



Minimum Evaporating Temp. With:

- 20 °C Suction Gas Return ASERCOM certified
- 0 °C Suction Gas Return
- 0 °C Suction Gas Return with add cooling
- ▨ Limited superheat 20 K
- Maximum Evaporating Temperature
- 25 °C Suction Gas Return
- Voltage limit ± 5% above -20°C

Suction Return Temperature 20.0°C

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW								
	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
10.0	24.50	32.60	42.60	54.40	68.40				
15.0	22.60	30.50	40.10	51.50	64.90	80.50			
20.0	20.70	28.30	37.50	48.40	61.10	75.90	93.00		
25.0		26.10	34.80	45.10	57.20	71.20	87.30	106.00	
30.0		23.80	32.10	41.80	53.20	66.30	81.50	98.80	118.50
35.0			29.30	38.40	49.00	61.30	75.50	91.70	110.00
40.0			26.60	35.00	44.80	56.20	69.30	84.40	101.50
45.0				31.60	40.60	51.00	63.00	76.90	92.70
50.0				28.20	36.30	45.80	56.70	69.30	83.80
55.0					32.10	40.50	50.30	61.60	74.70

50 Hz

D6SU-400X

R404A Dew Point

Cond °C	Power, kW								
	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
10.0	12.00	14.10	16.10	17.90	19.45				
15.0	12.20	14.50	16.70	18.80	20.70	22.30			
20.0	12.35	14.85	17.25	19.60	21.80	23.90	25.70		
25.0		15.10	17.75	20.40	22.90	25.30	27.50	29.50	
30.0		15.30	18.15	21.00	23.80	26.60	29.20	31.60	33.80
35.0			18.45	21.60	24.70	27.80	30.80	33.60	36.30
40.0			18.70	22.00	25.40	28.80	32.20	35.50	38.60
45.0				22.40	26.00	29.80	33.50	37.20	40.80
50.0				22.60	26.50	30.60	34.70	38.80	42.80
55.0					26.90	31.30	35.70	40.20	44.70

Cond °C	Current at 400 V, A								
	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
10.0	30.98	32.48	34.10	35.85	37.73				
15.0	31.10	33.01	35.05	37.22	39.51	41.94			
20.0	31.07	33.39	35.84	38.42	41.13	43.97	46.93		
25.0		33.62	36.48	39.47	42.60	45.85	49.22	52.73	
30.0		33.73	36.99	40.39	43.92	47.58	51.37	55.29	59.33
35.0			37.39	41.20	45.13	49.20	53.40	57.72	62.17
40.0			37.70	41.90	46.24	50.71	55.31	60.04	64.90
45.0				42.52	47.26	52.13	57.13	62.27	67.53
50.0				43.08	48.21	53.48	58.88	64.42	70.08
55.0					49.12	54.78	60.57	66.50	72.57

Cond °C	Suction Mass Flow, g/s								
	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
10.0	136.00	181.50	238.00	305.00	385.00				
15.0	131.00	177.00	233.00	301.00	380.00	474.00			
20.0	125.00	171.50	228.00	295.00	375.00	468.00	577.00		
25.0		165.50	222.00	289.00	368.00	460.00	568.00	694.00	
30.0		159.00	215.00	281.00	360.00	451.00	558.00	683.00	827.00
35.0			208.00	273.00	350.00	441.00	547.00	670.00	814.00
40.0			200.00	264.00	340.00	429.00	534.00	656.00	798.00
45.0				255.00	329.00	417.00	520.00	640.00	781.00
50.0				245.00	318.00	403.00	504.00	623.00	763.00
55.0					306.00	389.00	488.00	605.00	744.00

**COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Number of cylinders	6
Displacement @ 50 Hz, m <sup>3</sup> /h	152
Bore/Stroke, mm	80.6/57.0
Length/Width, mm	740/540
Height, mm	545
Net Weight, kg	265
Gross Weight, kg	281
Suction, inch	2 5/8
Discharge, inch	1 5/8
Drive Frequency Range, Hz	25 - 60
Oil Quantity, l	6.8
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	381 x 305 (18)
Sound Pressure @ 1m (LT), dBA	78
Sound Power (LT), dBA	89
Sound Conditions (LT, Temperatures: Evap./Cond./Suction at freq./speed)	-35 / 40 / 20 °C at 50 Hz
Sound Pressure @ 1m (MT), dBA	74
Sound Power (MT), dBA	85
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	3922
Refrigerant's classification	A1

**COMPRESSOR ELECTRICAL DATA (380-420 V / 3~ / 50 Hz)**

Maximum Operating Current, A	73.7
Locked Rotor Current, A	306
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 66/33%
Enclosure Class	IP 56
Adapter Kit	For Parallel Operation
Crankcase Heater	200 W Internal
Check Valve	For unloaded start operation
Additional Cooling	70 W Vertical Air Flow Fan
Discharge Temperature Protection	Head PTC sensor
Unloaded start	Available
Oil Pressure Switch	OPS2 Electronic Switch
Oil Control System	ALCO Trax-Oil OM3

**MOTOR OPTIONS**

<b>Motor Code</b>	<b>Power Supply</b>	<b>Nominal Voltage, V</b>	<b>Start Connection</b>	<b>DOL Connection</b>	<b>Amps Factor</b>
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
AWR	220-240 V / 3~ / 50 Hz	230	YYY	Y	1.73
EWK	220-240 V / 3~ / 60 Hz	230	Y/DELTA	DELTA	2.10
EWK	380-420 V / 3~ / 60 Hz	380		Y	1.20
AWX	380 V / 3~ / 60 Hz	380	YYY	Y	1.20
AWD	440-480 V / 3~ / 60 Hz	460	YYY	Y	1.00