



Minimum Evaporating Temp. With:

- 20 °C Suction Gas Return
- Maximum Evaporating Temperature

Suction Return Temperature 18.3°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	15.0
10.0	41.90	52.50	65.40	80.90	99.10						
15.0	40.10	50.40	62.90	77.80	95.40	116.00	140.00				
20.0	38.10	48.20	60.30	74.60	91.50	111.00	134.00	144.00	160.00		
25.0	36.00	45.80	57.50	71.20	87.30	106.00	128.00	137.50	153.00	166.50	
30.0	33.80	43.30	54.50	67.60	83.00	101.00	121.50	130.50	145.00	158.50	
35.0	31.50	40.70	51.40	63.90	78.40	95.30	115.00	123.50	137.50	150.00	
40.0	29.10	37.90	48.10	59.90	73.70	89.60	108.00	116.00	129.50	141.00	
45.0	26.60	35.10	44.70	55.90	68.80	83.70	101.00	108.50	121.00	132.00	
50.0		32.10	41.20	51.60	63.70	77.60	93.80	101.00	112.50	122.50	
55.0		29.00	37.60	47.30	58.40	71.40	86.30	92.90	103.50	113.00	
60.0			33.80	42.80	53.00	64.90	78.60	84.70	94.60	103.50	

50 Hz

6MI-40

R407C 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	15.0
10.0	11.30	12.15	12.90	13.55	14.15						
15.0	12.15	13.15	14.00	14.80	15.45	16.00	16.45				
20.0	13.05	14.15	15.20	16.10	16.90	17.55	18.10	18.25	18.50		
25.0	13.85	15.20	16.40	17.50	18.45	19.25	19.90	20.10	20.40	20.60	
30.0	14.65	16.20	17.60	18.90	20.00	21.00	21.80	22.10	22.50	22.80	
35.0	15.30	17.15	18.80	20.30	21.70	22.90	23.90	24.30	24.80	25.10	
40.0	15.80	17.95	19.95	21.70	23.40	24.80	26.10	26.50	27.10	27.60	
45.0	16.15	18.65	21.00	23.10	25.00	26.70	28.30	28.80	29.60	30.10	
50.0		19.20	21.90	24.30	26.60	28.60	30.50	31.10	32.10	32.80	
55.0		19.55	22.60	25.50	28.10	30.50	32.70	33.50	34.60	35.50	
60.0			23.20	26.40	29.50	32.30	34.80	35.80	37.10	38.20	

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	15.0
10.0	29.97	30.66	31.36	32.05	32.67						
15.0	30.74	31.57	32.41	33.22	33.96	34.59	35.07				
20.0	31.56	32.60	33.63	34.62	35.52	36.30	36.91	37.11	37.33		
25.0	32.38	33.68	34.96	36.18	37.30	38.29	39.10	39.37	39.70	39.90	
30.0	33.15	34.77	36.36	37.87	39.27	40.51	41.57	41.93	42.40	42.72	
35.0	33.83	35.82	37.77	39.62	41.35	42.92	44.28	44.76	45.40	45.86	
40.0	34.36	36.78	39.14	41.40	43.52	45.46	47.18	47.80	48.65	49.27	
45.0	34.69	37.60	40.44	43.15	45.71	48.08	50.22	51.00	52.09	52.91	
50.0		38.24	41.59	44.82	47.88	50.73	53.34	54.31	55.67	56.71	
55.0		38.63	42.57	46.36	49.98	53.37	56.51	57.68	59.34	60.64	
60.0			43.31	47.73	51.95	55.94	59.66	61.06	63.07	64.64	

50 Hz

6MI-40

R407C 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	12.5	15.0
10.0	185.50	233.00	292.00	363.00	447.00						
15.0	183.50	232.00	290.00	361.00	445.00	545.00	663.00				
20.0	180.50	229.00	288.00	359.00	442.00	542.00	659.00	711.00	796.00		
25.0	177.00	226.00	285.00	355.00	438.00	537.00	653.00	705.00	790.00	867.00	
30.0	173.00	222.00	281.00	351.00	434.00	531.00	647.00	698.00	782.00	859.00	
35.0	168.00	218.00	276.00	346.00	428.00	524.00	638.00	690.00	773.00	849.00	
40.0	162.00	212.00	271.00	339.00	420.00	516.00	629.00	680.00	762.00	838.00	
45.0	155.50	206.00	264.00	332.00	412.00	506.00	618.00	668.00	750.00	825.00	
50.0		198.50	256.00	323.00	402.00	495.00	606.00	655.00	736.00	811.00	
55.0		190.00	247.00	314.00	391.00	483.00	592.00	641.00	721.00	795.00	
60.0			237.00	303.00	379.00	469.00	576.00	624.00	704.00	777.00	

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	6
Displacement @ 50 Hz, m ³ /h	121
Bore/Stroke, mm	71.5/57.5
Length/Width, mm	695/547
Height, mm	450
Net Weight, kg	219
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
Sound Pressure @ 1m (HT), dBA	72
Sound Power (HT), dBA	83
Sound Conditions (HT, Temperatures: Evap./Cond./Suction at freq./speed)	5 / 50 / 15 °C at 50 Hz
High Side PS gauge, bar	32.5
Low Side PS gauge, bar	22.5
Refrigerant's GWP	1774
Refrigerant's classification	A1

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

Maximum Operating Current, A	71.4
Locked Rotor Current, A	321
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

Additional Cooling	70 W Vertical Air Flow Fan
Capacity Control	Capacity Steps 67/33 %
Crankcase Heater	100 W Internal
Oil Pressure Switch	OPS2 Electronic Switch
Adapter Kit	For Parallel Operation
Check Valve	For unloaded start operation
Sound Attenuation	Sound Shell
Mounting Parts	Rubber
Digital Modulation	33-100 %
Discharge Shut-off	Angle valve
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