

Model
SC15CLX.2

Sales code:
104L2893

Compressor Data

Refrigerant(s)	R404A / R507
Refr. charge - tech. limit	1300g / 45.86oz
Weight	13.80 kg / 30.42lbs
Displacement	15.28 cm3 / 0.93cu.in
Compressors on pallet	80



General – Configurations With SC15CLX.2

-	Conf. 1
Motor configuration	CSIR
Power supply (nominal)	220-240 V/50 Hz
Number of phases	1
Voltage range	198-254 V
Approvals	VDE, EAC
Starting torque	HST
Refrigerant	R404A
Application	LBP
Hot gas defrost	OK
Long interval pull down	OK

Application Notes

- Provision for PE Grounding is located at the PE Stamp on the compressor

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Compressor Design

Oil type	POE	Winding resistance main	3.700 Ohm
Oil viscosity	32cSt	Winding resistance aux	14.10 Ohm
Oil quantity	555 / 18.77fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	1,510 cm ³ / 51.06fl.oz	Max. discharge temp.	130°C / 266°F
Motor protection	internal		

Compressor Dimensions

Housing

A Height	219mm / 8.62in
B Height	213mm / 8.39in
C Length shell	239mm / 9.41in
D Length w. cover	255mm / 10.04in
E Width	151mm / 5.94in

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Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 9.54–9.72 / 0.38–0.38in	øi 6.41–6.59 / 0.25–0.26in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	143°
Vertical angle ±2°	30°	0°	150°
Position l/h/w [mm]	107/193/55 / 4.21/7.60/2.17in	115/110/63 / 4.53/4.33/2.48in	-107/193/55 / -4.21/7.60/2.17in
Straight tube l. [mm]	12 / 0.47in	12 / 0.47in	12 / 0.47in

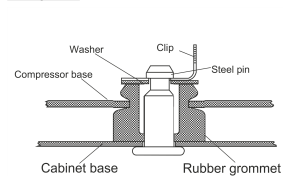
Mounting Accessories



Bolt joint



Snap-on



Dimensions in mm [in]

	one comp.	multi pack
Bolt joint M6 ø16mm	118-1917	118-1918
Bolt joint ø1/4" ø16mm	118-1946	-
Bolt joint ø1/4" ø19mm	118-1949	-
Snap-on ø7,3 ø16mm	118-1947	118-1919

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Power supply (nominal)	220-240 V/50 Hz 1~
Refrigerant	R404A
Application	LBP
Voltage range	198-254 V
Starting torque	HST
Approvals	VDE, EAC
Starting device type	relay
Run capacitor	-/-
Start capacitor	80 µF
LRA (locked rotor amps / 4s/ U(N))	20.43 A
RLA (rated load amps / 1s/ U(N))	3.9 A
Cut in current (U(N))	20.43 A

Ambient/ machine room temperatures minimum /maximum

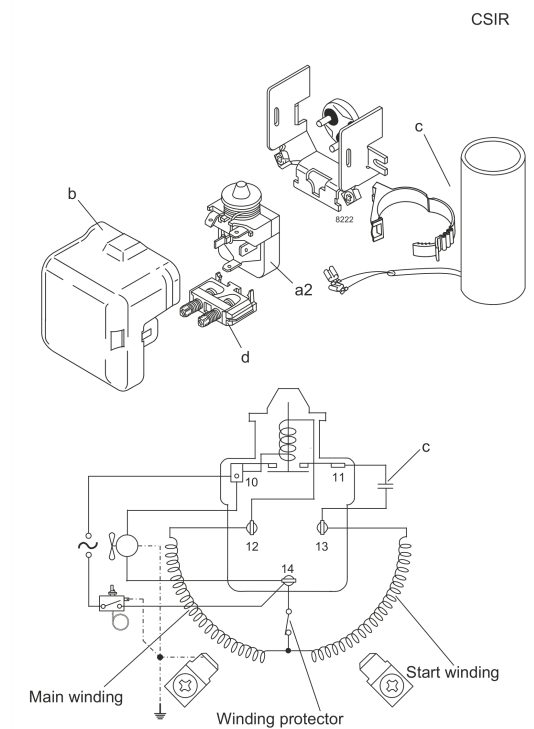
Ambient temperature range: 10 - 38°C / 50 - 100°F

Machine room temp. compressor: 10 - 43°C / 50 - 109°F

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



[View full size](#)

Components

a2 relay 117U6019

c start capacitor (80µF) 117U5017

d cord relief 103N1004

b plastic cover 103N2009

Alternative components

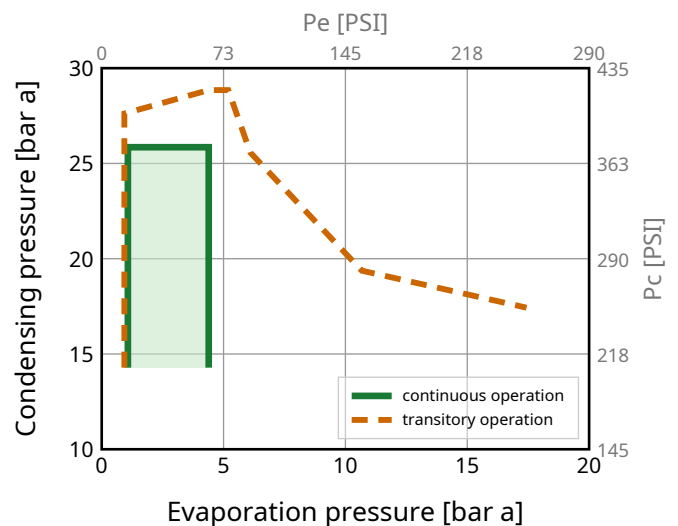
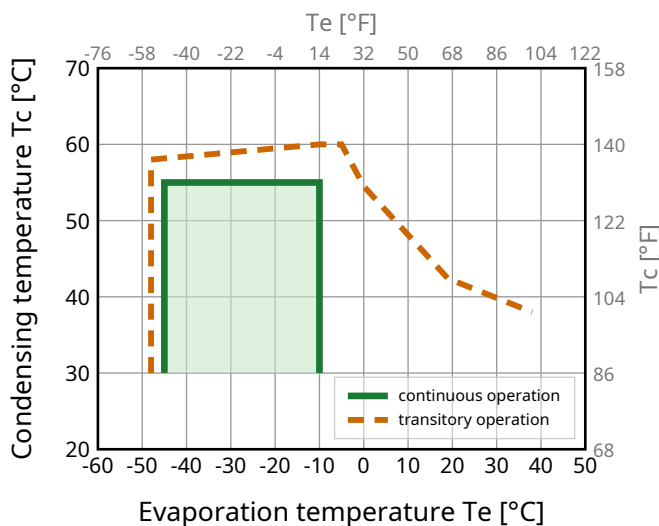
a2 relay 117U6019

c start capacitor i-pack 40# (80µF) 117U5067

d cord relief 103N1004

b plastic cover 103N2008

Operation Pressure Range



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Standard Conditions

R404A, 220 V/50 Hz, CSIR, fan 3m/s

pe	pc	RGT	Tliq	Cooling capacity			COP	EER	P	I	m	
[°C] [°F]	[°C] [°F]	[°C] [°F]	[°C] [°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]	
-23.3 -10	54.4 129.9	32.2 90	32.2 90	724	2470	622	1.18	4.03	613	3.85	16.83	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	486	1659	418	0.83	2.82	588	3.77	15.16	CECOMAF LBP
-35 -31	40 104	20 68	40 104	392	1339	337	0.91	3.11	431	3.31	10.63	EN12900 LBP
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	548	1870	471	0.92	3.13	598	3.83	19.34	ARI540 LBP
-23.3 -10	40.6 105.1	32.2 90	32.2 90	836	2853	719	1.45	4.94	577	3.77	19.44	AHAM LBP
-25 -13	45 113	32 89.6	45 113	637	2173	548	1.13	3.85	565	3.73	17.14	opt LBP

Performance Tables

R404A, 220 V/50 Hz, CSIR, fan 3m/s

pc= 45/113 | RGT= 32/89.6 | Tliq= 45/113 | °C/°F

pe		Cooling capacity			COP	EER	P	I	m
[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]
-45	-49	159	542	137	0.53	1.80	301	2.91	4.21
-40	-40	250	853	215	0.68	2.32	368	3.10	6.64
-35	-31	358	1223	308	0.83	2.82	433	3.31	9.55
-30	-22	486	1660	418	0.98	3.33	498	3.51	13.03
-25	-13	637	2173	548	1.13	3.85	565	3.73	17.14
-20	-4	813	2774	699	1.28	4.38	634	3.95	22.01
-15	5	1017	3469	874	1.44	4.91	706	4.18	27.72
-10	14	1251	4270	1076	1.60	5.45	783	4.42	34.41

pc= 55/131 | RGT= 32/89.6 | Tliq= 55/131 | °C/°F

-45	-49	76	260	65	0.28	0.95	274	2.83	2.33
-40	-40	156	532	134	0.44	1.50	355	3.05	4.79
-35	-31	249	849	214	0.57	1.96	433	3.28	7.68
-30	-22	358	1222	308	0.70	2.39	511	3.52	11.10
-25	-13	486	1659	418	0.83	2.82	588	3.77	15.16
-20	-4	636	2169	547	0.95	3.26	666	4.03	19.96
-15	5	809	2761	696	1.08	3.70	747	4.29	25.62
-10	14	1010	3446	869	1.21	4.14	832	4.56	32.28