



Minimum Evaporating Temp. With:

- 20 K Suction Superheat
- 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								
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0
10.0	22.70	30.10	39.40	50.90	64.70	81.20	100.50	122.50	
15.0	21.50	28.60	37.50	48.50	61.60	77.20	95.60	117.00	
20.0	20.30	27.10	35.60	46.00	58.50	73.30	90.70	111.00	
25.0		25.60	33.70	43.50	55.30	69.40	85.80	105.00	127.00
30.0		24.00	31.70	41.00	52.20	65.40	80.90	99.00	120.00
35.0			29.70	38.50	48.90	61.40	76.00	93.00	112.50
40.0			27.70	35.90	45.70	57.30	71.00	86.90	105.50
45.0				33.30	42.40	53.30	66.00	80.80	98.00
50.0					39.10	49.10	60.90	74.70	90.70
55.0					35.80	45.00	55.80	68.50	83.30
60.0						40.80	50.70	62.30	
62.0						39.10	48.60	59.80	

50 Hz

6MT-35X

R407A Dew Point

Cond °C	Power, kW								
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0
10.0	10.15	11.60	12.90	14.00	14.75	15.05	14.70	13.60	
15.0	10.60	12.15	13.70	15.10	16.25	17.00	17.20	16.70	
20.0	11.00	12.70	14.40	16.10	17.60	18.75	19.50	19.60	
25.0		13.15	15.05	17.00	18.80	20.40	21.60	22.20	22.30
30.0		13.60	15.65	17.80	19.90	21.80	23.50	24.70	25.30
35.0			16.20	18.55	20.90	23.20	25.30	27.00	28.20
40.0			16.75	19.25	21.90	24.50	26.90	29.10	30.90
45.0				19.95	22.80	25.70	28.50	31.10	33.40
50.0					23.70	26.80	30.00	33.00	35.80
55.0					24.60	27.90	31.40	34.90	38.10
60.0						29.10	32.80	36.60	
62.0						29.50	33.40	37.30	

Cond °C	Current at 400 V, A								
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0
10.0	24.62	26.16	27.69	29.01	29.91	30.21	29.70	28.18	
15.0	25.07	26.77	28.57	30.27	31.68	32.60	32.83	32.17	
20.0	25.51	27.33	29.37	31.44	33.33	34.84	35.78	35.96	
25.0		27.87	30.13	32.52	34.86	36.94	38.57	39.55	39.68
30.0		28.40	30.84	33.54	36.31	38.93	41.22	42.98	44.00
35.0			31.54	34.52	37.68	40.82	43.74	46.25	48.14
40.0			32.25	35.48	39.00	42.63	46.15	49.38	52.11
45.0				36.42	40.29	44.37	48.47	52.40	55.95
50.0					41.56	46.07	50.73	55.32	59.65
55.0					42.83	47.75	52.92	58.15	63.25
60.0						49.42	55.09	60.93	
62.0						50.09	55.95	62.03	

Cond °C	Suction Mass Flow, g/s								
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0
10.0	106.00	140.50	184.50	239.00	305.00	384.00	477.00	587.00	
15.0	103.50	138.00	181.50	235.00	301.00	378.00	471.00	579.00	
20.0	101.50	136.00	179.00	232.00	296.00	373.00	464.00	571.00	
25.0		133.00	175.50	228.00	291.00	367.00	456.00	562.00	685.00
30.0		130.50	172.50	224.00	286.00	360.00	449.00	553.00	675.00
35.0			169.00	219.00	281.00	354.00	441.00	543.00	664.00
40.0			165.00	215.00	275.00	347.00	432.00	533.00	652.00
45.0				210.00	269.00	339.00	423.00	522.00	640.00
50.0					262.00	331.00	413.00	511.00	627.00
55.0					255.00	322.00	403.00	500.00	614.00
60.0						313.00	392.00	487.00	
62.0						310.00	388.00	483.00	

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	6
Displacement @ 50 Hz, m³/h	135
Bore/Stroke, mm	75.7/57.5
Length/Width, mm	725/547
Height, mm	450
Net Weight, kg	221
Suction, inch	2 1/8
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 (LT), dBA	79
Sound Power (LT), dBA	90
Sound Conditions (LT, Temperatures: Evap./Cond./Suction at freq./speed)	-35 / 40 / 20 °C at 50 Hz
Sound Pressure @ 1m (MT), dBA	74
Sound Power (MT), dBA	85
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
Refrigerant's GWP	2107
Refrigerant's classification	A1

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

Maximum Operating Current, A	67.3
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
Mounting Parts	Rubber
Adapter Kit	For Parallel Operation
Additional Cooling	70 W Vertical Air Flow Fan
Capacity Control	Capacity Steps 67/33 %
Oil Pressure Switch	OPS2 Electronic Switch
Crankcase Heater	100 W Internal
Sound Attenuation	Sound Shell
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	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