



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

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	28.90	37.40	47.80	60.30	75.00			
15.0	27.20	35.30	45.10	57.00	71.00	87.30		
20.0	25.50	33.20	42.60	53.80	67.00	82.40	100.00	120.50
25.0	23.90	31.20	40.00	50.60	63.10	77.70	94.40	113.50
30.0	22.40	29.20	37.60	47.50	59.20	72.90	88.70	106.50
35.0		27.30	35.10	44.40	55.40	68.20	83.00	99.90
40.0		25.40	32.70	41.40	51.60	63.50	77.30	93.20
45.0			30.30	38.30	47.80	58.90	71.70	86.40
50.0			27.90	35.30	44.00	54.20	66.00	79.70
55.0				32.30	40.20	49.60	60.40	73.00
60.0					36.40	44.90	54.80	66.20
65.0					32.60	40.20	49.10	59.40
70.0						35.50	43.40	

Cond °C	Power, kW							
	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0
10.0	10.25	11.45	12.45	13.25	13.75			
15.0	10.95	12.30	13.50	14.50	15.25	15.70		
20.0	11.60	13.05	14.45	15.70	16.70	17.45	17.80	17.75
25.0	12.20	13.80	15.35	16.80	18.10	19.10	19.80	20.10
30.0	12.70	14.45	16.20	17.85	19.40	20.70	21.70	22.40
35.0		15.00	16.95	18.85	20.60	22.20	23.60	24.70
40.0		15.50	17.60	19.75	21.80	23.70	25.40	26.80
45.0			18.25	20.60	22.90	25.10	27.10	28.90
50.0			18.80	21.40	23.90	26.40	28.80	31.00
55.0				22.10	24.90	27.70	30.40	33.00
60.0					25.80	28.90	32.00	34.90
65.0					26.60	30.10	33.40	36.70
70.0						31.10	34.90	

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50 Hz

6MT-35

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	24.63	25.93	27.10	28.03	28.61			
15.0	25.40	26.87	28.26	29.48	30.40	30.92		
20.0	26.11	27.76	29.39	30.89	32.16	33.09	33.58	33.52
25.0	26.75	28.59	30.47	32.27	33.90	35.25	36.20	36.67
30.0	27.32	29.36	31.49	33.61	35.60	37.37	38.81	39.81
35.0		30.06	32.46	34.89	37.26	39.47	41.40	42.94
40.0		30.68	33.34	36.11	38.87	41.52	43.94	46.05
45.0			34.15	37.26	40.41	43.51	46.45	49.12
50.0			34.87	38.32	41.88	45.44	48.90	52.15
55.0				39.30	43.27	47.31	51.29	55.12
60.0					44.57	49.09	53.61	58.03
65.0					45.78	50.78	55.85	60.88
70.0						52.37	58.00	

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	137.50	178.50	229.00	290.00	362.00			
15.0	134.00	174.00	224.00	284.00	355.00	439.00		
20.0	130.50	170.50	219.00	278.00	348.00	430.00	526.00	638.00
25.0	127.50	166.50	214.00	272.00	341.00	422.00	517.00	626.00
30.0	124.00	163.00	210.00	267.00	334.00	414.00	507.00	615.00
35.0		159.00	205.00	261.00	327.00	405.00	496.00	603.00
40.0		155.50	201.00	255.00	320.00	396.00	486.00	591.00
45.0			196.00	249.00	312.00	387.00	476.00	579.00
50.0			191.00	243.00	305.00	378.00	465.00	567.00
55.0				237.00	297.00	369.00	454.00	554.00
60.0					289.00	359.00	443.00	542.00
65.0					281.00	349.00	431.00	529.00
70.0						340.00	421.00	

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**COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Number of cylinders	6
Displacement @ 50 Hz, m <sup>3</sup> /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
Base mounting (hole dia), mm	381 x 305 (18)
Sound Pressure @ 1m (LT), dBA	77
Sound Power (LT), dBA	88
Sound Conditions (LT, Temperatures: Evap./Cond./Suction at freq./speed)	-35 / 40 / 20 °C at 50 Hz
Sound Pressure @ 1m (MT), dBA	73
Sound Power (MT), dBA	84
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	67.3
Locked Rotor Current, A	255
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**

<b>Motor Code</b>	<b>Power Supply</b>	<b>Nominal Voltage, V</b>	<b>Start Connection</b>	<b>DOL Connection</b>	<b>Amps Factor</b>
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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