



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	14.15	18.85	24.80	32.20	41.10	51.70	64.20	78.60	
15.0	13.40	17.90	23.50	30.50	39.00	49.00	60.80	74.50	
20.0	12.60	16.90	22.30	28.90	36.90	46.40	57.50	70.40	
25.0		15.95	21.00	27.30	34.80	43.70	54.20	66.50	80.50
30.0		14.95	19.80	25.70	32.80	41.20	51.00	62.50	75.80
35.0			18.55	24.10	30.70	38.60	47.90	58.60	71.10
40.0			17.30	22.50	28.70	36.10	44.70	54.80	66.40
45.0				20.90	26.70	33.50	41.50	50.90	61.80
50.0					24.60	30.90	38.40	47.10	57.20
55.0					22.50	28.40	35.20	43.30	52.60
60.0						25.80	32.10	39.40	
62.0						24.70	30.80	37.90	

50 Hz

4MT-22X

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	6.45	7.36	8.20	8.93	9.52	9.92	10.10	10.00	
15.0	6.80	7.83	8.80	9.68	10.45	11.05	11.40	11.55	
20.0	7.11	8.25	9.36	10.40	11.35	12.10	12.70	13.10	
25.0		8.63	9.87	11.05	12.20	13.15	14.00	14.60	14.95
30.0		8.95	10.35	11.70	13.00	14.15	15.20	16.05	16.70
35.0			10.75	12.25	13.75	15.15	16.40	17.50	18.35
40.0			11.10	12.80	14.45	16.05	17.50	18.85	20.00
45.0				13.25	15.10	16.90	18.60	20.20	21.60
50.0					15.70	17.70	19.65	21.50	23.20
55.0					16.20	18.45	20.60	22.70	24.70
60.0						19.10	21.50	23.90	
62.0						19.35	21.90	24.30	

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	16.10	17.05	17.99	18.84	19.53	20.00	20.17	19.98	
15.0	16.47	17.54	18.64	19.68	20.60	21.34	21.81	21.95	
20.0	16.80	18.01	19.27	20.52	21.68	22.68	23.47	23.96	
25.0		18.44	19.88	21.34	22.74	24.03	25.14	25.98	26.51
30.0		18.83	20.45	22.13	23.79	25.37	26.81	28.02	28.94
35.0			20.96	22.87	24.80	26.69	28.46	30.04	31.38
40.0			21.41	23.56	25.77	27.97	30.08	32.05	33.80
45.0				24.18	26.68	29.19	31.67	34.03	36.21
50.0					27.51	30.36	33.20	35.96	38.58
55.0					28.26	31.45	34.67	37.84	40.91
60.0						32.45	36.05	39.65	
62.0						32.83	36.58	40.35	

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	66.00	88.00	116.00	151.00	193.50	245.00	305.00	376.00	
15.0	64.50	86.40	114.00	148.50	190.00	240.00	300.00	369.00	
20.0	63.00	84.70	112.00	145.50	186.50	236.00	294.00	363.00	
25.0		83.00	110.00	143.00	183.00	231.00	288.00	356.00	435.00
30.0		81.20	108.00	140.50	179.50	227.00	283.00	349.00	427.00
35.0			105.50	137.50	176.00	222.00	278.00	343.00	419.00
40.0			103.00	134.50	172.50	218.00	272.00	336.00	411.00
45.0				131.50	168.50	213.00	266.00	329.00	404.00
50.0					164.50	208.00	260.00	322.00	396.00
55.0					160.50	203.00	254.00	315.00	388.00
60.0						198.00	248.00	309.00	
62.0						195.50	246.00	306.00	

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	4
Displacement @ 50 Hz, m³/h	87.7
Bore/Stroke, mm	75.7/56.0
Length/Width, mm	657/501
Height, mm	452
Net Weight, kg	183
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 (LT), dBA	75
Sound Power (LT), dBA	86
Sound Conditions (LT, Temperatures: Evap./Cond./Suction at freq./speed)	-35 / 40 / 20 °C at 50 Hz
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
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	44.5
Locked Rotor Current, A	175
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

Adapter Kit	For Parallel Operation
Check Valve	For unloaded start operation
Capacity Control	Capacity Steps 50%
Mounting Parts	Rubber
Additional Cooling	70 W Vertical Air Flow Fan
Crankcase Heater	100 W Internal
Oil Pressure Switch	OPS2 Electronic Switch
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	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
AWC	208-230 V / 3~ / 60 Hz	230	YY/Y	Y	2.19
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