



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

6MI-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	5.0	7.0	10.0	12.5	15.0
10.0	25.50	32.80	42.00	53.30	66.90								
15.0	23.80	30.80	39.60	50.40	63.20	78.40							
20.0	22.20	28.90	37.30	47.50	59.60	74.00	90.70	110.00					
25.0	20.70	27.10	35.10	44.70	56.10	69.70	85.40	103.50	124.50	133.50			
30.0	19.25	25.40	32.90	41.90	52.70	65.40	80.20	97.20	116.50	125.00	139.00	151.00	
35.0		23.60	30.70	39.20	49.30	61.20	75.00	90.90	109.00	117.00	130.00	141.50	
40.0		21.90	28.60	36.50	45.90	57.00	69.80	84.70	102.00	109.50	121.00	132.00	
45.0			26.50	33.90	42.60	52.80	64.70	78.50	94.40	101.50	112.50	122.50	
50.0				31.20	39.20	48.60	59.60	72.30	87.00	93.40	103.50	113.00	
55.0				28.50	35.90	44.50	54.50	66.10	79.50	85.50	94.90	103.50	
60.0					32.50	40.30	49.40	59.90	72.10	77.50	86.20	93.90	
65.0					29.10	36.00	44.20	53.70	64.70	69.60	77.40	84.40	
70.0						31.80	39.00	47.40	57.20	61.50	68.60	74.90	

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	9.21	9.98	10.65	11.25	11.65								
15.0	9.97	10.90	11.75	12.55	13.15	13.60							
20.0	10.60	11.70	12.75	13.70	14.55	15.15	15.60	15.80					
25.0	11.05	12.35	13.65	14.80	15.80	16.70	17.35	17.80	17.95	17.90			
30.0	11.40	12.90	14.40	15.75	17.05	18.15	19.05	19.70	20.10	20.20	20.20	20.10	
35.0		13.30	15.00	16.65	18.15	19.50	20.60	21.60	22.20	22.40	22.60	22.70	
40.0		13.60	15.55	17.40	19.15	20.80	22.20	23.40	24.30	24.60	25.00	25.20	
45.0			15.95	18.05	20.10	22.00	23.70	25.20	26.40	26.80	27.30	27.70	
50.0				18.65	20.90	23.10	25.10	26.90	28.40	28.90	29.70	30.20	
55.0				19.10	21.70	24.10	26.40	28.50	30.40	31.00	32.00	32.60	
60.0					22.30	25.10	27.70	30.10	32.30	33.10	34.20	35.10	
65.0					22.90	26.00	28.90	31.70	34.20	35.10	36.40	37.50	
70.0						26.80	30.00	33.10	36.00	37.10	38.60	39.90	

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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	27.91	28.61	29.27	29.82	30.22								
15.0	28.58	29.44	30.27	31.02	31.64	32.07							
20.0	29.14	30.18	31.21	32.19	33.05	33.74	34.20	34.39					
25.0	29.60	30.83	32.08	33.30	34.42	35.40	36.17	36.68	36.87	36.85			
30.0	29.92	31.37	32.87	34.35	35.76	37.04	38.13	38.99	39.55	39.68	39.76	39.72	
35.0		31.80	33.56	35.32	37.04	38.64	40.09	41.32	42.27	42.56	42.89	43.06	
40.0		32.10	34.14	36.21	38.25	40.21	42.02	43.64	45.01	45.47	46.06	46.46	
45.0			34.60	37.00	39.39	41.72	43.93	45.96	47.76	48.40	49.27	49.90	
50.0				37.68	40.44	43.16	45.78	48.25	50.50	51.33	52.49	53.37	
55.0				38.24	41.39	44.53	47.58	50.50	53.24	54.26	55.72	56.86	
60.0					42.23	45.80	49.31	52.71	55.95	57.18	58.95	60.36	
65.0					42.95	46.97	50.97	54.86	58.62	60.06	62.17	63.85	
70.0						48.03	52.52	56.94	61.24	62.91	65.35	67.32	

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	121.00	156.50	201.00	256.00	323.00								
15.0	117.50	152.50	196.50	251.00	316.00	394.00							
20.0	113.50	148.50	192.00	245.00	310.00	386.00	476.00	582.00					
25.0	110.00	145.00	188.00	240.00	303.00	378.00	467.00	571.00	692.00	746.00			
30.0	107.00	141.00	183.50	235.00	297.00	371.00	458.00	560.00	679.00	732.00	818.00	895.00	
35.0		137.50	179.50	230.00	291.00	363.00	449.00	549.00	666.00	718.00	803.00	880.00	
40.0		134.00	175.50	225.00	285.00	355.00	439.00	538.00	653.00	704.00	788.00	864.00	
45.0			171.00	220.00	278.00	347.00	429.00	526.00	640.00	690.00	773.00	848.00	
50.0				215.00	272.00	339.00	420.00	514.00	626.00	676.00	758.00	832.00	
55.0				209.00	265.00	331.00	409.00	502.00	612.00	662.00	742.00	816.00	
60.0					258.00	322.00	399.00	490.00	598.00	647.00	727.00	801.00	
65.0					250.00	313.00	388.00	478.00	585.00	633.00	713.00	786.00	
70.0						304.00	378.00	466.00	573.00	621.00	701.00	774.00	

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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	219
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	71.4
Locked Rotor Current, A	321
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 Digital Modulation Discharge Shut-off Copeland Compressor Electronic module</p>	<p>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</p>
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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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