



Minimum Evaporating Temp. With:

- 20 °C Suction Gas Return
- 0 °C Suction Gas Return
- 0 °C Suction Gas Return with add cooling
- Maximum Evaporating Temperature

Suction Superheat 10.0K

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	14.85	19.95	26.40	34.20	43.80	55.20	68.60	84.20				
15.0	13.50	18.45	24.70	32.20	41.30	52.20	64.90	79.80	97.00			
20.0	12.05	16.90	22.80	30.00	38.60	48.90	61.10	75.20	91.60	110.50	131.50	
25.0	10.50	15.20	20.80	27.60	35.80	45.50	56.90	70.30	85.80	103.50	124.00	133.00
30.0		13.45	18.75	25.20	32.80	41.90	52.60	65.20	79.90	96.80	116.00	124.50
35.0		11.65	16.65	22.60	29.70	38.10	48.10	59.90	73.70	89.60	108.00	116.00
40.0			14.45	19.95	26.50	34.20	43.50	54.40	67.30	82.20	99.50	107.00
45.0			12.30	17.25	23.20	30.30	38.70	48.80	60.70	74.60	90.80	98.00
50.0				14.55	19.85	26.20	33.90	43.00	53.90	66.80	81.90	88.70
55.0				11.90	16.50	22.10	28.90	37.20	47.10	58.90	72.90	79.10
60.0					13.20	18.05	23.90	31.20	40.10	50.80	63.60	
62.0					11.90	16.40	21.90	28.80	37.20	47.50		

50 Hz

4MKD-35X 100% Loaded

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

4MKD-35X 100% Loaded

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	110.50	145.00	187.00	238.00	298.00	368.00	448.00	539.00				
15.0	106.00	141.50	184.50	236.00	295.00	365.00	445.00	536.00	639.00			
20.0	100.50	137.00	180.50	232.00	292.00	361.00	441.00	532.00	634.00	749.00	877.00	
25.0	93.50	131.50	175.50	227.00	287.00	356.00	435.00	525.00	628.00	743.00	871.00	926.00
30.0		124.50	169.00	221.00	280.00	348.00	427.00	517.00	619.00	734.00	862.00	917.00
35.0		116.50	161.50	213.00	272.00	340.00	418.00	507.00	608.00	723.00	852.00	907.00
40.0			152.50	203.00	262.00	329.00	406.00	495.00	596.00	710.00	840.00	895.00
45.0			142.50	193.00	250.00	317.00	393.00	481.00	581.00	696.00	826.00	882.00
50.0				180.50	237.00	302.00	378.00	465.00	565.00	680.00	811.00	868.00
55.0				167.50	223.00	286.00	360.00	447.00	547.00	662.00	795.00	853.00
60.0					207.00	269.00	342.00	428.00	528.00	645.00	781.00	
62.0					200.00	262.00	335.00	420.00	521.00	639.00		

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	72
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
Digital Modulation	50-100%
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	255
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

Check Valve	For unloaded start operation
Digital Driver	EC3-D23
Adapter Kit	For Parallel Operation
Digital Modulation	50-100 %
Additional Cooling	70 W Vertical Air Flow Fan
Crankcase Heater	100 W Internal
Oil Pressure Switch	OPS2 Electronic Switch
Sound Attenuation	Sound Shell
Mounting Parts	Rubber
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