



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	58.40	73.90	92.80	115.50	142.00				
15.0	55.50	70.50	88.60	110.00	135.50				
20.0	52.70	67.10	84.40	105.00	129.50	157.50			
25.0	49.80	63.60	80.20	99.80	123.00	150.00	181.00	194.50	
30.0		60.20	75.90	94.50	116.50	142.00	171.50	184.50	205.00
35.0		56.70	71.60	89.10	109.50	133.50	161.50	174.00	193.50
40.0			67.20	83.70	103.00	125.50	151.50	163.50	182.00
45.0			63.00	78.30	96.30	117.50	142.00	152.50	170.00
50.0				72.90	89.50	109.00	131.50	142.00	158.00
55.0					82.70	100.50	121.50	131.00	146.00
60.0					76.00	92.30	111.50	120.00	

50 Hz

6MKD-50X 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	16.35	17.35	18.05	18.30	18.00				
15.0	17.65	19.00	20.10	20.70	20.90				
20.0	18.85	20.50	22.00	23.10	23.70	23.90			
25.0	20.00	22.00	23.80	25.30	26.40	27.00	27.10	27.00	
30.0		23.30	25.50	27.40	28.90	30.10	30.70	30.80	30.80
35.0		24.60	27.10	29.40	31.40	33.00	34.20	34.50	34.80
40.0			28.60	31.30	33.70	35.80	37.50	38.10	38.70
45.0			30.00	33.10	35.90	38.50	40.70	41.50	42.50
50.0				34.80	38.10	41.10	43.80	44.80	46.20
55.0					40.10	43.60	46.80	48.00	49.70
60.0					42.10	46.00	49.70	51.10	

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	42.28	43.27	43.96	44.20	43.83				
15.0	43.52	44.87	45.99	46.72	46.92				
20.0	44.75	46.46	48.02	49.27	50.04	50.19			
25.0	45.94	48.04	50.04	51.80	53.17	53.98	54.07	53.87	
30.0		49.57	52.04	54.33	56.29	57.76	58.59	58.71	58.63
35.0		51.06	53.99	56.81	59.38	61.53	63.11	63.55	63.96
40.0			55.88	59.25	62.44	65.28	67.61	68.37	69.29
45.0			57.70	61.63	65.44	68.98	72.08	73.16	74.59
50.0				63.92	68.37	72.61	76.49	77.91	79.85
55.0					71.21	76.17	80.84	82.59	85.05
60.0					73.95	79.64	85.10	87.19	

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	249.00	316.00	399.00	499.00	619.00				
15.0	244.00	312.00	394.00	493.00	611.00				
20.0	240.00	307.00	388.00	486.00	603.00	742.00			
25.0	235.00	302.00	382.00	479.00	595.00	732.00	895.00	968.00	
30.0		296.00	376.00	471.00	585.00	721.00	881.00	954.00	1071.00
35.0		291.00	369.00	463.00	575.00	709.00	867.00	939.00	1055.00
40.0			362.00	454.00	565.00	696.00	852.00	923.00	1038.00
45.0			356.00	446.00	553.00	682.00	836.00	906.00	1020.00
50.0				437.00	542.00	668.00	819.00	888.00	1001.00
55.0					531.00	654.00	802.00	870.00	981.00
60.0					520.00	640.00	786.00	853.00	

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	6
Displacement @ 50 Hz, m³/h	153
Bore/Stroke, mm	80.6/57.5
Length/Width, mm	773/547
Height, mm	450
Net Weight, kg	236
Suction, inch	2 5/8
Discharge, inch	1 5/8
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	76
Sound Power (MT), dBA	87
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	33-100%
Refrigerant's GWP	1825
Refrigerant's classification	A1

COMPRESSOR ELECTRICAL DATA (380-420 V / 3~ / 50 Hz)

Maximum Operating Current, A	92.9
Locked Rotor Current, A	393
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

CoreSense Protection (-P)	Motor protection
Mounting Parts	Spring
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
Mounting Parts	Rubber
Digital Modulation	33-66%
Adapter Kit	For Parallel Operation
Digital Driver	EC3-D23
Oil Pressure Switch	OPS2 Electronic Switch
Additional Cooling	70 W Vertical Air Flow Fan
Crankcase Heater	100 W Internal
Sound Attenuation	Sound Shell
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
AWX	380 V / 3~ / 60 Hz	380	YYY	Y	1.20
AWD	440-480 V / 3~ / 60 Hz	460	YYY	Y	1.00