



Minimum Evaporating Temp. With:

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

Compatibility with A2L refrigerants for manufacturing date after 10 2021 only

50 Hz 6MU-40 R454C Dew Point

Suction Return Temperature 18.3°C Liquid Subcooling 0.0K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW							
	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0
10.0	31.30	40.10	51.30	65.00	81.20			
15.0	29.30	37.80	48.50	61.40	76.80	94.80		
20.0	27.40	35.50	45.60	57.90	72.50	89.60	109.00	131.50
25.0	25.60	33.30	42.90	54.50	68.30	84.40	103.00	124.00
30.0	23.80	31.10	40.20	51.20	64.10	79.30	96.70	116.50
35.0		29.00	37.50	47.80	60.00	74.20	90.60	109.00
40.0		26.90	34.90	44.50	55.90	69.10	84.40	102.00
45.0			32.30	41.20	51.80	64.10	78.30	94.40
50.0			29.70	38.00	47.70	59.00	72.10	87.10
55.0				34.70	43.60	54.00	66.00	79.70
60.0					39.50	48.90	59.80	72.30
65.0					35.40	43.80	53.60	64.80
70.0						38.70	47.40	

Cond °C	Power, kW							
	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0
10.0	11.45	12.80	14.00	14.95	15.55			
15.0	12.15	13.70	15.10	16.35	17.25	17.80		
20.0	12.80	14.50	16.15	17.65	18.85	19.75	20.20	20.20
25.0	13.35	15.25	17.10	18.85	20.40	21.60	22.50	22.90
30.0	13.85	15.90	17.95	19.95	21.80	23.40	24.70	25.50
35.0		16.45	18.75	21.00	23.10	25.10	26.80	28.00
40.0		16.95	19.40	21.90	24.40	26.70	28.70	30.40
45.0			20.00	22.80	25.50	28.20	30.60	32.70
50.0			20.50	23.50	26.60	29.50	32.30	34.90
55.0				24.20	27.50	30.80	34.00	37.00
60.0					28.40	32.00	35.60	38.90
65.0					29.20	33.10	37.00	40.80
70.0						34.10	38.40	

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50 Hz

6MU-40

R454C Dew Point

Cond °C	Current at 400 V, A							
	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0
10.0	27.02	28.53	29.92	31.03	31.74			
15.0	27.79	29.52	31.19	32.66	33.79	34.45		
20.0	28.50	30.44	32.40	34.23	35.79	36.94	37.56	37.49
25.0	29.14	31.30	33.55	35.73	37.73	39.38	40.57	41.13
30.0	29.70	32.08	34.62	37.17	39.59	41.75	43.51	44.72
35.0		32.78	35.61	38.52	41.38	44.04	46.37	48.23
40.0		33.38	36.50	39.78	43.08	46.24	49.15	51.65
45.0			37.29	40.94	44.67	48.35	51.83	54.98
50.0			37.97	41.98	46.16	50.34	54.41	58.21
55.0				42.91	47.52	52.22	56.87	61.32
60.0					48.75	53.97	59.20	64.31
65.0					49.85	55.58	61.40	67.16
70.0						57.04	63.45	

Cond °C	Suction Mass Flow, g/s							
	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0
10.0	149.00	191.50	246.00	312.00	391.00			
15.0	144.50	187.00	240.00	306.00	384.00	476.00		
20.0	140.50	182.00	235.00	299.00	377.00	468.00	574.00	696.00
25.0	136.00	177.50	230.00	293.00	369.00	459.00	563.00	684.00
30.0	132.00	173.50	225.00	287.00	362.00	450.00	553.00	672.00
35.0		169.00	219.00	281.00	354.00	441.00	542.00	659.00
40.0		164.50	214.00	274.00	346.00	431.00	531.00	646.00
45.0			209.00	268.00	338.00	422.00	519.00	633.00
50.0			203.00	261.00	330.00	412.00	508.00	619.00
55.0				255.00	322.00	402.00	496.00	605.00
60.0					313.00	391.00	483.00	591.00
65.0					305.00	381.00	471.00	577.00
70.0						371.00	459.00	

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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
Base mounting (hole dia), mm	381 x 305 (18)
Sound Pressure @ 1m (LT), dBA	78
Sound Power (LT), dBA	89
Sound Conditions (LT, Temperatures: Evap./Cond./Suction at freq./speed)	-35 / 40 / 20 °C at 50 Hz
Sound Pressure @ 1m (MT), dBA	75
Sound Power (MT), dBA	86
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	148
Refrigerant's classification	A2L

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)

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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

Motor Code	Power Supply	Nominal Voltage, V	Start Connection	DOL Connection	Amps Factor
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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