



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

6MM-30

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	25.60	33.10	42.50	53.80	67.10			
15.0	23.90	31.20	40.10	50.80	63.50	78.20		
20.0	22.40	29.30	37.70	47.90	59.90	73.80	89.90	108.00
25.0	20.90	27.40	35.40	45.10	56.40	69.60	84.70	102.00
30.0	19.45	25.60	33.20	42.20	52.90	65.30	79.60	95.80
35.0		23.90	31.00	39.50	49.50	61.10	74.50	89.80
40.0		22.10	28.80	36.70	46.00	56.90	69.40	83.70
45.0			26.60	34.00	42.60	52.70	64.40	77.70
50.0			24.40	31.20	39.30	48.60	59.40	71.70
55.0				28.50	35.90	44.40	54.30	65.70
60.0					32.50	40.20	49.30	59.60
65.0					29.10	36.10	44.20	53.60
70.0						31.80	39.10	

Cond °C	Power, kW							
	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0
10.0	9.28	10.30	11.15	11.85	12.35			
15.0	9.85	11.00	12.05	12.90	13.65	14.10		
20.0	10.35	11.65	12.85	13.95	14.85	15.60	16.05	16.25
25.0	10.80	12.25	13.60	14.90	16.05	17.00	17.75	18.20
30.0	11.15	12.75	14.30	15.80	17.15	18.35	19.35	20.10
35.0		13.20	14.95	16.65	18.20	19.65	20.90	22.00
40.0		13.60	15.55	17.40	19.20	20.90	22.50	23.80
45.0			16.05	18.15	20.20	22.10	23.90	25.60
50.0			16.50	18.80	21.10	23.30	25.40	27.30
55.0				19.40	21.90	24.40	26.80	29.00
60.0					22.70	25.40	28.10	30.60
65.0					23.40	26.40	29.30	32.20
70.0						27.30	30.60	

Compatibility with A2L refrigerants for manufacturing date after 10 2021 only

50 Hz

6MM-30

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	24.10	25.09	26.00	26.75	27.27			
15.0	24.64	25.79	26.89	27.89	28.69	29.24		
20.0	25.14	26.46	27.78	29.02	30.11	30.99	31.57	31.79
25.0	25.59	27.09	28.63	30.13	31.53	32.74	33.71	34.35
30.0	25.99	27.68	29.45	31.22	32.93	34.49	35.85	36.92
35.0		28.21	30.22	32.27	34.30	36.23	37.99	39.50
40.0		28.67	30.93	33.28	35.64	37.94	40.11	42.08
45.0			31.58	34.23	36.93	39.62	42.21	44.64
50.0			32.16	35.12	38.18	41.25	44.28	47.18
55.0				35.94	39.36	42.84	46.30	49.69
60.0					40.47	44.36	48.28	52.16
65.0					41.49	45.81	50.20	54.58
70.0						47.18	52.04	

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	121.50	158.00	203.00	258.00	324.00			
15.0	118.00	154.00	199.00	253.00	317.00	393.00		
20.0	114.50	150.00	194.00	248.00	311.00	385.00	472.00	572.00
25.0	111.00	146.50	190.00	242.00	305.00	378.00	463.00	562.00
30.0	108.00	142.50	185.50	237.00	298.00	370.00	455.00	552.00
35.0		139.00	181.00	232.00	292.00	363.00	446.00	542.00
40.0		135.00	176.50	226.00	285.00	355.00	437.00	531.00
45.0			172.00	221.00	279.00	347.00	427.00	521.00
50.0			167.50	215.00	272.00	339.00	418.00	510.00
55.0				209.00	265.00	331.00	408.00	499.00
60.0					258.00	322.00	398.00	488.00
65.0					250.00	313.00	388.00	477.00
70.0						305.00	379.00	

Compatibility with A2L refrigerants for manufacturing date after 10 2021 only

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	215
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
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	71
Sound Power (MT), dBA	82
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	59.7
Locked Rotor Current, A	255
Default Enclosure Class	IP 54 (IEC 34)

Compatibility with A2L refrigerants for manufacturing date after 10 2021 only

ACCESSORIES INCLUDED

Mounting Parts CoreSense Protection (-P) Oil Pressure Switch (-P) Copeland Compressor Electronic (-N)	Spring Motor protection OPS2 Sensor Oil pressure, motor and discharge line temperature protection; advanced diagnostics features and power measurement
--	--

ACCESSORIES OPTIONAL

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

Compatibility with A2L refrigerants for manufacturing date after 10 2021 only