22.03	22.27	22.09				
20.0	21.38	22.27	23.06	23.63	23.83	23.53			
25.0	21.99	23.05	24.08	24.95	25.52	25.66	25.24	24.88	
30.0		23.85	25.10	26.25	27.17	27.73	27.79	27.65	27.23
35.0		24.67	26.13	27.55	28.81	29.77	30.30	30.36	30.26
40.0			27.18	28.86	30.44	31.78	32.76	33.03	33.25
45.0			28.27	30.19	32.08	33.79	35.21	35.66	36.19
50.0				31.56	33.74	35.81	37.65	38.28	39.11
55.0					35.43	37.84	40.08	40.90	42.02
60.0					37.17	39.91	42.54	43.53	

50 Hz

4MI-30X

R407F Dew Point

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
10.0	133.50	170.00	214.00	267.00	331.00				
15.0	130.50	167.00	211.00	264.00	327.00				
20.0	128.00	164.00	208.00	260.00	323.00	397.00			
25.0	125.00	161.00	204.00	256.00	318.00	391.00	478.00	517.00	
30.0		157.50	200.00	252.00	312.00	385.00	470.00	509.00	572.00
35.0		154.00	196.50	247.00	306.00	378.00	462.00	500.00	562.00
40.0			192.00	241.00	300.00	370.00	453.00	491.00	552.00
45.0			188.00	236.00	293.00	362.00	443.00	481.00	541.00
50.0				230.00	286.00	353.00	433.00	470.00	530.00
55.0					279.00	344.00	423.00	459.00	518.00
60.0					273.00	336.00	413.00	448.00	

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 (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
Sound Pressure @ 1m (HT), dBA	70
Sound Power (HT), dBA	81
Sound Power with Sound Shell (HT), dBA	69
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	1825
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