



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	29.40	38.20	49.40	63.30	80.10								
15.0	27.90	36.40	47.20	60.50	76.50	95.40							
20.0	26.30	34.50	44.80	57.50	72.80	90.80	112.00	136.00					
25.0	24.70	32.60	42.40	54.50	69.00	86.10	106.00	129.00	155.00	166.50			
30.0	23.00	30.60	40.00	51.40	65.00	81.20	100.00	121.50	146.50	157.50	175.00	190.00	
35.0		28.50	37.40	48.20	61.00	76.20	93.90	114.50	138.00	148.00	164.50	179.00	
40.0		26.40	34.70	44.90	56.90	71.10	87.70	107.00	129.00	138.50	154.00	167.50	
45.0			32.00	41.40	52.70	65.90	81.30	99.20	119.50	128.50	143.00	156.00	
50.0			29.20	37.90	48.30	60.50	74.80	91.40	110.50	119.00	132.00	144.00	
55.0				34.30	43.80	55.10	68.20	83.50	101.00	109.00	121.00	132.50	
60.0					39.30	49.50	61.40	75.40	91.50	98.60	110.00	120.00	
65.0					34.60	43.70	54.50	67.10	81.70	88.20	98.60		
70.0						37.90	47.50	58.70	71.80				

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	10.40	11.80	12.95	13.80	14.35								
15.0	11.65	13.20	14.50	15.55	16.35	16.75							
20.0	12.70	14.45	15.95	17.20	18.20	18.90	19.20	19.15					
25.0	13.60	15.50	17.20	18.70	19.95	20.90	21.50	21.80	21.60	21.40			
30.0	14.30	16.40	18.35	20.10	21.60	22.80	23.70	24.20	24.40	24.40	24.20	24.00	
35.0		17.15	19.30	21.30	23.00	24.50	25.70	26.60	27.20	27.30	27.30	27.30	
40.0		17.75	20.10	22.40	24.40	26.20	27.70	28.90	29.80	30.10	30.40	30.50	
45.0			20.80	23.30	25.60	27.70	29.60	31.20	32.40	32.80	33.30	33.70	
50.0			21.30	24.10	26.70	29.10	31.30	33.30	34.90	35.50	36.20	36.80	
55.0				24.80	27.70	30.40	33.00	35.30	37.30	38.10	39.10	39.80	
60.0					28.50	31.60	34.50	37.20	39.70	40.60	41.80	42.80	
65.0					29.30	32.70	36.00	39.10	41.90	43.00	44.50		
70.0						33.70	37.30	40.80	44.10				

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50 Hz

8DH-500

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	45.24	46.29	47.19	47.88	48.28								
15.0	46.13	47.32	48.40	49.29	49.93	50.26							
20.0	46.94	48.28	49.55	50.66	51.56	52.18	52.46	52.32					
25.0	47.64	49.16	50.63	51.99	53.17	54.10	54.72	54.96	54.75	54.53			
30.0	48.22	49.94	51.64	53.25	54.73	55.98	56.96	57.60	57.83	57.79	57.58	57.25	
35.0		50.60	52.55	54.44	56.23	57.83	59.19	60.24	60.92	61.06	61.15	61.08	
40.0		51.14	53.35	55.54	57.65	59.62	61.38	62.86	64.00	64.35	64.73	64.93	
45.0			54.02	56.53	59.00	61.35	63.52	65.45	67.08	67.62	68.33	68.79	
50.0			54.56	57.40	60.24	62.99	65.60	68.00	70.12	70.88	71.90	72.65	
55.0				58.14	61.36	64.53	67.59	70.48	73.12	74.10	75.46	76.49	
60.0					62.35	65.96	69.49	72.88	76.06	77.26	78.97	80.30	
65.0					63.20	67.26	71.28	75.19	78.93	80.37	82.43		
70.0						68.42	72.95	77.40	81.72				

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	140.00	182.00	237.00	304.00	386.00								
15.0	137.50	180.00	234.00	301.00	382.00	480.00							
20.0	134.50	177.00	231.00	297.00	378.00	474.00	587.00	720.00					
25.0	131.50	174.00	227.00	293.00	373.00	468.00	580.00	711.00	864.00	932.00			
30.0	128.00	170.00	223.00	288.00	367.00	460.00	571.00	701.00	853.00	920.00	1029.00	1128.00	
35.0		166.00	219.00	283.00	360.00	452.00	562.00	690.00	840.00	907.00	1015.00	1113.00	
40.0		161.00	213.00	276.00	353.00	444.00	551.00	678.00	827.00	893.00	1000.00	1098.00	
45.0			207.00	269.00	344.00	434.00	540.00	665.00	812.00	877.00	984.00	1081.00	
50.0			200.00	261.00	335.00	422.00	527.00	650.00	795.00	861.00	966.00	1063.00	
55.0				252.00	324.00	410.00	512.00	634.00	778.00	842.00	948.00	1044.00	
60.0					312.00	396.00	496.00	616.00	759.00	823.00	928.00	1024.00	
65.0					298.00	380.00	479.00	597.00	739.00	803.00	908.00		
70.0						363.00	460.00	577.00	718.00				

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COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	8
Displacement @ 50 Hz, m ³ /h	151
Bore/Stroke, mm	68.3/59.3
Length/Width, mm	835/475
Height, mm	610
Net Weight, kg	330
Gross Weight, kg	351
Suction, inch	2 5/8
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
Sound Power, dBA	90
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	88.2
Locked Rotor Current, A	458
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

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

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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

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