



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

4MH-25

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	14.85	19.15	24.60	31.20	39.10								
15.0	14.00	18.15	23.30	29.60	37.20	46.10							
20.0	13.10	17.10	22.00	28.00	35.20	43.70	53.60	64.90					
25.0	12.20	16.05	20.70	26.50	33.30	41.30	50.70	61.40	73.80	79.10			
30.0	11.35	15.00	19.45	24.80	31.30	38.90	47.70	57.90	69.60	74.70	82.80	90.10	
35.0		13.90	18.10	23.20	29.30	36.40	44.70	54.30	65.30	70.10	77.80	84.70	
40.0		12.85	16.80	21.50	27.20	33.90	41.70	50.70	61.00	65.60	72.80	79.30	
45.0			15.45	19.85	25.10	31.30	38.60	47.00	56.70	60.90	67.70	73.80	
50.0				18.15	23.00	28.70	35.50	43.30	52.30	56.20	62.60	68.20	
55.0				16.45	20.90	26.10	32.30	39.50	47.80	51.50	57.30	62.60	
60.0					18.70	23.50	29.10	35.60	43.30	46.60	52.10	56.90	
65.0					16.50	20.80	25.80	31.80	38.70	41.80	46.70	51.20	
70.0						18.05	22.50	27.80	34.10	36.80	41.30	45.30	

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	5.49	6.04	6.50	6.85	7.04								
15.0	5.79	6.43	7.01	7.48	7.81	7.97							
20.0	6.04	6.78	7.47	8.07	8.54	8.86	8.98	8.88					
25.0	6.24	7.08	7.89	8.61	9.23	9.70	10.00	10.10	9.91	9.77			
30.0	6.40	7.34	8.26	9.11	9.87	10.50	10.95	11.25	11.30	11.20	11.05	10.80	
35.0		7.55	8.58	9.56	10.45	11.25	11.90	12.35	12.60	12.60	12.60	12.45	
40.0		7.71	8.86	9.97	11.00	11.95	12.80	13.45	13.85	14.00	14.10	14.10	
45.0			9.09	10.35	11.55	12.65	13.60	14.45	15.10	15.30	15.55	15.65	
50.0				10.65	12.00	13.25	14.40	15.45	16.30	16.60	16.95	17.15	
55.0				10.90	12.40	13.85	15.15	16.40	17.45	17.80	18.30	18.65	
60.0					12.80	14.35	15.90	17.30	18.55	19.00	19.60	20.10	
65.0					13.10	14.85	16.55	18.15	19.60	20.10	20.90	21.50	
70.0						15.30	17.15	18.95	20.60	21.20	22.10	22.80	

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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	17.68	18.15	18.57	18.88	19.05								
15.0	17.92	18.47	18.99	19.43	19.75	19.89							
20.0	18.13	18.77	19.40	19.97	20.45	20.77	20.90	20.78					
25.0	18.31	19.04	19.79	20.50	21.14	21.65	21.98	22.10	21.94	21.80			
30.0	18.45	19.28	20.15	21.01	21.81	22.51	23.06	23.41	23.52	23.49	23.34	23.13	
35.0		19.49	20.48	21.49	22.47	23.37	24.14	24.73	25.11	25.18	25.21	25.15	
40.0		19.65	20.78	21.94	23.10	24.20	25.19	26.04	26.68	26.88	27.09	27.18	
45.0			21.02	22.35	23.69	25.00	26.23	27.33	28.25	28.56	28.96	29.21	
50.0				22.72	24.25	25.77	27.24	28.60	29.81	30.24	30.82	31.23	
55.0				23.03	24.76	26.51	28.21	29.84	31.34	31.89	32.66	33.24	
60.0					25.22	27.19	29.15	31.05	32.84	33.52	34.49	35.24	
65.0					25.62	27.83	30.04	32.22	34.31	35.12	36.28	37.20	
70.0						28.40	30.88	33.34	35.74	36.68	38.04	39.13	

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	70.70	91.40	117.50	149.50	188.50								
15.0	68.90	89.60	115.50	147.50	186.00	232.00							
20.0	67.00	87.60	113.50	145.00	183.00	228.00	281.00	344.00					
25.0	65.10	85.60	111.00	142.00	179.50	224.00	277.00	339.00	411.00	443.00			
30.0	63.00	83.40	108.50	139.50	176.50	220.00	272.00	333.00	405.00	436.00	488.00	534.00	
35.0		81.00	106.00	136.00	172.50	216.00	267.00	328.00	398.00	430.00	481.00	527.00	
40.0		78.40	103.00	133.00	168.50	211.00	262.00	322.00	392.00	423.00	473.00	519.00	
45.0			99.80	129.00	164.00	206.00	256.00	315.00	384.00	415.00	466.00	511.00	
50.0				125.00	159.50	201.00	250.00	308.00	376.00	407.00	457.00	503.00	
55.0				120.50	154.00	194.50	243.00	300.00	368.00	398.00	448.00	494.00	
60.0					148.50	188.00	235.00	292.00	359.00	389.00	439.00	485.00	
65.0					142.00	180.50	227.00	283.00	350.00	380.00	430.00	477.00	
70.0						173.00	219.00	274.00	341.00	372.00	422.00	469.00	

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COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	4
Displacement @ 50 Hz, m ³ /h	71.4
Bore/Stroke, mm	68.3/56.0
Length/Width, mm	657/501
Height, mm	452
Net Weight, kg	187
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	75
Sound Power (LT), dBA	86
Sound Conditions (LT, Temperatures: Evap./Cond./Suction at freq./speed)	-35 / 40 / 20 °C at 50 Hz
Sound Pressure @ 1m (MT), dBA	69
Sound Power (MT), dBA	80
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	41.6
Locked Rotor Current, A	199
Default Enclosure Class	IP 54 (IEC 34)

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ACCESSORIES INCLUDED

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

<p>Additional Cooling Capacity Control Crankcase Heater Oil Pressure Switch Adapter Kit Check Valve Sound Attenuation Mounting Parts Copeland Compressor Electronic module</p>	<p>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</p>
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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	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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