



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	39.90	50.70	63.70	79.20	97.40				
15.0	37.70	48.10	60.60	75.30	92.70				
20.0	35.50	45.50	57.30	71.40	87.90	107.00			
25.0	33.40	42.90	54.10	67.40	83.10	101.50	122.50	131.50	
30.0		40.30	50.90	63.50	78.20	95.40	115.50	124.00	138.00
35.0		37.70	47.80	59.50	73.40	89.50	108.00	116.50	129.50
40.0			44.60	55.60	68.50	83.60	101.00	109.00	121.00
45.0			41.60	51.80	63.70	77.70	93.90	101.00	112.50
50.0				48.00	59.00	71.80	86.80	93.50	104.00
55.0					54.30	66.00	79.80	85.90	95.70
60.0					49.80	60.30	72.80	78.30	

50 Hz

4MK-35X

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	10.60	11.30	11.60	11.40	10.60				
15.0	11.45	12.35	13.00	13.25	13.00				
20.0	12.20	13.30	14.30	14.95	15.15	14.75			
25.0	12.95	14.20	15.45	16.45	17.05	17.20	16.65	16.20	
30.0		15.10	16.50	17.80	18.85	19.45	19.50	19.30	18.80
35.0		15.95	17.55	19.10	20.50	21.50	22.10	22.10	22.00
40.0			18.55	20.30	22.00	23.50	24.50	24.80	25.00
45.0			19.60	21.60	23.50	25.30	26.80	27.30	27.80
50.0				22.80	25.00	27.10	28.90	29.60	30.50
55.0					26.40	28.80	31.00	31.90	33.00
60.0					27.90	30.50	33.10	34.00	

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	25.33	26.00	26.35	26.14	25.17				
15.0	26.11	27.07	27.82	28.14	27.80				
20.0	26.90	28.11	29.23	30.03	30.30	29.81			
25.0	27.71	29.15	30.60	31.85	32.67	32.86	32.19	31.63	
30.0		30.19	31.94	33.60	34.95	35.78	35.87	35.64	34.99
35.0		31.27	33.28	35.31	37.16	38.59	39.40	39.49	39.35
40.0			34.63	37.00	39.30	41.31	42.80	43.20	43.55
45.0			36.02	38.69	41.41	43.95	46.08	46.78	47.60
50.0				40.40	43.50	46.53	49.28	50.25	51.52
55.0					45.59	49.08	52.40	53.64	55.34
60.0					47.70	51.61	55.48	56.96	

50 Hz

4MK-35X

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	170.00	217.00	274.00	343.00	425.00				
15.0	166.00	213.00	269.00	337.00	418.00				
20.0	162.00	208.00	264.00	330.00	410.00	504.00			
25.0	157.50	203.00	258.00	324.00	402.00	495.00	605.00	654.00	
30.0		198.50	252.00	317.00	394.00	485.00	593.00	642.00	721.00
35.0		193.50	246.00	310.00	385.00	474.00	580.00	628.00	707.00
40.0			241.00	302.00	376.00	463.00	567.00	614.00	692.00
45.0			235.00	295.00	366.00	452.00	554.00	600.00	676.00
50.0				288.00	357.00	440.00	540.00	585.00	660.00
55.0					348.00	429.00	526.00	570.00	644.00
60.0					341.00	419.00	513.00	556.00	

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	4
Displacement @ 50 Hz, m³/h	99.4
Bore/Stroke, mm	80.6/56.0
Length/Width, mm	688/501
Height, mm	452
Net Weight, kg	202
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 Conditions (MT, Temperatures: Evap./Cond./Suction at freq./speed)	-10 / 45 / 20 °C at 50 Hz
Sound Pressure @ 1m (HT), dBA	72
Sound Power (HT), dBA	83
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	61.1
Locked Rotor Current, A	272
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

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

ACCESSORIES OPTIONAL

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