



Minimum Evaporating Temp. With:

— 20 °C Suction Gas Return

— Maximum Evaporating Temperature

50 Hz

6MU-40

R134a

Suction Return Temperature 18.3°C

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW							
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	46.30	58.60	73.30					
15.0	43.30	54.90	68.90	85.60				
20.0	40.50	51.60	64.80	80.60	99.20			
25.0	38.00	48.50	61.00	75.80	93.40	114.00	123.50	
30.0	35.60	45.60	57.30	71.30	87.90	107.50	116.00	130.00
35.0	33.40	42.80	53.90	67.00	82.50	101.00	109.00	122.00
40.0	31.30	40.20	50.50	62.80	77.30	94.30	102.00	114.50
45.0	29.30	37.60	47.30	58.70	72.10	88.00	95.10	106.50
50.0	27.30	35.10	44.10	54.60	67.10	81.80	88.40	99.10
55.0	25.30	32.60	40.90	50.60	62.00	75.60	81.60	91.60
60.0		30.00	37.70	46.60	57.00	69.40	74.90	84.00
65.0			34.40	42.40	51.90	63.10	68.20	76.50
70.0			31.00	38.20	46.70	56.80	61.40	68.80
75.0				33.90	41.40	50.40	54.40	61.10
80.0				29.40	35.90	43.80	47.30	53.20

Cond °C	Power, kW							
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	10.35	11.00	11.50					
15.0	11.20	12.05	12.75	13.25				
20.0	12.00	13.05	14.00	14.75	15.20			
25.0	12.75	14.05	15.20	16.15	16.95	17.40	17.50	
30.0	13.45	14.95	16.30	17.55	18.60	19.35	19.60	19.85
35.0	14.05	15.75	17.40	18.85	20.20	21.30	21.60	22.10
40.0	14.65	16.55	18.40	20.10	21.70	23.10	23.60	24.20
45.0	15.15	17.25	19.30	21.30	23.20	24.80	25.40	26.30
50.0	15.55	17.85	20.20	22.40	24.50	26.50	27.20	28.20
55.0	15.90	18.40	20.90	23.40	25.80	28.10	28.90	30.10
60.0		18.85	21.60	24.30	27.00	29.50	30.50	31.90
65.0			22.10	25.10	28.10	30.90	32.00	33.60
70.0			22.60	25.80	29.00	32.20	33.40	35.20
75.0				26.40	29.90	33.30	34.70	36.70
80.0				26.90	30.70	34.40	35.90	38.00

50 Hz 6MU-40 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	26.21	26.74	27.11					
15.0	26.94	27.75	28.45	28.91				
20.0	27.69	28.78	29.80	30.63	31.15			
25.0	28.44	29.82	31.16	32.35	33.28	33.84	33.94	
30.0	29.17	30.83	32.50	34.05	35.39	36.39	36.68	36.96
35.0	29.87	31.82	33.81	35.73	37.47	38.92	39.39	39.97
40.0	30.52	32.76	35.07	37.36	39.50	41.40	42.06	42.93
45.0	31.10	33.63	36.27	38.93	41.47	43.81	44.67	45.83
50.0	31.60	34.42	37.39	40.41	43.37	46.15	47.19	48.66
55.0	32.01	35.11	38.41	41.80	45.16	48.40	49.63	51.39
60.0		35.69	39.32	43.08	46.85	50.53	51.95	54.01
65.0			40.10	44.22	48.40	52.53	54.14	56.50
70.0			40.73	45.22	49.81	54.39	56.19	58.84
75.0				46.06	51.06	56.09	58.08	61.03
80.0				46.71	52.13	57.61	59.79	63.04

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	226.00	287.00	360.00					
15.0	219.00	279.00	351.00	438.00				
20.0	213.00	271.00	343.00	428.00	530.00			
25.0	207.00	265.00	335.00	419.00	519.00	638.00	692.00	
30.0	202.00	260.00	328.00	410.00	509.00	626.00	679.00	765.00
35.0	198.00	254.00	322.00	402.00	499.00	614.00	666.00	751.00
40.0	194.00	250.00	316.00	395.00	489.00	602.00	653.00	737.00
45.0	190.50	246.00	310.00	388.00	480.00	590.00	641.00	723.00
50.0	186.50	241.00	305.00	380.00	470.00	579.00	628.00	709.00
55.0	183.00	237.00	299.00	373.00	460.00	566.00	615.00	694.00
60.0		232.00	293.00	364.00	450.00	553.00	600.00	678.00
65.0			286.00	355.00	438.00	539.00	585.00	662.00
70.0			277.00	345.00	425.00	523.00	568.00	643.00
75.0				333.00	411.00	506.00	549.00	623.00
80.0				318.00	393.00	485.00	528.00	600.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	6
Displacement @ 50 Hz, m ³ /h	153
Bore/Stroke, mm	80.6/57.5
Length/Width, mm	757/547
Height, mm	450
Net Weight, kg	225
Suction, inch	2 5/8
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	74
Sound Power (MT), dBA	85
Sound Power with Sound Shell (MT), dBA	69
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	75.8
Locked Rotor Current, A	306
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

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
Adapter Kit	For Parallel Operation
Check Valve	For unloaded start operation
Sound Attenuation	Sound Shell
Mounting Parts	Rubber
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