



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

50 Hz

4MT-22X

R134a

Cond °C	Cooling Capacity, kW							
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	26.50	33.60	42.30					
15.0	25.20	32.00	40.30	50.30				
20.0	23.90	30.50	38.40	47.80	59.00			
25.0	22.70	28.90	36.40	45.40	56.00	68.40	73.90	
30.0	21.50	27.40	34.50	43.00	53.00	64.70	69.80	78.20
35.0	20.30	25.90	32.60	40.60	50.00	61.00	65.80	73.70
40.0	19.10	24.40	30.70	38.10	46.90	57.30	61.80	69.20
45.0	17.90	22.90	28.80	35.70	43.90	53.50	57.80	64.70
50.0	16.70	21.40	26.90	33.30	40.90	49.80	53.80	60.20
55.0	15.45	19.85	24.90	30.90	37.90	46.10	49.80	55.70
60.0		18.30	23.00	28.40	34.80	42.30	45.70	51.10
65.0			21.00	26.00	31.70	38.60	41.60	46.60
70.0			19.05	23.50	28.60	34.70	37.50	41.90
75.0				20.90	25.50	30.90	33.30	37.30
80.0				18.35	22.30	27.00	29.10	32.60

Cond °C	Power, kW							
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	6.19	6.47	6.56					
15.0	6.69	7.11	7.36	7.41				
20.0	7.16	7.71	8.12	8.36	8.36			
25.0	7.59	8.28	8.84	9.25	9.46	9.43	9.34	
30.0	8.00	8.81	9.52	10.10	10.50	10.70	10.70	10.60
35.0	8.39	9.30	10.15	10.90	11.50	11.90	12.00	12.05
40.0	8.74	9.77	10.75	11.65	12.40	13.05	13.20	13.40
45.0	9.08	10.20	11.30	12.35	13.30	14.10	14.40	14.75
50.0	9.39	10.60	11.85	13.00	14.15	15.15	15.50	15.95
55.0	9.67	11.00	12.30	13.65	14.90	16.10	16.55	17.15
60.0		11.35	12.75	14.25	15.65	17.00	17.55	18.25
65.0			13.20	14.75	16.35	17.90	18.45	19.30
70.0			13.60	15.30	17.00	18.70	19.35	20.30
75.0				15.75	17.60	19.45	20.20	21.30
80.0				16.20	18.15	20.20	21.00	22.20

50 Hz

4MT-22X

R134a

Cond °C	Current at 400 V, A							
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	16.23	16.39	16.38					
15.0	16.58	16.92	17.12	17.11				
20.0	16.95	17.47	17.88	18.11	18.07			
25.0	17.34	18.02	18.63	19.10	19.34	19.26	19.12	
30.0	17.73	18.57	19.38	20.09	20.60	20.82	20.82	20.69
35.0	18.12	19.12	20.12	21.06	21.83	22.36	22.48	22.56
40.0	18.51	19.66	20.85	22.00	23.03	23.86	24.11	24.39
45.0	18.89	20.18	21.55	22.92	24.21	25.32	25.70	26.18
50.0	19.26	20.69	22.23	23.81	25.34	26.74	27.24	27.92
55.0	19.61	21.17	22.88	24.67	26.44	28.11	28.73	29.60
60.0		21.62	23.49	25.48	27.48	29.43	30.17	31.22
65.0			24.07	26.24	28.47	30.68	31.54	32.78
70.0			24.59	26.95	29.41	31.88	32.85	34.27
75.0				27.61	30.28	33.00	34.08	35.68
80.0				28.20	31.08	34.05	35.24	37.01

Cond °C	Suction Mass Flow, g/s							
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	128.50	163.50	207.00					
15.0	126.50	161.50	204.00	255.00				
20.0	124.50	159.00	201.00	252.00	313.00			
25.0	123.00	157.00	198.50	249.00	308.00	379.00	411.00	
30.0	121.00	155.00	196.00	245.00	304.00	374.00	405.00	456.00
35.0	119.00	152.50	193.00	241.00	299.00	368.00	399.00	449.00
40.0	117.00	150.50	190.00	238.00	294.00	362.00	392.00	442.00
45.0	115.00	148.00	187.00	234.00	289.00	356.00	385.00	434.00
50.0	113.00	145.50	184.00	230.00	284.00	349.00	378.00	426.00
55.0	111.00	143.00	180.50	225.00	278.00	342.00	370.00	417.00
60.0		140.00	176.50	220.00	272.00	334.00	362.00	408.00
65.0			172.50	215.00	265.00	325.00	352.00	397.00
70.0			168.00	209.00	257.00	316.00	342.00	386.00
75.0				202.00	249.00	305.00	331.00	374.00
80.0				195.00	240.00	294.00	319.00	361.00

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 (MT), dBA	70
Sound Power (MT), dBA	81
Sound Power with Sound Shell (MT), dBA	66
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	1430
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