



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

6MM-30X

R134a

Cond °C	Cooling Capacity, kW							
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	35.20	44.60	56.00					
15.0	33.50	42.50	53.50	66.50				
20.0	31.80	40.50	50.90	63.40	78.00			
25.0	30.20	38.40	48.40	60.20	74.20	90.40	97.50	
30.0	28.50	36.40	45.90	57.10	70.30	85.70	92.50	103.50
35.0	26.80	34.30	43.30	53.90	66.40	80.90	87.40	97.70
40.0	25.10	32.30	40.80	50.80	62.50	76.20	82.20	92.00
45.0	23.40	30.20	38.20	47.60	58.60	71.40	77.10	86.20
50.0	21.70	28.10	35.60	44.40	54.70	66.60	71.90	80.50
55.0	20.00	26.00	33.00	41.20	50.70	61.80	66.70	74.70
60.0		23.90	30.30	37.90	46.70	57.00	61.50	68.90
65.0			27.70	34.60	42.70	52.10	56.30	63.00
70.0			25.00	31.30	38.60	47.10	50.90	57.10
75.0				27.90	34.50	42.20	45.60	51.10
80.0				24.50	30.30	37.10	40.20	45.10

Cond °C	Power, kW							
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	8.44	8.90	9.14					
15.0	9.05	9.70	10.15	10.30				
20.0	9.65	10.45	11.10	11.50	11.60			
25.0	10.20	11.20	12.05	12.65	13.00	13.00	12.90	
30.0	10.75	11.90	12.95	13.75	14.35	14.65	14.65	14.55
35.0	11.25	12.55	13.80	14.85	15.65	16.20	16.35	16.45
40.0	11.70	13.20	14.60	15.85	16.90	17.70	17.95	18.25
45.0	12.15	13.75	15.35	16.80	18.10	19.15	19.50	19.95
50.0	12.50	14.25	16.00	17.70	19.20	20.50	21.00	21.60
55.0	12.85	14.75	16.65	18.50	20.20	21.80	22.40	23.20
60.0		15.15	17.20	19.25	21.20	23.00	23.70	24.70
65.0			17.70	19.95	22.10	24.20	24.90	26.10
70.0			18.10	20.50	22.90	25.20	26.10	27.40
75.0				21.10	23.60	26.20	27.10	28.60
80.0				21.50	24.30	27.00	28.10	29.70

50 Hz

6MM-30X

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	23.54	23.88	24.01					
15.0	23.99	24.55	24.94	25.05				
20.0	24.48	25.25	25.90	26.30	26.36			
25.0	24.99	25.98	26.87	27.57	27.96	27.93	27.77	
30.0	25.51	26.71	27.86	28.84	29.56	29.90	29.90	29.75
35.0	26.02	27.43	28.83	30.10	31.15	31.85	32.01	32.11
40.0	26.52	28.14	29.78	31.34	32.71	33.78	34.09	34.44
45.0	26.99	28.81	30.70	32.54	34.23	35.66	36.13	36.72
50.0	27.42	29.44	31.57	33.69	35.70	37.49	38.12	38.95
55.0	27.79	30.01	32.37	34.77	37.10	39.25	40.03	41.11
60.0		30.51	33.11	35.78	38.42	40.93	41.86	43.18
65.0			33.75	36.70	39.66	42.51	43.60	45.15
70.0			34.30	37.52	40.78	43.99	45.23	47.02
75.0				38.22	41.79	45.34	46.73	48.76
80.0				38.79	42.67	46.56	48.10	50.37

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	171.00	217.00	273.00					
15.0	168.50	214.00	270.00	338.00				
20.0	166.00	211.00	267.00	334.00	413.00			
25.0	163.00	209.00	264.00	330.00	409.00	501.00	543.00	
30.0	160.50	206.00	260.00	326.00	403.00	495.00	536.00	603.00
35.0	157.50	202.00	256.00	321.00	398.00	489.00	529.00	595.00
40.0	154.50	199.00	253.00	316.00	392.00	482.00	522.00	587.00
45.0	151.00	195.50	248.00	311.00	386.00	474.00	514.00	578.00
50.0	147.50	191.50	244.00	306.00	379.00	466.00	506.00	569.00
55.0	143.50	187.00	239.00	300.00	372.00	458.00	497.00	559.00
60.0		182.50	233.00	293.00	364.00	449.00	487.00	549.00
65.0			227.00	286.00	356.00	439.00	476.00	538.00
70.0			220.00	278.00	347.00	428.00	465.00	526.00
75.0				270.00	337.00	417.00	453.00	513.00
80.0				260.00	326.00	405.00	441.00	500.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	6
Displacement @ 50 Hz, m³/h	121
Bore/Stroke, mm	71.5/57.5
Length/Width, mm	695/547
Height, mm	450
Net Weight, kg	215
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	71
Sound Power (MT), dBA	82
Sound Power with Sound Shell (MT), dBA	67
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	59.7
Locked Rotor Current, A	255
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

Oil Pressure Switch (-P)	OPS2 Sensor
CoreSense Protection (-P)	Motor protection
Mounting Parts	Spring
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
Digital Modulation	33-100 %
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
Sound Attenuation	Sound Shell
Adapter Kit	For Parallel Operation
Discharge Shut-off	Angle valve
Copeland Compressor Electronic module	Modbus extension module

MOTOR OPTIONS

<i>Motor Code</i>	<i>Power Supply</i>	<i>Nominal Voltage, V</i>	<i>Start Connection</i>	<i>DOL Connection</i>	<i>Amps Factor</i>
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