



Minimum Evaporating Temp. With:	
— 20 °C Suction Gas Return ASERCOM certified	— 20 °C Suction Gas Return
— 20 °C Suction Gas Return with add cooling	
— Maximum Evaporating Temperature	

Suction Return Temperature 18.3°C

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW										
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0
10.0	33.50	43.80	56.20	71.00	88.50	109.00	132.50	159.50			
15.0	31.10	41.10	53.00	67.10	83.70	103.00	125.50	151.00	180.50		
20.0	28.60	38.30	49.70	63.10	78.90	97.30	118.50	142.50	170.50	202.00	215.00
25.0	26.00	35.40	46.30	59.10	74.00	91.30	111.00	134.00	160.00	189.50	203.00
30.0	23.40	32.40	42.80	54.90	68.90	85.20	104.00	125.50	150.00	177.50	189.50
35.0	20.70	29.30	39.20	50.60	63.80	79.00	96.50	116.50	139.50	165.50	176.50
40.0		26.10	35.50	46.20	58.50	72.60	88.90	107.50	129.00	153.00	163.50
45.0		22.90	31.70	41.70	53.10	66.20	81.20	98.40	118.00	140.50	150.50
50.0		19.60	27.90	37.20	47.70	59.70	73.40	89.20	107.50	128.00	137.00
55.0			24.00	32.50	42.10	53.00	65.50	79.90	96.30	115.00	
60.0			20.00	27.80	36.50	46.30	57.50	70.40	85.20		
62.0			18.40	25.90	34.20	43.60	54.30	66.60			

50 Hz

8DH-500

R404A Dew Point

Cond °C	Power, kW										
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0
10.0	14.45	15.90	17.15	18.20	18.95	19.35	19.30	18.80			
15.0	15.05	16.75	18.30	19.65	20.70	21.50	21.80	21.70	21.00		
20.0	15.50	17.45	19.30	21.00	22.40	23.50	24.20	24.50	24.20	23.40	22.90
25.0	15.80	18.05	20.20	22.20	23.90	25.40	26.50	27.20	27.40	27.00	26.70
30.0	16.00	18.50	20.90	23.20	25.30	27.20	28.70	29.80	30.40	30.50	30.40
35.0	16.05	18.85	21.60	24.20	26.70	28.90	30.80	32.30	33.30	33.90	34.00
40.0		19.05	22.10	25.10	27.90	30.50	32.80	34.70	36.20	37.30	37.50
45.0		19.15	22.50	25.80	29.00	32.00	34.70	37.00	39.00	40.60	41.00
50.0		19.15	22.80	26.50	30.00	33.40	36.50	39.30	41.80	43.80	44.50
55.0			23.10	27.10	31.00	34.70	38.30	41.50	44.40	47.00	
60.0			23.20	27.60	31.80	36.00	40.00	43.70	47.10		
62.0			23.20	27.70	32.20	36.50	40.60	44.50			

Cond °C	Current at 400 V, A										
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0
10.0	48.61	49.53	50.51	51.41	52.12	52.51	52.45	51.83			
15.0	49.05	50.18	51.41	52.61	53.65	54.41	54.77	54.60	53.78		
20.0	49.40	50.77	52.28	53.79	55.20	56.36	57.16	57.47	57.17	56.13	55.48
25.0	49.64	51.28	53.09	54.95	56.74	58.34	59.61	60.43	60.68	60.23	59.83
30.0	49.75	51.68	53.83	56.07	58.28	60.33	62.09	63.45	64.28	64.45	64.31
35.0	49.71	51.97	54.48	57.12	59.77	62.31	64.60	66.52	67.96	68.78	68.90
40.0		52.12	55.02	58.10	61.22	64.27	67.11	69.63	71.70	73.19	73.60
45.0		52.12	55.44	58.97	62.60	66.18	69.61	72.75	75.48	77.67	78.37
50.0		51.94	55.71	59.74	63.89	68.04	72.08	75.87	79.29	82.21	83.21
55.0			55.83	60.37	65.07	69.82	74.49	78.96	83.10	86.78	
60.0			55.77	60.85	66.14	71.51	76.85	82.02	86.90		
62.0			55.69	60.99	66.52	72.16	77.77	83.23			

Cond °C	Suction Mass Flow, g/s											
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	
10.0	188.00	246.00	317.00	403.00	504.00	624.00	765.00	929.00				
15.0	182.00	241.00	312.00	397.00	498.00	617.00	757.00	919.00	1109.00			
20.0	175.00	235.00	306.00	391.00	491.00	609.00	747.00	909.00	1097.00	1315.00	1413.00	
25.0	167.00	227.00	299.00	383.00	483.00	600.00	737.00	897.00	1084.00	1302.00	1399.00	
30.0	157.50	219.00	291.00	375.00	474.00	590.00	726.00	885.00	1070.00	1287.00	1384.00	
35.0	147.00	210.00	282.00	365.00	464.00	579.00	713.00	871.00	1055.00	1272.00	1368.00	
40.0		198.50	271.00	355.00	452.00	566.00	700.00	856.00	1040.00	1256.00	1352.00	
45.0		186.00	259.00	343.00	440.00	553.00	685.00	841.00	1024.00	1240.00	1337.00	
50.0		171.50	246.00	329.00	426.00	538.00	670.00	825.00	1007.00	1224.00	1322.00	
55.0			230.00	315.00	411.00	523.00	654.00	809.00	992.00	1211.00		
60.0			213.00	299.00	395.00	508.00	639.00	796.00	982.00			
62.0			206.00	292.00	389.00	502.00	635.00	792.00				

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	8
Displacement @ 50 Hz, m³/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, POE MOBIL EAL Arctic 22 CC
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	3922
Refrigerant's classification	A1

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

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