



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	25.30	31.20	38.20	46.60	56.50					
15.0	24.00	29.80	36.60	44.80	54.30	65.30				
20.0	22.70	28.30	35.00	42.80	52.00	62.60	74.80			
25.0	21.40	26.80	33.30	40.80	49.60	59.80	71.50	76.60		
30.0	20.00	25.30	31.50	38.70	47.20	56.90	68.10	73.00	80.90	88.00
35.0	18.60	23.70	29.70	36.60	44.70	54.00	64.70	69.40	76.90	83.60
40.0	17.15	22.10	27.80	34.50	42.20	51.00	61.20	65.70	72.80	79.30
45.0		20.50	26.00	32.30	39.60	48.00	57.70	61.90	68.70	74.80
50.0			24.10	30.10	37.00	44.90	54.10	58.10	64.50	70.30
55.0				27.80	34.30	41.80	50.40	54.20	60.30	65.70
60.0					31.70	38.70	46.80	50.30	56.00	61.10
62.0					30.60	37.40	45.30	48.70	54.30	59.30

50 Hz

4MA-22X

R22

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	5.70	5.94	6.03	5.93	5.61					
15.0	6.26	6.64	6.89	6.96	6.83	6.46				
20.0	6.80	7.31	7.70	7.94	8.00	7.83	7.40			
25.0	7.30	7.95	8.49	8.89	9.11	9.14	8.93	8.77		
30.0	7.78	8.55	9.22	9.78	10.20	10.40	10.40	10.30	10.10	9.88
35.0	8.22	9.11	9.92	10.65	11.20	11.60	11.80	11.80	11.75	11.60
40.0	8.64	9.63	10.55	11.45	12.15	12.70	13.10	13.20	13.25	13.25
45.0		10.10	11.20	12.15	13.05	13.80	14.35	14.55	14.70	14.80
50.0			11.75	12.85	13.90	14.80	15.55	15.80	16.10	16.30
55.0				13.50	14.70	15.75	16.65	17.00	17.40	17.70
60.0					15.40	16.60	17.70	18.10	18.65	19.05
62.0					15.65	16.95	18.10	18.55	19.10	19.55

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	16.01	16.22	16.31	16.24	15.97					
15.0	16.53	16.86	17.08	17.15	17.03	16.66				
20.0	17.05	17.51	17.87	18.10	18.13	17.94	17.48			
25.0	17.55	18.16	18.68	19.07	19.28	19.28	19.01	18.82		
30.0	18.03	18.80	19.49	20.06	20.46	20.66	20.60	20.50	20.25	19.95
35.0	18.48	19.42	20.30	21.06	21.67	22.08	22.24	22.23	22.12	21.94
40.0	18.89	20.02	21.10	22.07	22.89	23.53	23.93	24.02	24.06	24.00
45.0		20.59	21.88	23.07	24.13	25.00	25.66	25.84	26.04	26.12
50.0			22.63	24.06	25.36	26.49	27.41	27.71	28.07	28.29
55.0				25.03	26.59	27.99	29.18	29.59	30.13	30.50
60.0					27.80	29.48	30.97	31.50	32.22	32.74
62.0					28.28	30.08	31.68	32.26	33.06	33.64

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	118.50	147.00	181.00	221.00	270.00					
15.0	116.00	144.50	178.50	219.00	267.00	323.00				
20.0	113.00	141.50	175.50	216.00	263.00	319.00	385.00			
25.0	110.00	138.50	172.00	212.00	260.00	315.00	380.00	409.00		
30.0	106.00	135.00	168.50	208.00	255.00	310.00	374.00	403.00	449.00	491.00
35.0	102.00	131.00	164.50	204.00	251.00	305.00	369.00	397.00	443.00	484.00
40.0	97.80	126.50	160.00	199.50	245.00	299.00	362.00	390.00	436.00	477.00
45.0		122.00	155.50	194.50	240.00	293.00	355.00	383.00	428.00	469.00
50.0			150.00	188.50	234.00	286.00	348.00	375.00	420.00	461.00
55.0				182.50	227.00	279.00	340.00	367.00	411.00	451.00
60.0					220.00	271.00	331.00	358.00	402.00	442.00
62.0					217.00	268.00	328.00	354.00	398.00	438.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	4
Displacement @ 50 Hz, m³/h	61.7
Bore/Stroke, mm	63.5/56.0
Length/Width, mm	638/501
Height, mm	452
Net Weight, kg	177
Suction, inch	1 5/8
Discharge, inch	1 1/8
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	68
Sound Power (MT), dBA	79
Sound Conditions (MT, Temperatures: Evap./Cond./Suction at freq./speed)	-10 / 45 / 20 °C at 50 Hz
Sound Pressure @ 1m (HT), dBA	68
Sound Power (HT), dBA	79
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	1810
Refrigerant's classification	A1

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

Maximum Operating Current, A	36.3
Locked Rotor Current, A	175
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

Oil Pressure Switch (-P)	OPS2 Sensor
Mounting Parts	Spring
CoreSense Protection (-P)	Motor protection
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
Capacity Control	Capacity Steps 50%
Check Valve	For unloaded start operation
Mounting Parts	Rubber
Additional Cooling	70 W Vertical Air Flow Fan
Crankcase Heater	100 W Internal
Sound Attenuation	Sound Shell
Oil Pressure Switch	OPS2 Electronic Switch
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