



Minimum Evaporating Temp. With:

- 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

Additional restrictions, please see application guidelines

50 Hz

6MM-30X

R513A

Cond °C	Cooling Capacity, kW								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	31.20	38.70	47.90	58.90					
15.0	29.60	36.90	45.70	56.30	68.90				
20.0	27.90	35.00	43.50	53.80	65.80	79.80			
25.0	26.30	33.10	41.30	51.10	62.60	76.00	91.40		
30.0	24.60	31.20	39.00	48.40	59.40	72.10	86.80	93.30	103.50
35.0	22.90	29.20	36.70	45.60	56.10	68.20	82.10	88.20	98.00
40.0	21.30	27.20	34.40	42.80	52.70	64.10	77.20	83.00	92.20
45.0	19.60	25.20	32.00	39.90	49.20	59.90	72.20	77.70	86.30
50.0	17.90	23.20	29.50	36.90	45.60	55.60	67.10	72.20	80.30
55.0		21.20	27.10	33.90	42.00	51.30	61.90	66.60	74.10
60.0		19.15	24.60	30.90	38.30	46.80	56.60	60.90	67.80
65.0			22.00	27.80	34.50	42.20	51.20	55.10	61.40
70.0			19.40	24.60	30.60	37.60	45.60	49.20	54.80
75.0				21.40	26.70	32.90	40.00	43.10	48.10
80.0				18.10	22.70	28.10	34.30	37.00	41.30
85.0					18.65	23.20	28.40	30.70	34.40

Cond °C	Power, kW								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	8.45	9.16	9.58	9.70					
15.0	9.03	9.89	10.50	10.80	10.85				
20.0	9.58	10.60	11.35	11.90	12.15	12.10			
25.0	10.10	11.25	12.20	12.90	13.40	13.60	13.55		
30.0	10.55	11.85	12.95	13.90	14.60	15.05	15.25	15.25	15.20
35.0	10.95	12.35	13.65	14.80	15.70	16.45	16.90	17.05	17.15
40.0	11.30	12.85	14.30	15.60	16.75	17.70	18.50	18.70	19.00
45.0	11.60	13.30	14.90	16.40	17.75	18.95	19.95	20.30	20.80
50.0	11.80	13.65	15.40	17.10	18.65	20.10	21.40	21.80	22.50
55.0		13.95	15.85	17.70	19.45	21.10	22.70	23.30	24.10
60.0		14.15	16.20	18.25	20.20	22.10	23.90	24.60	25.60
65.0			16.50	18.70	20.90	23.00	25.10	25.90	27.00
70.0			16.70	19.10	21.40	23.80	26.10	27.00	28.40
75.0				19.35	21.90	24.50	27.10	28.10	29.60
80.0				19.55	22.30	25.10	27.90	29.00	30.70
85.0					22.60	25.60	28.60	29.90	31.70

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50 Hz

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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
10.0	23.85	24.49	24.86	24.88					
15.0	24.31	25.13	25.70	25.99	25.91				
20.0	24.77	25.76	26.55	27.09	27.32	27.18			
25.0	25.23	26.38	27.38	28.19	28.72	28.93	28.74		
30.0	25.67	26.98	28.20	29.25	30.09	30.65	30.86	30.83	30.67
35.0	26.08	27.55	28.98	30.29	31.43	32.33	32.94	33.08	33.19
40.0	26.45	28.08	29.71	31.28	32.72	33.97	34.96	35.28	35.65
45.0	26.77	28.56	30.39	32.21	33.95	35.54	36.93	37.42	38.06
50.0	27.03	28.98	31.01	33.08	35.11	37.05	38.83	39.48	40.39
55.0		29.32	31.56	33.87	36.20	38.47	40.64	41.46	42.63
60.0		29.58	32.02	34.58	37.20	39.81	42.36	43.35	44.79
65.0			32.39	35.19	38.10	41.05	43.98	45.14	46.84
70.0			32.65	35.69	38.89	42.17	45.49	46.81	48.77
75.0				36.08	39.56	43.18	46.87	48.36	50.58
80.0				36.34	40.10	44.05	48.12	49.77	52.26
85.0					40.51	44.78	49.23	51.04	53.79

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
10.0	166.00	206.00	256.00	315.00					
15.0	163.00	204.00	254.00	313.00	384.00				
20.0	160.50	201.00	251.00	311.00	382.00	465.00			
25.0	157.00	198.50	248.00	308.00	379.00	462.00	559.00		
30.0	154.00	195.50	245.00	305.00	376.00	459.00	555.00	598.00	667.00
35.0	150.50	192.00	242.00	302.00	372.00	455.00	551.00	594.00	663.00
40.0	146.50	188.50	238.00	298.00	368.00	451.00	546.00	589.00	657.00
45.0	143.00	184.50	234.00	294.00	364.00	446.00	541.00	583.00	651.00
50.0	138.50	180.50	230.00	289.00	359.00	440.00	535.00	577.00	645.00
55.0		176.00	225.00	284.00	353.00	434.00	528.00	570.00	637.00
60.0		171.00	220.00	278.00	346.00	427.00	520.00	562.00	629.00
65.0			214.00	272.00	339.00	419.00	512.00	553.00	620.00
70.0			207.00	264.00	331.00	410.00	503.00	544.00	611.00
75.0				256.00	323.00	401.00	493.00	534.00	601.00
80.0				248.00	314.00	392.00	484.00	526.00	593.00
85.0					307.00	386.00	481.00	523.00	593.00

Additional restrictions, please see application guidelines

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	631
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

Additional restrictions, please see application guidelines

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

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