



Minimum Evaporating Temp. With:	
<span style="color: magenta;">—</span> 20 °C Suction Gas Return ASERCOM certified	<span style="color: orange;">—</span> 25 °C Suction Gas Return
<span style="color: brown;">—</span> 0 °C Suction Gas Return	<span style="color: red;">—</span> 0 °C Suction Gas Return with add cooling
<span style="color: blue;">▨</span> Limited superheat 20 K	
<span style="color: blue;">—</span> Maximum Evaporating Temperature	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
20.0	19.90	27.20	36.10	46.60	59.00	73.40	89.90		
25.0		24.80	33.20	43.30	55.00	68.60	84.20	102.00	
30.0		22.40	30.40	39.90	51.00	63.80	78.50	95.20	114.00
35.0			27.50	36.40	46.80	58.80	72.60	88.30	106.00
40.0			24.60	32.90	42.60	53.80	66.60	81.20	97.60
45.0				29.40	38.30	48.60	60.50	74.00	89.20
50.0				25.80	34.00	43.40	54.20	66.60	80.60
55.0					29.60	38.10	47.90	59.10	71.80

50 Hz

D8SH-370X

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
20.0	12.20	14.50	16.85	19.15	21.40	23.40	25.10		
25.0		14.60	17.20	19.75	22.30	24.60	26.70	28.50	
30.0		14.60	17.40	20.30	23.00	25.70	28.20	30.40	32.20
35.0			17.55	20.70	23.70	26.70	29.50	32.10	34.30
40.0			17.55	20.90	24.30	27.60	30.70	33.70	36.30
45.0				21.10	24.70	28.40	31.80	35.20	38.20
50.0				21.10	25.10	29.00	32.80	36.50	40.00
55.0					25.30	29.50	33.70	37.80	41.60

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
20.0	32.35	34.48	36.92	39.51	42.12	44.58	46.76		
25.0		34.59	37.28	40.20	43.19	46.11	48.82	51.15	
30.0		34.60	37.54	40.78	44.15	47.52	50.74	53.66	56.13
35.0			37.69	41.24	44.99	48.80	52.53	56.02	59.13
40.0			37.73	41.58	45.70	49.95	54.17	58.23	61.98
45.0				41.79	46.27	50.95	55.67	60.29	64.66
50.0				41.87	46.71	51.81	57.02	62.19	67.18
55.0					47.00	52.51	58.20	63.92	69.53

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
20.0	120.50	165.00	219.00	285.00	362.00	452.00	557.00		
25.0		157.50	212.00	277.00	354.00	444.00	548.00	669.00	
30.0		149.50	204.00	268.00	345.00	434.00	538.00	658.00	796.00
35.0			194.50	259.00	335.00	423.00	526.00	645.00	782.00
40.0			185.00	249.00	323.00	411.00	513.00	631.00	768.00
45.0				237.00	311.00	398.00	499.00	616.00	752.00
50.0				224.00	297.00	383.00	482.00	599.00	734.00
55.0					282.00	366.00	465.00	581.00	716.00

**COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Number of cylinders	8
Displacement @ 50 Hz, m <sup>3</sup> /h	151
Bore/Stroke, mm	68.3/59.2
Length/Width, mm	835/467
Height, mm	610
Net Weight, kg	314
Gross Weight, kg	335
Suction, inch	2 5/8
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)
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	70.9
Locked Rotor Current, A	349
Default Enclosure Class	IP 54 (IEC 34)

**ACCESSORIES INCLUDED**

Mounting Springs	4
Deep Oil Sump	Mounted
Oil Pressure Switch	OPS2 Sensor

**ACCESSORIES OPTIONAL**

Unloaded start	Available
Crankcase Heater	200 W Internal
Enclosure Class	IP 56
Check Valve	For unloaded start operation
Adapter Kit	For Parallel Operation
Oil Control System	ALCO Trax-Oil OM3
Additional Cooling	70 W Vertical Air Flow Fan
Capacity Control	Capacity Steps 75/50%
Discharge Temperature Protection	Head PTC sensor
Oil Pressure Switch	OPS2 Electronic Switch

**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	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