



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	29.00	38.30	50.00	64.70	82.50	104.00	129.00		
15.0	27.70	36.60	47.90	61.90	79.00	99.40	123.50	151.50	
20.0	26.30	34.90	45.70	59.10	75.30	94.70	117.50	144.50	175.50
25.0		33.10	43.40	56.10	71.50	90.00	112.00	137.00	166.50
30.0		31.30	41.10	53.10	67.70	85.10	105.50	130.00	158.00
35.0			38.70	50.00	63.70	80.10	99.50	122.50	149.00
40.0				46.80	59.60	75.00	93.30	114.50	139.50
45.0				43.60	55.50	69.80	86.80	107.00	130.50
50.0					51.30	64.50	80.30	99.00	121.00
55.0					47.00	59.20	73.70	90.90	
60.0						53.70	67.00	82.80	
62.0						51.50	64.20		

50 Hz

D8DT-450X

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	13.75	15.30	16.75	18.05	19.10	19.85	20.20		
15.0	14.35	16.20	18.00	19.60	21.10	22.30	23.10	23.60	
20.0	15.00	17.10	19.15	21.10	23.00	24.60	26.00	27.00	27.60
25.0		17.90	20.30	22.60	24.80	26.80	28.60	30.10	31.30
30.0		18.70	21.30	23.90	26.50	28.90	31.20	33.20	34.80
35.0			22.30	25.20	28.10	30.90	33.50	36.00	38.20
40.0				26.30	29.50	32.70	35.80	38.60	41.30
45.0				27.40	30.90	34.30	37.80	41.10	44.20
50.0					32.00	35.80	39.60	43.30	46.90
55.0					33.00	37.10	41.20	45.30	
60.0						38.20	42.70	47.10	
62.0						38.60	43.20		

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	40.45	41.92	43.44	44.83	45.93	46.56	46.56		
15.0	41.02	42.71	44.56	46.39	48.03	49.31	50.07	50.13	
20.0	41.56	43.45	45.61	47.85	50.03	51.95	53.46	54.38	54.54
25.0		44.15	46.60	49.25	51.93	54.48	56.72	58.48	59.59
30.0		44.82	47.55	50.58	53.77	56.92	59.88	62.46	64.51
35.0			48.46	51.87	55.53	59.28	62.93	66.33	69.30
40.0				53.12	57.25	61.57	65.91	70.10	73.97
45.0				54.35	58.93	63.81	68.81	73.78	78.54
50.0					60.58	66.00	71.66	77.39	83.02
55.0					62.21	68.16	74.46	80.93	
60.0						70.30	77.22	84.42	
62.0						71.16	78.32		

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	135.00	178.50	234.00	303.00	389.00	491.00	614.00		
15.0	133.50	177.00	232.00	301.00	385.00	487.00	608.00	751.00	
20.0	131.50	174.50	230.00	298.00	381.00	482.00	602.00	744.00	910.00
25.0		172.50	227.00	294.00	376.00	476.00	594.00	735.00	901.00
30.0		169.50	223.00	290.00	371.00	469.00	586.00	726.00	890.00
35.0			220.00	285.00	365.00	462.00	577.00	715.00	878.00
40.0				280.00	358.00	453.00	567.00	704.00	865.00
45.0				274.00	351.00	444.00	557.00	691.00	851.00
50.0					343.00	434.00	545.00	677.00	836.00
55.0					335.00	424.00	532.00	663.00	
60.0						412.00	519.00	648.00	
62.0						408.00	513.00		

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	8
Displacement @ 50 Hz, m³/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 (MT), dBA	77
Sound Power (MT), dBA	88
Sound Conditions (MT, Temperatures: Evap./Cond./Suction at freq./speed)	-10 / 45 / 20 °C at 50 Hz
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	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

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

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