



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	16.95	22.20	28.80	36.80	46.40	57.80	71.20	86.70				
15.0	15.75	20.90	27.30	35.00	44.20	55.10	67.90	82.70	99.60			
20.0	14.50	19.55	25.70	33.10	41.80	52.20	64.30	78.30	94.40	113.00	133.50	
25.0	13.20	18.10	24.00	31.00	39.30	49.10	60.50	73.80	89.00	106.50	126.00	134.50
30.0		16.55	22.10	28.70	36.60	45.80	56.50	69.00	83.30	99.70	118.50	126.50
35.0		14.95	20.20	26.40	33.70	42.30	52.40	64.00	77.40	92.80	110.50	118.00
40.0			18.25	24.00	30.80	38.80	48.10	58.90	71.30	85.60	102.00	109.00
45.0			16.25	21.50	27.80	35.10	43.60	53.50	65.00	78.30	93.40	100.00
50.0				19.05	24.70	31.30	39.00	48.00	58.50	70.70	84.60	90.70
55.0				16.50	21.50	27.40	34.30	42.40	51.90	62.90	75.60	81.20
60.0					18.35	23.50	29.60	36.70	45.20	55.00	66.50	
62.0					17.05	21.90	27.60	34.40	42.40	51.80		

50 Hz

4MK-35X

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	8.21	9.24	10.25	11.20	12.00	12.60	13.00	13.05				
15.0	8.39	9.57	10.75	11.90	12.90	13.80	14.40	14.75	14.80			
20.0	8.57	9.88	11.20	12.55	13.75	14.85	15.80	16.40	16.75	16.70	16.25	
25.0	8.73	10.15	11.65	13.15	14.55	15.90	17.05	18.00	18.60	18.90	18.80	18.65
30.0		10.40	12.00	13.65	15.30	16.85	18.25	19.45	20.40	21.00	21.20	21.20
35.0		10.60	12.35	14.15	15.95	17.70	19.35	20.80	22.00	22.90	23.50	23.60
40.0			12.60	14.55	16.55	18.45	20.30	22.00	23.50	24.80	25.70	25.90
45.0			12.80	14.90	17.00	19.15	21.20	23.10	24.90	26.40	27.70	28.10
50.0				15.10	17.40	19.70	22.00	24.10	26.10	28.00	29.50	30.00
55.0				15.25	17.70	20.10	22.60	25.00	27.20	29.30	31.20	31.80
60.0					17.85	20.50	23.10	25.70	28.20	30.50	32.60	
62.0					17.90	20.60	23.30	25.90	28.50	31.00		

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	23.12	24.02	24.99	25.95	26.81	27.47	27.85	27.86				
15.0	23.26	24.33	25.52	26.73	27.87	28.86	29.60	30.01	29.99			
20.0	23.40	24.64	26.03	27.49	28.92	30.23	31.33	32.14	32.56	32.50	31.88	
25.0	23.50	24.91	26.52	28.22	29.93	31.56	33.02	34.22	35.07	35.48	35.37	35.15
30.0		25.13	26.94	28.88	30.87	32.81	34.63	36.22	37.50	38.38	38.77	38.77
35.0		25.27	27.27	29.45	31.72	33.98	36.14	38.12	39.83	41.18	42.07	42.28
40.0			27.50	29.92	32.45	35.02	37.54	39.91	42.04	43.84	45.23	45.65
45.0			27.60	30.25	33.05	35.93	38.79	41.54	44.09	46.35	48.24	48.87
50.0				30.42	33.49	36.67	39.87	43.00	45.97	48.69	51.07	51.90
55.0				30.40	33.74	37.22	40.76	44.27	47.65	50.82	53.69	54.73
60.0					33.78	37.56	41.43	45.31	49.11	52.73	56.09	
62.0					33.73	37.63	41.64	45.67	49.62	53.42		

50 Hz

4MK-35X

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	94.10	123.50	160.50	206.00	261.00	327.00	405.00	496.00				
15.0	91.30	121.50	159.00	204.00	259.00	325.00	403.00	494.00	600.00			
20.0	87.80	118.50	156.00	202.00	256.00	322.00	399.00	490.00	596.00	719.00	862.00	
25.0	83.60	115.00	152.50	198.00	253.00	317.00	394.00	484.00	589.00	712.00	856.00	919.00
30.0		110.50	148.00	193.50	247.00	312.00	387.00	477.00	582.00	704.00	847.00	911.00
35.0		105.50	143.00	188.00	241.00	305.00	380.00	468.00	572.00	694.00	837.00	901.00
40.0			137.00	181.50	234.00	296.00	370.00	458.00	561.00	682.00	825.00	889.00
45.0			130.50	174.00	225.00	287.00	359.00	446.00	548.00	669.00	812.00	876.00
50.0				165.50	216.00	276.00	347.00	432.00	533.00	654.00	797.00	862.00
55.0				156.00	205.00	264.00	333.00	417.00	518.00	638.00	782.00	848.00
60.0					194.00	251.00	319.00	401.00	501.00	622.00	769.00	
62.0					189.00	245.00	313.00	395.00	495.00	617.00		

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	4
Displacement @ 50 Hz, m ³ /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 (LT), dBA	74
Sound Power (LT), dBA	85
Sound Power with Sound Shell (LT), dBA	71
Sound Conditions (LT, Temperatures: Evap./Cond./Suction at freq./speed)	-35 / 40 / 20 °C at 50 Hz
Sound Pressure @ 1m (MT), dBA	72
Sound Power (MT), dBA	83
Sound Power with Sound Shell (MT), dBA	71
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	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

<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