



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 + fan
- Maximum Evaporating Temperature

Suction Return Temperature 20.0°C

Evaporating Temperature, °C

Liquid Subcooling 0.0K

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			43.60	56.10	71.20	89.00	110.00			
10.0			41.40	53.50	67.90	84.90	104.50	127.50	153.50	183.50
15.0			39.10	50.70	64.40	80.60	99.40	121.00	146.00	174.50
20.0			36.70	47.70	60.80	76.10	94.00	114.50	138.00	165.00
25.0			34.20	44.60	57.00	71.50	88.40	108.00	130.00	155.50
30.0			31.50	41.40	53.10	66.80	82.60	101.00	122.00	146.00
35.0			28.80	38.10	49.10	61.90	76.70	93.80	113.50	136.00
40.0				34.70	44.90	56.80	70.60	86.50	105.00	125.50
45.0					40.60	51.60	64.40	79.10	96.00	115.50
50.0					36.20	46.30	58.00	71.50	87.00	105.00
55.0						40.90	51.50	63.70	77.90	94.20
60.0						35.30	44.80	55.80	68.60	
62.0							42.10	52.60	64.80	

50Hz

8DT-450X

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	

50Hz

8DT-450X

R404A Dew Point

Cond °C	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			233.00	301.00	383.00	481.00	596.00			
10.0			231.00	299.00	380.00	477.00	592.00	725.00	880.00	1059.00
15.0			227.00	295.00	376.00	473.00	586.00	719.00	873.00	1051.00
20.0			222.00	290.00	371.00	467.00	579.00	711.00	864.00	1041.00
25.0			217.00	284.00	365.00	460.00	571.00	702.00	854.00	1030.00
30.0			211.00	278.00	357.00	452.00	562.00	692.00	842.00	1018.00
35.0			203.00	270.00	349.00	442.00	552.00	680.00	829.00	1004.00
40.0				261.00	339.00	431.00	540.00	667.00	815.00	989.00
45.0					328.00	419.00	526.00	652.00	799.00	972.00
50.0					315.00	405.00	511.00	636.00	783.00	955.00
55.0						390.00	495.00	619.00	765.00	939.00
60.0						373.00	478.00	602.00	749.00	
62.0							471.00	596.00	744.00	

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
Oil Quantity, l	7.6
Frequency Range, Hz	25 - 60
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 (18.0)
Sound Pressure @ 1m, dBA	78.2
Sound Power, dBA	89.2
High Side PS, bar(g)	32.5
Low Side PS, bar(g)	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
Inverter	Emerson Industrial Automation, Unidrive M400 08 401 340

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