



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

6MT-35X

R134a

Cond °C	Cooling Capacity, kW							
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	40.20	50.80	63.70					
15.0	38.30	48.40	60.70	75.40				
20.0	36.30	46.10	57.80	71.70	88.10			
25.0	34.40	43.70	54.90	68.10	83.60	101.50	109.50	
30.0	32.50	41.30	51.90	64.50	79.20	96.20	104.00	116.00
35.0	30.50	39.00	49.00	60.80	74.70	90.80	97.90	109.50
40.0	28.60	36.60	46.10	57.20	70.20	85.30	92.00	102.50
45.0	26.60	34.20	43.10	53.50	65.70	79.80	86.10	96.10
50.0	24.60	31.80	40.10	49.80	61.20	74.30	80.10	89.50
55.0	22.60	29.30	37.10	46.10	56.60	68.80	74.20	82.80
60.0		26.80	34.00	42.30	52.00	63.20	68.10	76.10
65.0			30.90	38.50	47.30	57.60	62.10	69.40
70.0			27.70	34.70	42.60	51.90	56.00	62.60
75.0				30.70	37.90	46.10	49.80	55.70
80.0				26.80	33.00	40.30	43.60	48.80

Cond °C	Power, kW							
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	9.09	9.47	9.58					
15.0	9.96	10.55	10.95	11.00				
20.0	10.75	11.60	12.20	12.55	12.55			
25.0	11.50	12.50	13.40	14.00	14.35	14.30	14.20	
30.0	12.15	13.40	14.45	15.35	16.00	16.30	16.35	16.25
35.0	12.75	14.20	15.50	16.65	17.55	18.20	18.35	18.50
40.0	13.30	14.90	16.45	17.85	19.05	20.00	20.30	20.60
45.0	13.80	15.55	17.30	18.95	20.40	21.70	22.10	22.70
50.0	14.25	16.15	18.10	19.95	21.70	23.30	23.80	24.60
55.0	14.60	16.70	18.85	20.90	22.90	24.80	25.50	26.40
60.0		17.20	19.50	21.80	24.10	26.20	27.00	28.20
65.0			20.10	22.60	25.10	27.50	28.50	29.80
70.0			20.70	23.40	26.10	28.80	29.80	31.40
75.0				24.10	27.00	29.90	31.10	32.80
80.0				24.70	27.90	31.00	32.30	34.20

50 Hz

6MT-35X

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	23.43	23.82	23.87					
15.0	24.30	24.96	25.35	25.36				
20.0	25.13	26.07	26.77	27.15	27.12			
25.0	25.93	27.12	28.14	28.89	29.27	29.19	29.01	
30.0	26.67	28.12	29.45	30.57	31.37	31.75	31.77	31.63
35.0	27.37	29.07	30.70	32.17	33.38	34.24	34.45	34.63
40.0	28.02	29.96	31.89	33.72	35.33	36.64	37.06	37.55
45.0	28.62	30.80	33.02	35.19	37.20	38.96	39.57	40.37
50.0	29.16	31.57	34.08	36.58	38.99	41.20	42.00	43.11
55.0	29.64	32.28	35.07	37.91	40.70	43.35	44.34	45.75
60.0		32.92	35.98	39.15	42.32	45.40	46.59	48.30
65.0			36.82	40.31	43.86	47.37	48.74	50.74
70.0			37.58	41.39	45.30	49.24	50.79	53.09
75.0				42.38	46.66	51.01	52.75	55.33
80.0				43.28	47.92	52.68	54.60	57.47

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	195.00	247.00	311.00					
15.0	192.00	244.00	307.00	383.00				
20.0	189.00	241.00	303.00	378.00	467.00			
25.0	186.00	237.00	299.00	373.00	461.00	564.00	610.00	
30.0	182.50	234.00	295.00	368.00	454.00	556.00	602.00	675.00
35.0	179.00	230.00	290.00	362.00	448.00	548.00	593.00	666.00
40.0	175.50	226.00	285.00	356.00	440.00	539.00	584.00	655.00
45.0	171.50	221.00	280.00	350.00	433.00	530.00	574.00	645.00
50.0	167.00	216.00	275.00	343.00	424.00	520.00	563.00	633.00
55.0	161.50	211.00	268.00	336.00	415.00	509.00	552.00	620.00
60.0		205.00	261.00	328.00	406.00	498.00	539.00	607.00
65.0			254.00	319.00	395.00	485.00	526.00	592.00
70.0			245.00	308.00	383.00	471.00	511.00	576.00
75.0				297.00	370.00	456.00	495.00	559.00
80.0				284.00	355.00	439.00	478.00	541.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	6
Displacement @ 50 Hz, m³/h	135
Bore/Stroke, mm	75.7/57.5
Length/Width, mm	725/547
Height, mm	450
Net Weight, kg	221
Suction, inch	2 1/8
Discharge, inch	1 5/8
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	72
Sound Power (MT), dBA	83
Sound Power with Sound Shell (MT), dBA	68
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	67.3
Locked Rotor Current, A	255
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

Mounting Parts	Spring
CoreSense Protection (-P)	Motor protection
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

Check Valve	For unloaded start operation
Mounting Parts	Rubber
Adapter Kit	For Parallel Operation
Additional Cooling	70 W Vertical Air Flow Fan
Capacity Control	Capacity Steps 67/33 %
Oil Pressure Switch	OPS2 Electronic Switch
Crankcase Heater	100 W Internal
Sound Attenuation	Sound Shell
Digital Modulation	33-100 %
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	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