



Minimum Evaporating Temp. With:	
— 20 °C Suction Gas Return ASERCOM certified	— 20 °C Suction Gas Return
— 0 °C Suction Gas Return	— 0 °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									
	-50.0	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
5.0			43.50	56.00	71.00	88.80	109.50			
10.0			41.30	53.30	67.70	84.70	104.50	127.50	153.50	183.00
15.0			39.00	50.50	64.20	80.40	99.20	121.00	145.50	174.00
20.0			36.60	47.60	60.60	75.90	93.70	114.50	138.00	164.50
25.0			34.00	44.50	56.80	71.30	88.10	107.50	130.00	155.00
30.0			31.40	41.30	52.90	66.50	82.30	100.50	121.50	145.50
35.0			28.60	38.00	48.90	61.60	76.40	93.40	113.00	135.50
40.0				34.50	44.70	56.50	70.20	86.10	104.50	125.00
45.0					40.40	51.30	64.00	78.60	95.50	114.50
50.0					36.00	46.00	57.60	71.00	86.40	104.00
55.0						40.50	51.00	63.20	77.20	93.40
60.0						35.00	44.40	55.30	67.90	
62.0							41.70	52.00	64.10	

50 Hz

8DT-450

R404A Dew Point

Cond °C	Power, kW									
	-50.0	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
5.0			15.95	17.50	18.95	20.20	21.20			
10.0			16.80	18.60	20.30	21.80	23.10	24.10	24.80	25.00
15.0			17.65	19.70	21.60	23.50	25.10	26.40	27.40	27.90
20.0			18.40	20.70	22.90	25.00	27.00	28.60	30.00	30.90
25.0			19.05	21.60	24.10	26.60	28.80	30.90	32.60	33.90
30.0			19.55	22.40	25.30	28.00	30.60	33.00	35.20	36.90
35.0			19.95	23.10	26.30	29.40	32.40	35.20	37.70	39.90
40.0				23.70	27.20	30.70	34.00	37.20	40.20	42.80
45.0					28.00	31.90	35.60	39.20	42.60	45.60
50.0					28.70	32.90	37.00	41.10	44.90	48.40
55.0						33.80	38.40	42.80	47.10	51.10
60.0						34.50	39.50	44.40	49.20	
62.0							40.00	45.00	50.00	

Cond °C	Current at 400 V, A									
	-50.0	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
5.0			42.17	43.73	45.24	46.57	47.62			
10.0			42.98	44.81	46.63	48.33	49.79	50.89	51.52	51.56
15.0			43.77	45.89	48.06	50.15	52.05	53.64	54.81	55.45
20.0			44.53	46.96	49.49	52.00	54.36	56.48	58.21	59.47
25.0			45.21	47.98	50.90	53.85	56.71	59.36	61.69	63.59
30.0			45.79	48.93	52.26	55.68	59.05	62.27	65.22	67.78
35.0			46.24	49.77	53.55	57.45	61.36	65.17	68.76	72.02
40.0				50.48	54.72	59.14	63.62	68.04	72.30	76.27
45.0					55.76	60.71	65.78	70.85	75.80	80.51
50.0					56.63	62.15	67.83	73.56	79.23	84.71
55.0						63.41	69.74	76.16	82.57	88.84
60.0						64.48	71.47	78.61	85.78	
62.0							72.10	79.54	87.02	

50 Hz

8DT-450

R404A Dew Point

Cond °C	Suction Mass Flow, g/s									
	-50.0	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
5.0			235.00	303.00	386.00	484.00	600.00			
10.0			232.00	300.00	383.00	480.00	596.00	730.00	886.00	1067.00
15.0			228.00	297.00	378.00	476.00	590.00	724.00	879.00	1058.00
20.0			224.00	292.00	373.00	470.00	583.00	716.00	870.00	1049.00
25.0			218.00	286.00	367.00	463.00	575.00	707.00	860.00	1038.00
30.0			212.00	279.00	360.00	454.00	566.00	696.00	848.00	1025.00
35.0			204.00	272.00	351.00	445.00	555.00	684.00	835.00	1011.00
40.0				262.00	341.00	434.00	543.00	671.00	821.00	996.00
45.0					330.00	422.00	529.00	656.00	805.00	980.00
50.0					317.00	408.00	514.00	640.00	788.00	963.00
55.0						392.00	498.00	623.00	771.00	946.00
60.0						376.00	481.00	606.00	755.00	
62.0							474.00	600.00	749.00	

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	8
Displacement @ 50 Hz, m ³ /h	181
Bore/Stroke, mm	74.7/59.2
Length/Width, mm	835/475
Height, mm	610
Net Weight, kg	335
Gross Weight, kg	356
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	78.2
Sound Power, dBA	89.2
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	90.7
Locked Rotor Current, A	441
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

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