



Minimum Evaporating Temp. With:

- 10 K Suction Superheat
- 20 °C Suction Gas Return
- Maximum Evaporating Temperature

Compatibility with A2L refrigerants for manufacturing date after 02 2023 only

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	36.10	47.00	60.70	77.50	97.50								
15.0	34.10	44.60	57.80	73.80	92.90	115.50							
20.0	32.10	42.30	54.80	70.00	88.20	109.50	134.50	163.00					
25.0	30.20	39.90	51.80	66.30	83.50	103.50	127.00	154.00	185.00	198.50			
30.0	28.20	37.50	48.80	62.50	78.70	97.80	120.00	145.50	174.50	187.00	207.00	225.00	
35.0		35.00	45.80	58.60	73.90	91.80	112.50	136.50	164.00	176.00	195.00	212.00	
40.0		32.60	42.70	54.70	69.00	85.60	105.00	127.50	153.00	164.00	182.00	198.00	
45.0			39.50	50.70	63.90	79.40	97.40	118.00	142.00	152.50	169.00	184.00	
50.0			36.20	46.60	58.80	73.10	89.70	109.00	131.00	140.50	156.00	170.00	
55.0				42.40	53.60	66.60	81.80	99.40	119.50	128.50	142.50	155.50	
60.0					48.20	60.00	73.70	89.70	108.00	116.00	129.50	141.00	
65.0					42.70	53.20	65.50	79.80	96.40	104.00	115.50		
70.0						46.30	57.10	69.80	84.60				

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	12.85	14.30	15.55	16.60	17.30								
15.0	14.20	15.85	17.30	18.55	19.55	20.30							
20.0	15.30	17.15	18.90	20.40	21.70	22.70	23.30	23.70					
25.0	16.25	18.35	20.30	22.10	23.60	24.90	25.90	26.60	26.90	26.90			
30.0	16.95	19.30	21.50	23.60	25.50	27.10	28.40	29.40	30.10	30.20	30.30	30.30	
35.0		20.10	22.60	25.00	27.20	29.10	30.80	32.20	33.30	33.60	33.90	34.10	
40.0		20.70	23.50	26.20	28.70	31.10	33.10	34.90	36.40	36.80	37.40	37.80	
45.0			24.20	27.30	30.20	32.90	35.30	37.50	39.40	40.00	40.90	41.50	
50.0			24.80	28.20	31.50	34.50	37.40	40.00	42.30	43.20	44.30	45.20	
55.0				29.00	32.60	36.10	39.40	42.40	45.20	46.20	47.70	48.80	
60.0					33.60	37.60	41.30	44.80	48.00	49.30	51.00	52.30	
65.0					34.50	38.90	43.10	47.10	50.80	52.20	54.30		
70.0						40.10	44.80	49.20	53.50				

Compatibility with A2L refrigerants for manufacturing date after 02 2023 only

50 Hz

8DJ-600

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	5.0	7.0	10.0	12.5	15.0
10.0	45.11	46.39	47.56	48.55	49.27								
15.0	46.27	47.71	49.10	50.34	51.35	52.04							
20.0	47.28	48.93	50.56	52.08	53.40	54.45	55.15	55.40					
25.0	48.13	50.02	51.92	53.74	55.42	56.86	57.97	58.69	58.92	58.86			
30.0	48.81	50.96	53.16	55.33	57.38	59.24	60.81	62.02	62.78	62.94	63.01	62.90	
35.0		51.75	54.28	56.82	59.28	61.58	63.64	65.37	66.69	67.09	67.52	67.72	
40.0		52.36	55.26	58.20	61.10	63.88	66.45	68.73	70.65	71.29	72.10	72.64	
45.0			56.08	59.45	62.82	66.11	69.23	72.09	74.63	75.53	76.74	77.62	
50.0			56.72	60.56	64.43	68.25	71.95	75.43	78.62	79.79	81.43	82.66	
55.0				61.51	65.91	70.31	74.61	78.74	82.60	84.06	86.13	87.74	
60.0					67.25	72.24	77.18	81.99	86.57	88.32	90.85	92.85	
65.0					68.43	74.06	79.67	85.18	90.50	92.56	95.57		
70.0						75.72	82.03	88.28	94.39				

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	172.00	224.00	291.00	372.00	470.00								
15.0	168.50	221.00	286.00	367.00	464.00	580.00							
20.0	164.50	217.00	282.00	362.00	458.00	572.00	706.00	863.00					
25.0	160.50	213.00	278.00	356.00	451.00	564.00	696.00	851.00	1030.00	1110.00			
30.0	156.50	209.00	273.00	351.00	444.00	555.00	685.00	838.00	1015.00	1094.00	1222.00	1337.00	
35.0		204.00	268.00	344.00	436.00	545.00	673.00	824.00	999.00	1077.00	1203.00	1318.00	
40.0		199.00	262.00	337.00	427.00	534.00	660.00	808.00	982.00	1059.00	1184.00	1297.00	
45.0			255.00	329.00	418.00	523.00	646.00	792.00	963.00	1039.00	1163.00	1275.00	
50.0			248.00	321.00	407.00	510.00	631.00	774.00	942.00	1018.00	1140.00	1252.00	
55.0				311.00	396.00	496.00	614.00	755.00	921.00	995.00	1116.00	1227.00	
60.0					382.00	480.00	596.00	734.00	897.00	971.00	1091.00	1201.00	
65.0					367.00	462.00	576.00	711.00	872.00	945.00	1065.00		
70.0						443.00	554.00	687.00	846.00				

Compatibility with A2L refrigerants for manufacturing date after 02 2023 only

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	8
Displacement @ 50 Hz, m ³ /h	181
Bore/Stroke, mm	74.7/59.2
Length/Width, mm	835/475
Height, mm	610
Net Weight, kg	331
Gross Weight, kg	352
Suction, inch	3 1/8
Discharge, inch	1 5/8
Drive Frequency Range, Hz	25 - 60
Oil Quantity, l	7.6
Oil type (original charge)	POE RL32-3MAF
Oil type (approved oils)	POE RL32-3MAF
Base mounting (hole dia), mm	457 x 305 (18)
Sound Pressure @ 1m, dBA	79.5
Sound Power, dBA	90.5
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	108
Locked Rotor Current, A	476
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

Oil Pressure Switch	OPS2 Sensor
Mounting Springs	4
Deep Oil Sump	Mounted

Compatibility with A2L refrigerants for manufacturing date after 02 2023 only

ACCESSORIES OPTIONAL

Additional Cooling	70 W Vertical Air Flow Fan
Capacity Control	Capacity Steps 75/50%
Crankcase Heater	200 W Internal
Enclosure Class	IP 56
Oil Pressure Switch	OPS2 Electronic Switch
Unloaded start	Available
Adapter Kit	For Parallel Operation
Check Valve	For unloaded start operation
Oil Control System	ALCO Trax-Oil OM3

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	YY/Y	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	YY/Y	Y	1.73
AWY	500-550 V / 3~ / 50 Hz	525	YY/Y	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	YY/Y	Y	2.19
AWX	380 V / 3~ / 60 Hz	380	YY/Y	Y	1.20
AWD	440-480 V / 3~ / 60 Hz	460	YY/Y	Y	1.00

Compatibility with A2L refrigerants for manufacturing date after 02 2023 only