



Minimum Evaporating Temp. With:

- 20 K Suction Superheat
- 20 °C Suction Gas Return
- Maximum Evaporating Temperature

Suction Superheat 10.0K

Liquid Subcooling 0.0K

Evaporating Temperature, °C

50 Hz

6MID-40X 100% Loaded

R134a

Cond °C	Cooling Capacity, kW											
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0
10.0	35.50	45.00	56.60									
15.0	33.10	42.20	53.30	66.80								
20.0	30.80	39.50	50.10	62.90	78.10							
25.0	28.60	36.80	46.90	59.00	73.50	90.50	98.10					
30.0	26.40	34.20	43.70	55.20	68.90	85.10	92.30	104.00	114.50			
35.0	24.20	31.60	40.60	51.50	64.40	79.70	86.60	97.60	107.50	118.50		
40.0	22.20	29.10	37.60	47.80	60.00	74.50	80.90	91.40	101.00	111.00	133.50	159.50
45.0	20.10	26.70	34.60	44.20	55.70	69.20	75.30	85.20	94.10	103.50	125.00	149.50
50.0	18.10	24.30	31.70	40.60	51.40	64.10	69.80	79.10	87.50	96.50	116.50	140.00
55.0	16.20	21.90	28.80	37.10	47.10	59.00	64.30	73.00	80.90	89.40	108.50	130.50
60.0		19.60	26.00	33.70	42.90	53.90	58.90	67.00	74.40	82.30	100.00	121.00
65.0			23.20	30.30	38.80	49.00	53.60	61.10	67.90	75.30	92.00	111.50
70.0			20.50	27.00	34.70	44.00	48.30	55.20	61.50	68.40	83.80	102.00
75.0				23.70	30.70	39.20	43.00	49.40	55.20	61.50	75.80	92.50
80.0				20.50	26.80	34.40	37.90	43.60	48.90	54.70	67.80	83.20

Cond °C	Power, kW											
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0
10.0	8.39	8.73	8.89									
15.0	9.16	9.67	10.05	10.20								
20.0	9.85	10.55	11.10	11.45	11.60							
25.0	10.50	11.30	12.05	12.65	13.05	13.20	13.15					
30.0	11.05	12.05	13.00	13.80	14.40	14.80	14.90	14.90	14.85			
35.0	11.55	12.70	13.80	14.85	15.70	16.35	16.55	16.75	16.80	16.80		
40.0	12.00	13.30	14.60	15.80	16.90	17.80	18.10	18.45	18.70	18.85	18.85	18.50
45.0	12.40	13.85	15.30	16.70	18.00	19.15	19.55	20.10	20.50	20.80	21.10	21.10
50.0	12.75	14.35	15.95	17.55	19.05	20.50	21.00	21.70	22.20	22.60	23.30	23.60
55.0	13.05	14.80	16.55	18.35	20.10	21.70	22.30	23.10	23.80	24.40	25.40	26.00
60.0		15.15	17.10	19.05	21.00	22.80	23.50	24.60	25.30	26.10	27.40	28.40
65.0			17.60	19.75	21.90	23.90	24.70	25.90	26.80	27.70	29.30	30.60
70.0			18.05	20.40	22.70	25.00	25.90	27.20	28.20	29.30	31.10	32.80
75.0				20.90	23.40	25.90	26.90	28.40	29.60	30.70	32.90	34.90
80.0				21.50	24.20	26.90	27.90	29.60	30.90	32.10	34.60	36.90

Cond °C	Current at 400 V, A											
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0
10.0	27.42	27.76	27.92									
15.0	28.08	28.57	28.91	29.04								
20.0	28.70	29.33	29.87	30.24	30.34							
25.0	29.28	30.07	30.80	31.40	31.77	31.85	31.78					
30.0	29.82	30.76	31.69	32.52	33.17	33.57	33.64	33.62	33.50			
35.0	30.32	31.42	32.54	33.61	34.54	35.26	35.46	35.67	35.75	35.71		
40.0	30.78	32.03	33.35	34.66	35.87	36.91	37.26	37.69	37.96	38.14	38.16	37.69
45.0	31.19	32.60	34.12	35.67	37.17	38.53	39.02	39.68	40.14	40.53	41.00	41.02
50.0	31.55	33.13	34.85	36.64	38.42	40.11	40.74	41.62	42.29	42.88	43.81	44.31
55.0	31.87	33.60	35.53	37.56	39.63	41.65	42.42	43.53	44.40	45.20	46.58	47.58
60.0		34.03	36.16	38.44	40.80	43.14	44.06	45.40	46.47	47.48	49.31	50.81
65.0			36.75	39.28	41.92	44.60	45.66	47.22	48.49	49.72	52.01	54.00
70.0			37.28	40.06	43.00	46.00	47.21	49.01	50.48	51.92	54.66	57.15
75.0				40.79	44.02	47.36	48.72	50.74	52.42	54.07	57.27	60.27
80.0				41.47	45.00	48.68	50.17	52.43	54.31	56.18	59.84	63.34

Cond °C	Suction Mass Flow, g/s											
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0
10.0	196.00	244.00	302.00									
15.0	190.50	238.00	296.00	364.00								
20.0	185.00	232.00	289.00	356.00	434.00							
25.0	179.00	226.00	282.00	348.00	426.00	515.00	554.00					
30.0	173.50	220.00	275.00	341.00	417.00	505.00	544.00	606.00	661.00			
35.0	167.50	214.00	268.00	333.00	408.00	495.00	533.00	595.00	649.00	708.00		
40.0	161.50	207.00	261.00	325.00	399.00	485.00	523.00	583.00	637.00	695.00	821.00	962.00
45.0	155.00	200.00	254.00	317.00	390.00	474.00	512.00	571.00	625.00	682.00	806.00	946.00
50.0	148.50	193.50	246.00	308.00	380.00	464.00	500.00	559.00	612.00	668.00	792.00	930.00
55.0	141.50	186.50	239.00	300.00	370.00	452.00	489.00	547.00	599.00	655.00	777.00	914.00
60.0		179.50	231.00	291.00	360.00	441.00	477.00	534.00	586.00	641.00	761.00	898.00
65.0			223.00	281.00	350.00	429.00	465.00	521.00	572.00	626.00	746.00	882.00
70.0			214.00	272.00	339.00	418.00	452.00	508.00	558.00	612.00	731.00	866.00
75.0				263.00	329.00	406.00	440.00	495.00	545.00	598.00	716.00	851.00
80.0				253.00	319.00	395.00	428.00	483.00	532.00	586.00	703.00	838.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	6
Displacement @ 50 Hz, m ³ /h	121
Bore/Stroke, mm	71.5/57.5
Length/Width, mm	695/547
Height, mm	450
Net Weight, kg	225
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	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
Digital Modulation	33-100%
Refrigerant's GWP	1430
Refrigerant's classification	A1

COMPRESSOR ELECTRICAL DATA (380-420 V / 3~ / 50 Hz)

Maximum Operating Current, A	71.4
Locked Rotor Current, A	304
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
Digital Driver	EC3-D23
Digital Modulation	33-66%
Adapter Kit	For Parallel Operation
Additional Cooling	70 W Vertical Air Flow Fan
Crankcase Heater	100 W Internal
Oil Pressure Switch	OPS2 Electronic Switch
Sound Attenuation	Sound Shell
Mounting Parts	Rubber
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