



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	38.90	51.10	66.60	85.60	108.00	134.50	164.50	177.50	198.50	217.00
35.0	35.90	47.30	61.90	79.80	101.00	126.00	154.50	167.00	187.00	205.00
40.0	32.80	43.40	57.10	73.90	94.10	117.50	145.00	157.00	175.50	192.50
45.0	29.70	39.50	52.30	68.10	87.00	109.50	135.00	146.50	164.50	180.50
50.0		35.70	47.60	62.30	80.10	101.00	125.50	136.50	153.50	169.00
55.0			43.10	56.80	73.40	93.20	116.00	126.50	142.50	157.50
60.0			39.00	51.60	67.10	85.60	107.00	117.00	132.50	146.00

50 Hz

8DH-500

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	17.55	19.40	21.30	23.00	24.40	25.30	25.60	25.60	25.20	24.70
35.0	18.65	20.70	22.80	24.80	26.60	27.90	28.80	28.90	28.90	28.70
40.0	19.80	22.00	24.30	26.60	28.70	30.50	31.80	32.20	32.50	32.60
45.0	20.90	23.20	25.70	28.30	30.70	32.90	34.60	35.20	35.90	36.20
50.0		24.40	27.00	29.80	32.50	35.10	37.30	38.00	39.00	39.60
55.0			28.20	31.10	34.10	37.00	39.60	40.50	41.80	42.70
60.0			29.10	32.20	35.50	38.60	41.60	42.70	44.20	45.40

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	46.21	48.34	50.55	52.62	54.35	55.53	55.93	55.82	55.34	54.61
35.0	47.59	49.94	52.47	54.97	57.21	58.99	60.08	60.29	60.29	59.99
40.0	48.94	51.50	54.33	57.22	59.95	62.31	64.08	64.58	65.06	65.18
45.0	50.25	52.99	56.09	59.35	62.54	65.46	67.88	68.67	69.60	70.13
50.0		54.36	57.72	61.32	64.95	68.39	71.45	72.51	73.89	74.82
55.0			59.17	63.09	67.13	71.09	74.74	76.07	77.88	79.19
60.0			60.41	64.62	69.06	73.50	77.73	79.32	81.55	83.23

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	214.00	277.00	356.00	450.00	561.00	687.00	829.00	891.00	987.00	1072.00
35.0	207.00	268.00	345.00	437.00	546.00	671.00	811.00	872.00	968.00	1053.00
40.0	198.00	257.00	332.00	423.00	531.00	654.00	793.00	853.00	949.00	1033.00
45.0	188.50	246.00	319.00	409.00	514.00	636.00	774.00	834.00	928.00	1012.00
50.0		234.00	306.00	394.00	498.00	618.00	755.00	814.00	908.00	992.00
55.0			293.00	379.00	482.00	600.00	736.00	795.00	889.00	973.00
60.0			282.00	366.00	467.00	585.00	720.00	779.00	873.00	956.00

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, 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	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