



Minimum Evaporating Temp. With:

- 20 K Suction Superheat
- 20 °C Suction Gas Return
- 0 °C Suction Gas Return
- Maximum Evaporating Temperature

Suction Return Temperature 20.0°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
10.0	24.20	32.50	42.90	55.70	71.30	89.80	111.50		
15.0	22.70	30.70	40.70	53.00	67.90	85.70	106.50	131.00	
20.0	21.30	29.00	38.50	50.30	64.50	81.40	101.50	124.50	151.50
25.0		27.20	36.30	47.40	60.90	77.00	96.00	118.00	143.50
30.0		25.40	34.00	44.60	57.30	72.50	90.50	111.50	136.00
35.0			31.70	41.60	53.60	68.00	85.00	105.00	128.00
40.0				38.70	49.90	63.30	79.30	98.00	120.00
45.0				35.70	46.10	58.60	73.50	91.10	111.50
50.0					42.20	53.80	67.70	84.00	103.00
55.0					38.40	49.00	61.70	76.90	
60.0						44.10	55.70	69.60	
62.0						42.20	53.30		

50 Hz

D8DL-370X

R407A Dew Point

Cond °C	Power, kW								
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0
10.0	11.25	12.55	13.70	14.70	15.40	15.75	15.75		
15.0	11.70	13.25	14.70	16.00	17.05	17.85	18.30	18.30	
20.0	12.15	13.85	15.55	17.20	18.65	19.85	20.70	21.20	21.30
25.0		14.45	16.40	18.30	20.10	21.70	23.00	24.00	24.60
30.0		15.00	17.15	19.35	21.40	23.40	25.10	26.60	27.70
35.0			17.90	20.30	22.70	25.00	27.10	29.00	30.60
40.0				21.20	23.90	26.50	29.00	31.30	33.40
45.0				22.00	24.90	27.90	30.70	33.50	36.00
50.0					25.90	29.20	32.40	35.50	38.40
55.0					26.90	30.30	33.90	37.40	
60.0						31.40	35.30	39.10	
62.0						31.90	35.80		

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
10.0	31.87	33.01	34.14	35.12	35.83	36.16	35.99		
15.0	32.21	33.59	35.03	36.40	37.60	38.48	38.95	38.87	
20.0	32.57	34.17	35.91	37.67	39.33	40.76	41.85	42.48	42.52
25.0		34.76	36.79	38.91	41.02	42.98	44.68	46.00	46.81
30.0		35.34	37.64	40.11	42.65	45.13	47.43	49.42	50.99
35.0			38.46	41.27	44.23	47.21	50.09	52.75	55.06
40.0				42.38	45.74	49.21	52.65	55.96	59.00
45.0				43.42	47.18	51.11	55.11	59.05	62.81
50.0					48.53	52.92	57.46	62.02	66.48
55.0					49.78	54.62	59.68	64.85	
60.0						56.21	61.78	67.53	
62.0						56.81	62.58		

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
10.0	112.50	151.50	201.00	262.00	336.00	425.00	531.00		
15.0	109.50	148.50	197.50	258.00	331.00	420.00	525.00	649.00	
20.0	106.50	145.00	193.50	253.00	326.00	414.00	518.00	641.00	786.00
25.0		141.50	189.50	249.00	321.00	407.00	511.00	633.00	776.00
30.0		137.50	185.00	243.00	314.00	400.00	502.00	623.00	766.00
35.0			180.00	237.00	307.00	392.00	493.00	613.00	755.00
40.0				231.00	300.00	383.00	482.00	601.00	742.00
45.0				224.00	292.00	373.00	471.00	589.00	729.00
50.0					283.00	362.00	459.00	575.00	714.00
55.0					273.00	351.00	446.00	561.00	
60.0						339.00	432.00	545.00	
62.0						334.00	426.00		

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	8
Displacement @ 50 Hz, m³/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	78
Sound Power, dBA	89
High Side PS gauge, bar	32.5
Low Side PS gauge, bar	22.5
Refrigerant's GWP	2107
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

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

ACCESSORIES OPTIONAL

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

MOTOR OPTIONS

Motor Code	Power Supply	Nominal Voltage, V	Start Connection	DOL Connection	Amps Factor
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