



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	55.20	69.40	86.50	107.00	131.00					
15.0	52.90	66.70	83.30	103.00	126.00	153.50				
20.0	50.40	63.80	79.80	98.80	121.00	147.00	177.50			
25.0	47.80	60.70	76.10	94.30	115.50	140.50	169.50	182.00	202.00	221.00
30.0	45.10	57.50	72.20	89.60	110.00	133.50	161.00	173.00	192.50	210.00
35.0	42.20	54.10	68.10	84.60	104.00	126.50	152.50	164.00	182.50	199.00
40.0	39.20	50.60	63.90	79.40	97.60	119.00	143.50	154.00	171.50	187.50
45.0	36.10	46.90	59.40	74.00	91.10	111.00	134.00	144.00	160.50	175.50
50.0		43.10	54.80	68.40	84.30	103.00	124.50	134.00	149.50	163.00
55.0		39.30	50.10	62.70	77.30	94.50	114.50	123.50	137.50	150.50
60.0			45.20	56.70	70.10	85.80	104.00			
62.0			43.20	54.30	67.20	82.30				

50 Hz

6MK-50X

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	15.45	16.40	17.00	17.20	16.90					
15.0	16.70	18.00	19.00	19.65	19.85	19.50				
20.0	17.90	19.50	20.90	21.90	22.60	22.80	22.40			
25.0	19.00	20.90	22.60	24.10	25.30	26.00	26.20	26.10	25.80	25.30
30.0	20.00	22.20	24.30	26.20	27.80	29.00	29.80	29.90	30.00	29.90
35.0	20.90	23.40	25.80	28.10	30.10	31.80	33.20	33.60	34.00	34.20
40.0	21.70	24.40	27.20	29.80	32.30	34.50	36.40	37.00	37.80	38.30
45.0	22.40	25.40	28.40	31.40	34.30	37.00	39.40	40.20	41.30	42.20
50.0		26.20	29.50	32.90	36.20	39.30	42.20	43.20	44.70	45.80
55.0		26.80	30.40	34.10	37.80	41.40	44.70	46.00	47.80	49.20
60.0			31.20	35.20	39.20	43.20	47.10			
62.0			31.40	35.50	39.70	43.90				

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	41.50	42.39	43.01	43.21	42.86					
15.0	42.61	43.84	44.88	45.58	45.79	45.38				
20.0	43.74	45.33	46.79	47.99	48.78	49.02	48.57			
25.0	44.87	46.82	48.71	50.42	51.80	52.69	52.97	52.87	52.47	51.89
30.0	45.95	48.26	50.60	52.82	54.79	56.35	57.36	57.58	57.68	57.53
35.0	46.94	49.63	52.41	55.16	57.72	59.95	61.71	62.24	62.84	63.14
40.0	47.81	50.87	54.11	57.38	60.55	63.45	65.96	66.82	67.93	68.66
45.0	48.50	51.95	55.65	59.46	63.23	66.82	70.09	71.28	72.89	74.07
50.0		52.83	57.00	61.35	65.74	70.02	74.05	75.57	77.69	79.32
55.0		53.46	58.11	63.01	68.02	73.00	77.81	79.65	82.29	84.37
60.0			58.94	64.39	70.04	75.72	81.31			
62.0			59.19	64.87	70.76	76.73				

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	259.00	327.00	409.00	508.00	627.00					
15.0	257.00	325.00	408.00	507.00	626.00	767.00				
20.0	254.00	323.00	406.00	505.00	623.00	764.00	929.00			
25.0	251.00	320.00	402.00	502.00	619.00	759.00	924.00	997.00	1117.00	1226.00
30.0	246.00	315.00	398.00	497.00	614.00	753.00	917.00	990.00	1110.00	1219.00
35.0	241.00	310.00	393.00	491.00	607.00	745.00	908.00	982.00	1101.00	1210.00
40.0	235.00	304.00	386.00	483.00	599.00	736.00	898.00	971.00	1090.00	1199.00
45.0	228.00	297.00	378.00	474.00	589.00	725.00	886.00	958.00	1077.00	1186.00
50.0		289.00	369.00	464.00	577.00	711.00	871.00	944.00	1062.00	1171.00
55.0		279.00	359.00	452.00	564.00	696.00	855.00	927.00	1045.00	1154.00
60.0			347.00	439.00	549.00	680.00	837.00			
62.0			342.00	434.00	542.00	673.00				

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	230
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	77
Sound Power (MT), dBA	88
Sound Conditions (MT, Temperatures: Evap./Cond./Suction at freq./speed)	-10 / 45 / 20 °C at 50 Hz
Sound Pressure @ 1m (HT), dBA	77
Sound Power (HT), dBA	88
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	92.9
Locked Rotor Current, A	416
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

Adapter Kit	For Parallel Operation
Check Valve	For unloaded start operation
Capacity Control	Capacity Steps 67/33 %
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
Digital Modulation	33-100 %
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
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