



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	19.65	26.80	35.60	46.10	58.30				
15.0	17.90	24.80	33.10	43.10	54.80	68.20			
20.0	16.25	22.80	30.70	40.10	51.20	64.00	78.60		
25.0		20.80	28.30	37.20	47.70	59.80	73.60	89.30	
30.0		18.95	25.90	34.30	44.10	55.50	68.50	83.40	100.00
35.0			23.60	31.40	40.50	51.20	63.40	77.30	93.00
40.0			21.30	28.50	37.00	46.80	58.20	71.20	85.90
45.0				25.50	33.30	42.40	53.00	65.00	78.70
50.0				22.60	29.60	37.90	47.60	58.70	71.30
55.0					25.90	33.30	42.10	52.20	63.80

50 Hz

D6ST-320X

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	9.94	11.65	13.25	14.80	16.15				
15.0	10.10	11.95	13.80	15.50	17.10	18.60			
20.0	10.20	12.25	14.25	16.20	18.05	19.80	21.30		
25.0		12.50	14.70	16.85	18.95	20.90	22.80	24.50	
30.0		12.65	15.05	17.40	19.75	22.00	24.20	26.20	28.00
35.0			15.30	17.90	20.50	23.00	25.50	27.80	30.00
40.0			15.45	18.30	21.10	23.90	26.60	29.30	31.80
45.0				18.55	21.60	24.70	27.70	30.70	33.50
50.0				18.65	22.00	25.30	28.60	31.90	35.10
55.0					22.10	25.70	29.40	33.00	36.50

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	25.03	26.83	28.62	30.33	31.89				
15.0	25.18	27.15	29.16	31.16	33.07	34.83			
20.0	25.31	27.44	29.69	31.97	34.23	36.40	38.41		
25.0		27.70	30.16	32.74	35.34	37.91	40.39	42.70	
30.0		27.87	30.57	33.43	36.38	39.36	42.30	45.14	47.81
35.0			30.88	34.02	37.32	40.70	44.11	47.47	50.73
40.0			31.06	34.49	38.13	41.92	45.79	49.68	53.52
45.0				34.80	38.79	42.99	47.32	51.74	56.16
50.0				34.94	39.27	43.87	48.67	53.61	58.62
55.0					39.55	44.56	49.82	55.28	60.87

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	109.00	149.50	199.00	258.00	328.00				
15.0	103.50	143.50	192.50	252.00	321.00	402.00			
20.0	98.30	138.00	186.50	245.00	314.00	394.00	488.00		
25.0		132.00	180.00	238.00	306.00	386.00	479.00	586.00	
30.0		126.50	174.00	231.00	298.00	378.00	470.00	576.00	698.00
35.0			167.00	223.00	290.00	368.00	460.00	565.00	687.00
40.0			160.00	215.00	281.00	358.00	449.00	554.00	676.00
45.0				206.00	270.00	347.00	437.00	541.00	663.00
50.0				196.00	259.00	334.00	423.00	528.00	650.00
55.0					247.00	321.00	409.00	513.00	636.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	6
Displacement @ 50 Hz, m ³ /h	127
Bore/Stroke, mm	74.7/55.6
Length/Width, mm	740/540
Height, mm	545
Net Weight, kg	252
Gross Weight, kg	268
Rotalock Discharge, inch	1 3/8
Suction, inch	2 1/8
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	76
Sound Power (LT), dBA	87
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	62.9
Locked Rotor Current, A	255
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
Oil Pressure Switch	OPS2 Electronic Switch
Oil Control System	ALCO Trax-Oil OM3
Additional Cooling	70 W Vertical Air Flow Fan
Discharge Temperature Protection	Head PTC sensor
Unloaded start	Available

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