



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

50 Hz

6MM-30X

R450A Dew Point

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	23.20	29.90	38.30	48.60					
15.0	22.10	28.50	36.50	46.30	58.00				
20.0	21.00	27.10	34.80	44.00	55.10	68.10			
25.0	19.85	25.80	33.00	41.70	52.20	64.50	78.90		
30.0	18.70	24.40	31.20	39.50	49.30	60.90	74.50	80.50	90.10
35.0	17.55	22.90	29.40	37.20	46.50	57.40	70.10	75.80	84.80
40.0	16.35	21.50	27.70	35.00	43.70	53.90	65.80	71.10	79.60
45.0	15.10	20.00	25.80	32.70	40.80	50.40	61.50	66.40	74.40
50.0	13.80	18.50	24.00	30.50	38.00	46.90	57.20	61.80	69.20
55.0		17.00	22.20	28.20	35.20	43.40	53.00	57.20	64.10
60.0		15.40	20.30	25.90	32.40	39.90	48.70	52.60	59.00
65.0			18.35	23.50	29.50	36.40	44.50	48.10	53.90
70.0			16.35	21.20	26.60	32.90	40.30	43.50	48.80
75.0				18.75	23.70	29.40	36.00	39.00	43.70
80.0				16.30	20.80	25.90	31.80	34.40	38.60
85.0					17.80	22.30	27.50	29.80	33.60

Cond °C	Power, kW								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	7.34	7.79	8.09	8.18					
15.0	7.68	8.27	8.72	8.98	9.04				
20.0	8.02	8.74	9.34	9.77	10.00	10.00			
25.0	8.34	9.20	9.95	10.55	11.00	11.20	11.15		
30.0	8.64	9.64	10.55	11.30	11.90	12.35	12.50	12.50	12.40
35.0	8.92	10.05	11.10	12.05	12.85	13.45	13.85	13.95	14.00
40.0	9.16	10.45	11.65	12.75	13.75	14.55	15.15	15.35	15.55
45.0	9.37	10.80	12.15	13.45	14.60	15.60	16.45	16.75	17.05
50.0	9.54	11.10	12.60	14.05	15.40	16.65	17.70	18.05	18.55
55.0		11.35	13.00	14.65	16.20	17.60	18.90	19.35	20.00
60.0		11.55	13.40	15.20	16.90	18.55	20.10	20.60	21.40
65.0			13.70	15.65	17.60	19.40	21.10	21.80	22.70
70.0			13.90	16.05	18.20	20.20	22.20	22.90	24.00
75.0				16.40	18.70	21.00	23.10	24.00	25.20
80.0				16.70	19.20	21.70	24.00	25.00	26.30
85.0					19.55	22.20	24.90	25.90	27.40

50 Hz

6MM-30X

R450A Dew Point

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	22.70	23.01	23.23	23.27					
15.0	22.89	23.33	23.70	23.92	23.92				
20.0	23.11	23.68	24.21	24.62	24.84	24.78			
25.0	23.35	24.05	24.75	25.35	25.80	25.99	25.87		
30.0	23.60	24.44	25.31	26.11	26.79	27.24	27.41	27.37	27.20
35.0	23.85	24.83	25.87	26.88	27.79	28.52	28.98	29.07	29.09
40.0	24.08	25.22	26.43	27.66	28.80	29.80	30.56	30.78	31.01
45.0	24.29	25.58	26.98	28.42	29.81	31.08	32.15	32.50	32.93
50.0	24.45	25.90	27.49	29.15	30.80	32.35	33.73	34.21	34.86
55.0		26.18	27.97	29.86	31.76	33.60	35.29	35.91	36.76
60.0		26.40	28.39	30.51	32.67	34.80	36.82	37.58	38.65
65.0			28.75	31.10	33.53	35.96	38.31	39.20	40.49
70.0			29.03	31.63	34.33	37.06	39.74	40.78	42.29
75.0				32.07	35.05	38.08	41.10	42.28	44.02
80.0				32.41	35.67	39.02	42.39	43.71	45.68
85.0					36.20	39.87	43.58	45.05	47.25

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	117.50	152.00	195.50	249.00					
15.0	116.00	150.00	193.00	245.00	308.00				
20.0	114.50	148.50	190.50	242.00	304.00	378.00			
25.0	112.50	146.50	188.00	239.00	300.00	373.00	458.00		
30.0	110.50	144.00	185.50	235.00	295.00	367.00	451.00	489.00	550.00
35.0	108.00	142.00	182.50	232.00	291.00	361.00	444.00	481.00	542.00
40.0	105.50	139.00	179.50	228.00	286.00	355.00	437.00	473.00	533.00
45.0	102.00	136.00	176.50	224.00	281.00	349.00	429.00	465.00	524.00
50.0	98.50	132.50	173.00	220.00	276.00	343.00	422.00	457.00	515.00
55.0		128.50	168.50	216.00	271.00	336.00	414.00	449.00	505.00
60.0		124.00	164.00	210.00	265.00	329.00	405.00	439.00	495.00
65.0			158.50	205.00	258.00	321.00	396.00	430.00	485.00
70.0			152.00	198.00	251.00	313.00	387.00	420.00	474.00
75.0				190.50	243.00	304.00	376.00	409.00	463.00
80.0				182.00	234.00	294.00	365.00	398.00	451.00
85.0					224.00	283.00	354.00	386.00	439.00

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	605
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