



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	37.90	47.60	59.30	73.30	89.80					
15.0	36.00	45.40	56.70	70.10	86.00	104.50				
20.0	34.10	43.10	54.00	66.80	82.00	99.60	120.00			
25.0	32.10	40.80	51.20	63.40	77.80	94.60	114.00	122.50	136.50	148.50
30.0	30.10	38.40	48.30	59.90	73.60	89.50	108.00	116.00	129.00	140.50
35.0	28.10	36.00	45.30	56.30	69.20	84.20	101.50	109.50	121.50	132.50
40.0	26.00	33.50	42.30	52.60	64.70	78.80	95.10	102.50	114.00	124.50
45.0	23.90	31.00	39.20	48.80	60.10	73.30	88.60	95.30	106.00	116.00
50.0		28.40	36.10	45.00	55.40	67.70	81.90	88.20	98.30	107.50
55.0		25.80	32.90	41.10	50.70	61.90	75.00	80.90	90.30	98.80
60.0			29.70	37.10	45.90	56.10	68.10			
62.0			28.40	35.60	43.90	53.80				

50 Hz

4MK-35X

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	10.20	10.85	11.40	11.85	12.15					
15.0	11.00	11.80	12.50	13.05	13.50	13.80				
20.0	11.75	12.75	13.60	14.30	14.90	15.40	15.70			
25.0	12.50	13.65	14.70	15.60	16.40	17.05	17.55	17.70	17.85	17.95
30.0	13.20	14.55	15.80	16.95	17.90	18.75	19.45	19.65	19.95	20.20
35.0	13.80	15.40	16.90	18.20	19.45	20.50	21.40	21.70	22.10	22.50
40.0	14.35	16.20	17.90	19.50	20.90	22.20	23.40	23.80	24.40	24.80
45.0	14.75	16.85	18.85	20.70	22.40	24.00	25.40	25.90	26.60	27.20
50.0		17.40	19.65	21.80	23.80	25.60	27.30	28.00	28.90	29.60
55.0		17.80	20.40	22.80	25.10	27.30	29.30	30.00	31.10	31.90
60.0			20.90	23.70	26.30	28.80	31.10			
62.0			21.10	24.00	26.80	29.40				

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	24.87	25.51	26.07	26.53	26.86					
15.0	25.62	26.43	27.17	27.81	28.32	28.66				
20.0	26.42	27.44	28.39	29.24	29.97	30.53	30.91			
25.0	27.23	28.49	29.69	30.80	31.78	32.60	33.24	33.43	33.65	33.76
30.0	28.00	29.55	31.04	32.43	33.71	34.82	35.75	36.07	36.46	36.73
35.0	28.70	30.57	32.38	34.11	35.71	37.16	38.42	38.87	39.47	39.90
40.0	29.28	31.52	33.70	35.78	37.75	39.57	41.21	41.80	42.63	43.25
45.0	29.72	32.35	34.93	37.42	39.79	42.02	44.06	44.82	45.89	46.72
50.0		33.03	36.05	38.98	41.79	44.46	46.95	47.89	49.23	50.28
55.0		33.52	37.01	40.42	43.71	46.86	49.84	50.97	52.60	53.90
60.0			37.78	41.70	45.51	49.18	52.67			
62.0			38.02	42.16	46.19	50.07				

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	177.50	224.00	280.00	349.00	430.00					
15.0	175.00	221.00	278.00	346.00	426.00	522.00				
20.0	172.00	218.00	274.00	342.00	422.00	517.00	629.00			
25.0	168.50	215.00	271.00	337.00	417.00	511.00	622.00	672.00	752.00	826.00
30.0	164.50	211.00	266.00	332.00	411.00	504.00	614.00	664.00	744.00	817.00
35.0	160.00	206.00	261.00	327.00	404.00	497.00	606.00	655.00	734.00	807.00
40.0	155.50	201.00	256.00	320.00	397.00	488.00	596.00	645.00	724.00	796.00
45.0	150.50	196.00	249.00	313.00	389.00	478.00	585.00	633.00	712.00	784.00
50.0		190.00	243.00	305.00	379.00	468.00	574.00	621.00	700.00	771.00
55.0		183.50	236.00	297.00	370.00	457.00	561.00	608.00	686.00	758.00
60.0			228.00	288.00	359.00	445.00	548.00			
62.0			225.00	284.00	355.00	440.00				

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	73
Sound Power (MT), dBA	84
Sound Conditions (MT, Temperatures: Evap./Cond./Suction at freq./speed)	-10 / 45 / 20 °C at 50 Hz
Sound Pressure @ 1m (HT), dBA	73
Sound Power (HT), dBA	84
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	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	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