



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

4MI-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	5.0	7.0	10.0	12.5	15.0
10.0	17.25	22.10	28.10	35.60	44.40								
15.0	16.00	20.60	26.40	33.50	41.90	51.90							
20.0	14.85	19.30	24.80	31.50	39.50	48.90	59.80	72.30					
25.0	13.70	18.00	23.20	29.60	37.10	46.00	56.30	68.10	81.50	87.30			
30.0	12.65	16.70	21.70	27.70	34.80	43.10	52.80	63.90	76.50	82.00	90.80	98.60	
35.0		15.50	20.20	25.80	32.50	40.30	49.30	59.70	71.60	76.70	85.00	92.30	
40.0		14.25	18.70	24.00	30.20	37.50	45.90	55.60	66.70	71.50	79.20	86.00	
45.0			17.25	22.20	28.00	34.70	42.50	51.50	61.80	66.30	73.40	79.80	
50.0				20.40	25.70	31.90	39.10	47.40	56.90	61.10	67.70	73.60	
55.0				18.55	23.50	29.20	35.80	43.30	52.00	55.80	61.90	67.40	
60.0					21.20	26.40	32.40	39.30	47.20	50.60	56.20	61.10	
65.0					18.95	23.60	29.00	35.10	42.30	45.40	50.40	54.90	
70.0						20.80	25.50	31.00	37.30	40.10	44.60	48.60	

Cond °C	Power, kW												
	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
10.0	6.02	6.63	7.14	7.53	7.79								
15.0	6.47	7.18	7.80	8.31	8.69	8.93							
20.0	6.84	7.66	8.40	9.03	9.54	9.91	10.15	10.20					
25.0	7.13	8.07	8.93	9.69	10.35	10.85	11.25	11.45	11.50	11.45			
30.0	7.33	8.40	9.39	10.30	11.10	11.75	12.30	12.65	12.90	12.90	12.90	12.85	
35.0		8.65	9.78	10.85	11.80	12.60	13.30	13.85	14.25	14.35	14.45	14.50	
40.0		8.82	10.10	11.30	12.40	13.40	14.30	15.05	15.60	15.80	16.00	16.15	
45.0			10.35	11.75	13.00	14.20	15.25	16.15	16.95	17.20	17.55	17.80	
50.0				12.10	13.55	14.90	16.15	17.30	18.25	18.60	19.10	19.45	
55.0				12.40	14.05	15.60	17.05	18.40	19.55	20.00	20.60	21.10	
60.0					14.50	16.25	17.90	19.45	20.90	21.40	22.10	22.70	
65.0					14.90	16.85	18.70	20.50	22.10	22.70	23.60	24.30	
70.0						17.40	19.50	21.50	23.40	24.10	25.10	25.90	

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Cond °C	Current at 400 V, A												
	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
10.0	18.05	18.59	19.07	19.45	19.70								
15.0	18.44	19.08	19.67	20.17	20.56	20.80							
20.0	18.78	19.53	20.24	20.88	21.42	21.83	22.08	22.12					
25.0	19.05	19.92	20.76	21.56	22.27	22.86	23.31	23.57	23.62	23.57			
30.0	19.24	20.25	21.25	22.21	23.10	23.90	24.55	25.05	25.34	25.39	25.40	25.33	
35.0		20.51	21.67	22.82	23.91	24.92	25.80	26.54	27.09	27.26	27.43	27.51	
40.0		20.69	22.04	23.38	24.69	25.92	27.05	28.05	28.88	29.15	29.50	29.73	
45.0			22.34	23.89	25.42	26.90	28.29	29.56	30.68	31.08	31.61	32.00	
50.0				24.34	26.11	27.85	29.51	31.07	32.49	33.02	33.74	34.30	
55.0				24.72	26.75	28.76	30.71	32.57	34.31	34.97	35.90	36.62	
60.0					27.32	29.62	31.87	34.05	36.13	36.92	38.06	38.97	
65.0					27.83	30.42	33.00	35.51	37.93	38.87	40.23	41.33	
70.0						31.17	34.07	36.93	39.72	40.81	42.40	43.69	

Cond °C	Suction Mass Flow, g/s												
	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
10.0	82.10	105.50	134.50	170.50	214.00								
15.0	79.00	102.00	131.00	166.50	210.00	261.00							
20.0	76.00	98.90	127.50	163.00	205.00	255.00	314.00	383.00					
25.0	73.00	96.00	124.50	159.00	201.00	250.00	308.00	375.00	454.00	488.00			
30.0	70.10	93.00	121.00	155.50	196.00	245.00	301.00	368.00	445.00	479.00	535.00	585.00	
35.0		90.10	118.00	151.50	192.00	239.00	295.00	360.00	436.00	470.00	525.00	574.00	
40.0		87.20	115.00	148.00	187.50	234.00	289.00	353.00	428.00	461.00	515.00	564.00	
45.0			111.50	144.00	183.00	228.00	282.00	345.00	419.00	452.00	505.00	553.00	
50.0				140.50	178.00	223.00	276.00	337.00	410.00	442.00	495.00	542.00	
55.0				136.50	173.50	217.00	269.00	329.00	400.00	432.00	484.00	532.00	
60.0					168.50	211.00	262.00	321.00	391.00	423.00	474.00	521.00	
65.0					163.50	205.00	255.00	313.00	382.00	413.00	464.00	511.00	
70.0						199.00	248.00	305.00	374.00	405.00	456.00	503.00	

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COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	4
Displacement @ 50 Hz, m ³ /h	78.2
Bore/Stroke, mm	71.5/56.0
Length/Width, mm	657/501
Height, mm	452
Net Weight, kg	188
Suction, inch	2 1/8
Discharge, inch	1 1/8
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	74
Sound Power (LT), dBA	85
Sound Conditions (LT, Temperatures: Evap./Cond./Suction at freq./speed)	-35 / 40 / 20 °C at 50 Hz
Sound Pressure @ 1m (MT), dBA	70
Sound Power (MT), dBA	81
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	46.6
Locked Rotor Current, A	230
Default Enclosure Class	IP 54 (IEC 34)

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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
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ACCESSORIES OPTIONAL

Additional Cooling Capacity Control Crankcase Heater Oil Pressure Switch Adapter Kit Check Valve Sound Attenuation Mounting Parts Copeland Compressor Electronic module	70 W Vertical Air Flow Fan Capacity Steps 50% 100 W Internal OPS2 Electronic Switch For Parallel Operation For unloaded start operation Sound Shell Rubber Modbus extension module
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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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