



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

6MJ-45

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	28.50	36.60	46.90	59.60	74.70								
15.0	26.70	34.50	44.20	56.20	70.60	87.50							
20.0	25.00	32.40	41.70	53.00	66.50	82.50	101.00	122.50					
25.0	23.30	30.40	39.10	49.80	62.50	77.50	95.00	115.00	138.00	148.00			
30.0	21.70	28.40	36.70	46.70	58.60	72.70	89.10	108.00	129.50	139.00	154.00	167.00	
35.0		26.50	34.30	43.60	54.80	67.90	83.20	101.00	121.00	130.00	144.00	156.50	
40.0		24.60	31.90	40.60	51.00	63.20	77.40	93.80	112.50	121.00	134.00	145.50	
45.0			29.50	37.60	47.20	58.50	71.60	86.80	104.00	112.00	124.00	135.00	
50.0				34.60	43.40	53.80	65.80	79.80	95.80	103.00	114.00	124.00	
55.0				31.60	39.70	49.10	60.10	72.80	87.50	94.00	104.50	113.50	
60.0					35.90	44.40	54.30	65.80	79.20	85.00	94.50	103.00	
65.0					32.00	39.70	48.50	58.90	70.80	76.10	84.60	92.30	
70.0						34.90	42.70	51.80	62.50	67.20	74.80	81.60	

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	9.95	10.90	11.70	12.35	12.75								
15.0	10.80	11.95	12.95	13.85	14.50	14.90							
20.0	11.55	12.85	14.10	15.20	16.10	16.75	17.10	17.10					
25.0	12.10	13.60	15.10	16.45	17.60	18.55	19.20	19.50	19.45	19.30			
30.0	12.55	14.25	15.95	17.55	19.00	20.20	21.20	21.80	22.10	22.10	21.90	21.60	
35.0		14.75	16.70	18.55	20.30	21.80	23.10	24.10	24.70	24.80	24.90	24.80	
40.0		15.10	17.30	19.40	21.40	23.30	24.90	26.20	27.20	27.50	27.80	27.90	
45.0			17.80	20.20	22.50	24.60	26.60	28.30	29.60	30.00	30.60	30.90	
50.0				20.80	23.40	25.90	28.20	30.20	32.00	32.60	33.30	33.90	
55.0				21.30	24.30	27.10	29.70	32.10	34.30	35.00	36.00	36.80	
60.0					25.00	28.10	31.10	33.90	36.50	37.40	38.70	39.60	
65.0					25.60	29.10	32.50	35.70	38.60	39.70	41.20	42.40	
70.0						30.00	33.70	37.30	40.70	41.90	43.70	45.10	

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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	28.06	29.01	29.86	30.54	30.96								
15.0	28.91	30.04	31.11	32.05	32.76	33.18							
20.0	29.63	30.97	32.28	33.49	34.52	35.28	35.70	35.68					
25.0	30.22	31.78	33.36	34.87	36.23	37.35	38.17	38.59	38.54	38.36			
30.0	30.67	32.48	34.33	36.16	37.87	39.38	40.62	41.50	41.93	41.97	41.85	41.59	
35.0		33.03	35.19	37.35	39.43	41.35	43.03	44.38	45.33	45.58	45.79	45.82	
40.0		33.43	35.91	38.42	40.90	43.24	45.38	47.23	48.71	49.18	49.74	50.06	
45.0			36.49	39.38	42.26	45.05	47.67	50.04	52.07	52.77	53.69	54.31	
50.0				40.20	43.51	46.76	49.88	52.78	55.39	56.33	57.61	58.55	
55.0				40.86	44.62	48.36	52.00	55.46	58.65	59.84	61.50	62.77	
60.0					45.59	49.84	54.02	58.05	61.85	63.29	65.35	66.95	
65.0					46.41	51.18	55.92	60.54	64.98	66.68	69.13	71.08	
70.0						52.37	57.68	62.92	68.01	69.98	72.85	75.16	

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	135.50	174.50	225.00	286.00	360.00								
15.0	131.50	170.50	219.00	280.00	353.00	439.00							
20.0	127.50	166.00	214.00	274.00	345.00	430.00	531.00	648.00					
25.0	124.00	162.00	210.00	268.00	338.00	421.00	520.00	635.00	768.00	828.00			
30.0	120.50	158.00	205.00	262.00	331.00	412.00	509.00	622.00	753.00	812.00	906.00	991.00	
35.0		154.00	200.00	256.00	323.00	403.00	498.00	608.00	738.00	795.00	888.00	973.00	
40.0		150.50	195.50	250.00	316.00	394.00	486.00	595.00	722.00	779.00	871.00	954.00	
45.0			191.00	244.00	308.00	385.00	475.00	581.00	706.00	762.00	852.00	935.00	
50.0				238.00	301.00	375.00	463.00	567.00	690.00	745.00	834.00	915.00	
55.0				232.00	293.00	365.00	451.00	553.00	673.00	727.00	816.00	896.00	
60.0					285.00	355.00	439.00	539.00	657.00	710.00	797.00	877.00	
65.0					276.00	345.00	426.00	524.00	640.00	693.00	780.00	859.00	
70.0						334.00	414.00	510.00	625.00	678.00	764.00	844.00	

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COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	6
Displacement @ 50 Hz, m ³ /h	135
Bore/Stroke, mm	75.7/57.5
Length/Width, mm	725/547
Height, mm	450
Net Weight, kg	223
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	79
Sound Power (LT), dBA	90
Sound Conditions (LT, Temperatures: Evap./Cond./Suction at freq./speed)	-35 / 40 / 20 °C at 50 Hz
Sound Pressure @ 1m (MT), dBA	74
Sound Power (MT), dBA	85
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	81.5
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 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 % 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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