



Minimum Evaporating Temp. With:

— 20 K Suction Superheat
 — 20 °C Suction Gas Return
 — 0 °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									
	-50.0	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
5.0	18.35	24.20	31.70	41.10	52.40	65.90	81.90			
10.0	17.25	23.00	30.20	39.10	50.00	62.90	78.10	95.90	116.00	
15.0	16.10	21.60	28.60	37.10	47.40	59.70	74.20	91.10	110.50	133.00
20.0	14.90	20.20	26.80	34.90	44.70	56.40	70.10	86.10	104.50	125.50
25.0		18.75	25.00	32.70	41.90	52.90	65.90	81.00	98.50	118.50
30.0			23.10	30.30	39.00	49.30	61.50	75.70	92.10	111.00
35.0			21.20	27.90	35.90	45.50	56.90	70.20	85.60	103.50
40.0				25.40	32.80	41.70	52.20	64.50	78.80	95.40
45.0				22.80	29.60	37.70	47.40	58.70	72.00	87.30
50.0					26.30	33.70	42.40	52.80	64.90	79.10
55.0					23.00	29.60	37.40	46.70	57.70	70.60
60.0						25.40	32.30	40.60	50.40	
62.0						23.70	30.20	38.10	47.50	

50 Hz

6MT-35

R404A Dew Point

Cond °C	Power, kW									
	-50.0	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
5.0	8.86	10.20	11.45	12.60	13.50	14.15	14.45			
10.0	9.33	10.80	12.30	13.65	14.80	15.75	16.35	16.60	16.35	
15.0	9.68	11.35	12.95	14.55	16.00	17.20	18.15	18.70	18.90	18.55
20.0	9.91	11.70	13.55	15.35	17.00	18.55	19.80	20.70	21.30	21.40
25.0		12.00	14.00	16.00	17.95	19.75	21.30	22.60	23.60	24.10
30.0			14.35	16.60	18.75	20.80	22.70	24.40	25.70	26.60
35.0			14.60	17.05	19.50	21.80	24.10	26.00	27.80	29.10
40.0				17.45	20.10	22.70	25.30	27.60	29.70	31.50
45.0				17.75	20.70	23.60	26.40	29.10	31.50	33.70
50.0					21.10	24.30	27.40	30.50	33.30	35.90
55.0					21.50	25.00	28.40	31.80	35.00	38.00
60.0						25.60	29.40	33.10	36.60	
62.0						25.80	29.70	33.50	37.30	

Cond °C	Current at 400 V, A									
	-50.0	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
5.0	23.70	24.97	26.31	27.62	28.79	29.72	30.31			
10.0	24.18	25.63	27.20	28.79	30.29	31.60	32.62	33.25	33.37	
15.0	24.55	26.18	27.98	29.85	31.69	33.39	34.85	35.96	36.63	36.74
20.0	24.80	26.61	28.65	30.81	32.99	35.08	36.98	38.59	39.80	40.51
25.0		26.93	29.21	31.67	34.19	36.68	39.03	41.13	42.89	44.20
30.0			29.67	32.42	35.29	38.18	40.98	43.59	45.90	47.82
35.0			30.00	33.06	36.28	39.58	42.83	45.95	48.82	51.35
40.0				33.59	37.17	40.88	44.59	48.23	51.66	54.81
45.0				34.01	37.96	42.08	46.26	50.41	54.42	58.18
50.0					38.64	43.18	47.83	52.50	57.08	61.47
55.0					39.22	44.18	49.31	54.51	59.66	64.68
60.0						45.08	50.69	56.41	62.16	
62.0						45.41	51.21	57.15	63.13	

Cond °C	Suction Mass Flow, g/s									
	-50.0	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
5.0	98.50	130.50	171.00	222.00	284.00	359.00	449.00			
10.0	96.30	128.50	169.50	220.00	282.00	357.00	446.00	550.00	672.00	
15.0	93.70	126.00	167.00	218.00	279.00	353.00	441.00	545.00	667.00	808.00
20.0	90.60	123.50	164.00	214.00	275.00	349.00	436.00	539.00	660.00	801.00
25.0		120.00	160.50	210.00	271.00	343.00	430.00	532.00	652.00	793.00
30.0			156.00	205.00	265.00	337.00	422.00	524.00	643.00	783.00
35.0			151.00	199.50	258.00	329.00	414.00	514.00	633.00	772.00
40.0				193.00	251.00	320.00	403.00	503.00	621.00	760.00
45.0				185.50	242.00	310.00	392.00	490.00	607.00	746.00
50.0					232.00	299.00	379.00	476.00	592.00	731.00
55.0					221.00	286.00	365.00	461.00	576.00	715.00
60.0						272.00	350.00	445.00	561.00	
62.0						267.00	344.00	439.00	555.00	

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	6
Displacement @ 50 Hz, m ³ /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	77
Sound Power (LT), dBA	88
Sound Power with Sound Shell (LT), dBA	74
Sound Conditions (LT, Temperatures: Evap./Cond./Suction at freq./speed)	-35 / 40 / 20 °C at 50 Hz
Sound Pressure @ 1m (MT), dBA	73
Sound Power (MT), dBA	84
Sound Power with Sound Shell (MT), dBA	72
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	3922
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

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 %
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