



Minimum Evaporating Temp. With:

- 25 °C Suction Gas Return
- 20 K Suction Superheat
- Maximum Evaporating Temperature

Suction Superheat 11.1K

Liquid Subcooling 8.3K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW									
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
30.0	46.50	61.10	79.90	103.00	130.50	162.00	198.50	214.00	239.00	261.00
35.0	43.10	56.60	74.10	95.70	121.50	151.50	186.00	201.00	225.00	246.00
40.0	39.70	52.10	68.40	88.60	113.00	141.00	173.50	188.00	211.00	231.00
45.0	36.40	47.80	62.80	81.60	104.50	131.00	161.50	175.00	196.50	216.00
50.0		43.80	57.60	75.00	96.10	121.00	150.00	162.50	183.00	201.00
55.0			52.90	68.90	88.50	112.00	139.00	151.00	170.00	187.00
60.0			48.70	63.40	81.50	103.00	128.50	139.50	157.50	174.00

50 Hz

8DJ-600

R407C Dew Point

Cond °C	Power, kW									
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
30.0	20.80	23.20	25.60	27.90	29.90	31.50	32.30	32.50	32.40	32.10
35.0	21.90	24.50	27.20	29.90	32.30	34.40	35.90	36.30	36.60	36.60
40.0	23.20	25.90	28.80	31.80	34.60	37.20	39.20	39.90	40.60	41.00
45.0	24.50	27.30	30.40	33.70	36.90	39.90	42.40	43.30	44.40	45.10
50.0		28.70	32.00	35.50	39.00	42.30	45.40	46.50	47.90	49.00
55.0			33.40	37.10	40.80	44.60	48.00	49.30	51.10	52.40
60.0			34.70	38.50	42.50	46.50	50.30	51.80	53.90	55.50

Cond °C	Current at 400 V, A									
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
30.0	55.08	57.79	60.70	63.55	66.08	68.03	69.14	69.29	69.15	68.67
35.0	56.33	59.28	62.56	65.89	69.03	71.71	73.67	74.20	74.66	74.71
40.0	57.82	60.97	64.57	68.35	72.05	75.42	78.19	79.08	80.11	80.67
45.0	59.46	62.76	66.64	70.81	75.04	79.05	82.59	83.81	85.39	86.44
50.0		64.54	68.65	73.18	77.88	82.49	86.75	88.30	90.40	91.92
55.0			70.51	75.35	80.48	85.65	90.59	92.44	95.04	97.00
60.0			72.10	77.21	82.73	88.41	93.98	96.12	99.18	101.57

Cond °C	Suction Mass Flow, g/s									
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
30.0	256.00	331.00	427.00	542.00	676.00	829.00	1000.00	1074.00	1191.00	1293.00
35.0	248.00	320.00	413.00	525.00	656.00	806.00	976.00	1049.00	1164.00	1265.00
40.0	239.00	309.00	398.00	507.00	636.00	784.00	950.00	1022.00	1136.00	1236.00
45.0	231.00	297.00	384.00	490.00	616.00	761.00	925.00	997.00	1109.00	1208.00
50.0		287.00	371.00	474.00	597.00	740.00	901.00	972.00	1083.00	1181.00
55.0			360.00	460.00	580.00	720.00	880.00	949.00	1060.00	1157.00
60.0			353.00	450.00	567.00	705.00	862.00	931.00	1040.00	1137.00

**COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Number of cylinders	8
Displacement @ 50 Hz, m <sup>3</sup> /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, 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	1774
Refrigerant's classification	A1

**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

### 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	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