



Minimum Evaporating Temp. With:

■ 20 °C Suction Gas Return

■ Maximum Evaporating Temperature

Suction Superheat 11.1K

Liquid Subcooling 8.3K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW							
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	47.20	59.50	74.60					
15.0	44.40	56.40	71.10	88.60				
20.0	41.70	53.40	67.50	84.40	104.50			
25.0	38.90	50.30	63.90	80.20	99.40	122.00	131.50	
30.0	36.20	47.20	60.30	76.00	94.40	116.00	125.50	
35.0	33.50	44.10	56.70	71.70	89.40	110.00	119.00	
40.0	30.90	41.00	53.10	67.40	84.30	104.00	113.00	
45.0	28.30	38.00	49.50	63.10	79.20	98.00	106.50	
50.0	25.70	34.90	45.80	58.80	74.00	91.90	99.90	
55.0	23.20	31.90	42.20	54.40	68.80	85.80	93.40	
60.0		29.00	38.60	50.10	63.60	79.70	86.80	
65.0			35.10	45.70	58.40	73.50	80.30	
70.0			31.50	41.40	53.20	67.30	73.60	
75.0				37.10	48.00	61.10	67.00	
80.0				32.90	42.90	54.90	60.50	

Cond °C	Power, kW							
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	10.60	10.95	11.00					
15.0	11.45	12.10	12.45	12.50				
20.0	12.30	13.15	13.80	14.15	14.15			
25.0	13.05	14.15	15.05	15.70	16.05	16.00	15.85	
30.0	13.75	15.10	16.25	17.20	17.85	18.15	18.15	
35.0	14.45	15.95	17.35	18.60	19.55	20.20	20.30	
40.0	15.05	16.75	18.40	19.90	21.20	22.10	22.40	
45.0	15.65	17.55	19.40	21.10	22.70	24.00	24.40	
50.0	16.20	18.30	20.30	22.30	24.10	25.70	26.30	
55.0	16.75	18.95	21.20	23.40	25.50	27.40	28.10	
60.0		19.65	22.10	24.50	26.80	29.00	29.80	
65.0			22.90	25.50	28.00	30.50	31.40	
70.0			23.70	26.50	29.20	31.90	33.00	
75.0				27.40	30.40	33.30	34.50	
80.0				28.30	31.50	34.60	35.90	

50 Hz

8DL-370

R134a

Cond °C	Current at 400 V, A							
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	31.33	31.58	31.53					
15.0	32.04	32.57	32.86	32.79				
20.0	32.74	33.54	34.16	34.47	34.36			
25.0	33.42	34.50	35.44	36.13	36.44	36.27	36.03	
30.0	34.10	35.43	36.69	37.74	38.48	38.78	38.75	
35.0	34.76	36.35	37.91	39.32	40.47	41.24	41.41	
40.0	35.41	37.24	39.10	40.86	42.42	43.64	44.01	
45.0	36.04	38.11	40.26	42.37	44.32	46.00	46.56	
50.0	36.66	38.95	41.39	43.83	46.18	48.29	49.05	
55.0	37.26	39.78	42.48	45.26	47.98	50.54	51.49	
60.0		40.58	43.55	46.64	49.74	52.73	53.86	
65.0			44.58	47.99	51.45	54.86	56.17	
70.0			45.58	49.29	53.11	56.93	58.43	
75.0				50.55	54.72	58.94	60.62	
80.0				51.77	56.28	60.90	62.75	

Cond °C	Suction Mass Flow, g/s							
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	244.00	303.00	374.00					
15.0	238.00	298.00	368.00	452.00				
20.0	232.00	292.00	363.00	446.00	542.00			
25.0	226.00	286.00	357.00	440.00	536.00	646.00	693.00	
30.0	219.00	280.00	351.00	434.00	530.00	639.00	686.00	
35.0	212.00	273.00	344.00	427.00	522.00	631.00	679.00	
40.0	205.00	266.00	337.00	420.00	515.00	623.00	670.00	
45.0	197.50	259.00	330.00	412.00	506.00	614.00	661.00	
50.0	189.50	251.00	322.00	403.00	497.00	605.00	652.00	
55.0	181.00	243.00	313.00	394.00	487.00	594.00	641.00	
60.0		234.00	304.00	385.00	477.00	583.00	630.00	
65.0			295.00	374.00	465.00	571.00	617.00	
70.0			284.00	363.00	453.00	558.00	604.00	
75.0				351.00	440.00	544.00	591.00	
80.0				338.00	427.00	531.00	577.00	

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	8
Displacement @ 50 Hz, m ³ /h	151
Bore/Stroke, mm	68.3/59.2
Length/Width, mm	835/475
Height, mm	610
Net Weight, kg	323
Gross Weight, kg	344
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	75
Sound Power, dBA	86
High Side PS gauge, bar	32.5
Low Side PS gauge, bar	22.5
Refrigerant's GWP	1430
Refrigerant's classification	A1

COMPRESSOR ELECTRICAL DATA (380-420 V / 3~ / 50 Hz)

Maximum Operating Current, A	74.3
Locked Rotor Current, A	349
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%
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	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