



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								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	39.40	50.10	63.20	78.90	97.50				
15.0	37.10	47.40	59.90	74.80	92.40				
20.0	35.00	44.70	56.50	70.60	87.30	107.00			
25.0	32.90	42.10	53.30	66.60	82.30	100.50	122.00	131.50	
30.0		39.60	50.10	62.60	77.30	94.60	114.50	123.50	137.50
35.0			47.00	58.60	72.40	88.60	107.50	115.50	129.00
40.0			44.00	54.80	67.60	82.60	100.00	108.00	120.50
45.0				51.00	62.80	76.70	93.00	100.00	112.00
50.0				47.40	58.20	71.00	85.90	92.50	103.50
55.0					53.70	65.30	78.90	85.00	94.90
60.0						59.70	72.00	77.60	

50 Hz

4MKD-35X 100% Loaded

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	10.35	10.90	11.15	10.90	10.00				
15.0	11.25	12.10	12.65	12.85	12.45				
20.0	12.10	13.20	14.05	14.60	14.70	14.25			
25.0	12.90	14.15	15.30	16.25	16.80	16.80	16.20	15.75	
30.0		15.05	16.50	17.75	18.70	19.20	19.15	18.95	18.45
35.0			17.55	19.10	20.40	21.40	21.90	21.90	21.80
40.0			18.60	20.40	22.00	23.40	24.40	24.70	24.90
45.0				21.60	23.60	25.30	26.80	27.30	27.80
50.0				22.80	25.00	27.10	29.00	29.70	30.50
55.0					26.40	28.80	31.10	32.00	33.10
60.0						30.50	33.10	34.10	

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	25.07	25.64	25.88	25.59	24.57				
15.0	25.93	26.80	27.44	27.65	27.23				
20.0	26.79	27.95	28.97	29.66	29.82	29.24			
25.0	27.66	29.07	30.45	31.60	32.32	32.40	31.65	31.07	
30.0		30.18	31.90	33.49	34.74	35.47	35.45	35.20	34.50
35.0			33.30	35.31	37.08	38.42	39.13	39.19	39.00
40.0			34.66	37.06	39.33	41.27	42.68	43.05	43.35
45.0				38.75	41.50	44.02	46.10	46.77	47.55
50.0				40.38	43.58	46.65	49.39	50.35	51.60
55.0					45.57	49.18	52.55	53.79	55.50
60.0						51.59	55.58	57.09	

50 Hz

4MKD-35X 100% Loaded

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	167.50	214.00	272.00	342.00	425.00				
15.0	163.50	209.00	266.00	334.00	416.00				
20.0	159.50	205.00	260.00	327.00	407.00	503.00			
25.0	155.50	199.50	254.00	320.00	398.00	492.00	603.00	653.00	
30.0		195.00	248.00	312.00	389.00	481.00	590.00	639.00	719.00
35.0			242.00	305.00	380.00	469.00	576.00	624.00	703.00
40.0			237.00	298.00	370.00	458.00	562.00	609.00	687.00
45.0				291.00	361.00	446.00	548.00	594.00	670.00
50.0				284.00	353.00	435.00	534.00	579.00	654.00
55.0					344.00	424.00	521.00	565.00	638.00
60.0						414.00	508.00	551.00	

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
High Side PS gauge, bar	32.5
Low Side PS gauge, bar	22.5
Digital Modulation	50-100%
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	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