

Model

SC15CLX

Sales code:

104L2854

Compressor Data

Refrigerant(s)	R404A / R507
Refr. charge - tech. limit	1300g / 45.86oz
Weight	13.90 kg / 30.64lbs
Displacement	15.28 cm3 / 0.93cu.in
Compressors on pallet	80



General – Configurations With SC15CLX

-	Conf. 1
Motor configuration	CSCR
Power supply (nominal)	208-230 V/60 Hz
Number of phases	1
Voltage range	198-254 V
Approvals	UL, KC
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	3.500 Ohm
Oil viscosity	32cSt	Winding resistance aux	12.90 Ohm
Oil quantity	499 / 16.87fl.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	218mm / 8.58in
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 10.11–10.29 / 0.40–0.41in	øi 6.11–6.29 / 0.24–0.25in	øi 6.11–6.29 / 0.24–0.25in
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

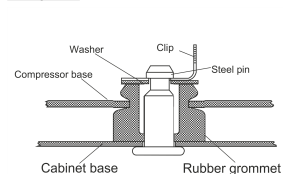
Mounting Accessories



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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Motor configuration	CSCR
Power supply (nominal)	208-230 V/60 Hz 1~
Refrigerant	R404A
Application	LBP
Voltage range	198-254 V
Starting torque	HST
Approvals	UL, KC
Starting device type	relay
Run capacitor	10 μF
Start capacitor	80 μF
LRA (locked rotor amps / 4s/ U(N))	22 A
RLA (rated load amps / 1s/ U(N))	3.9 A
Cut in current (U(N))	22 A

Ambient/ machine room temperatures minimum /maximum

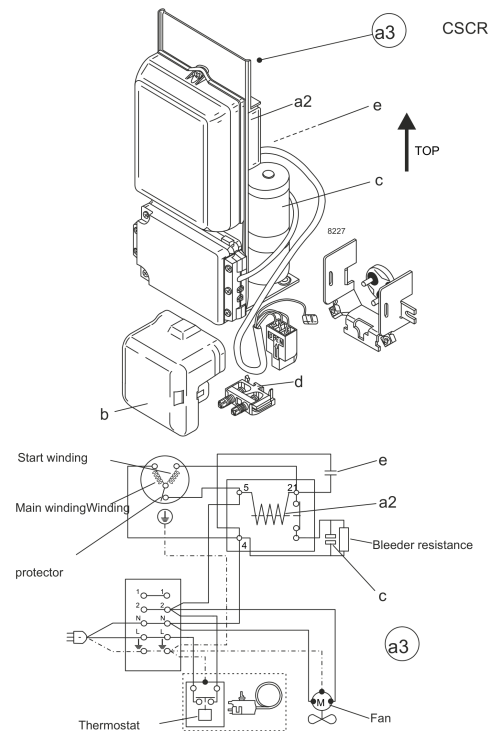
Ambient temperature range: 10 - 38°C / 50 - 100°F

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

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



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Components

a3 SC starter kit (550mm) 117-7039

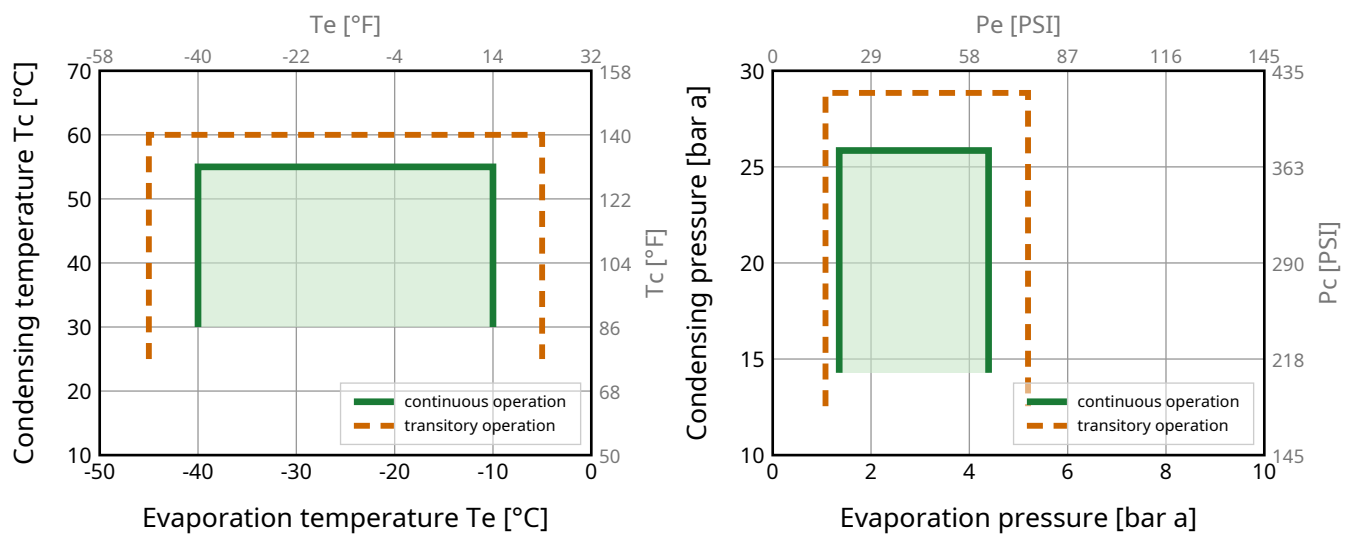
b plastic cover 103N2008

d cord relief 103N1004

Alternative components

a3 SC starter kit (1000mm) 117-7043

Operation Pressure Range



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Standard Conditions

R404A, 220 V/60 Hz, CSCR, 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	774	2642	666	1.23	4.20	629	2.98	18.00	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	508	1732	437	0.86	2.94	590	2.79	15.83	CECOMAF LBP
-35 -31	40 104	20 68	40 104	421	1436	362	0.95	3.26	441	2.10	11.41	EN12900 LBP
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	610	2082	525	0.96	3.27	636	3.03	21.54	ARI540 LBP
-23.3 -10	40.6 105.1	32.2 90	32.2 90	962	3283	827	1.50	5.11	642	3.05	22.37	AHAM LBP
-25 -13	45 113	32 89.6	45 113	720	2457	619	1.18	4.03	610	2.90	19.38	opt LBP

Performance Tables

R404A, 220 V/60 Hz, CSCR, 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]
-40	-40	179	611	154	0.59	2.02	303	1.51	4.76
-35	-31	351	1198	302	0.85	2.89	414	1.99	9.36
-30	-22	530	1807	455	1.03	3.50	516	2.46	14.18
-25	-13	720	2457	619	1.18	4.03	610	2.90	19.38
-20	-4	928	3166	798	1.33	4.53	699	3.33	25.12
-15	5	1158	3952	996	1.48	5.05	783	3.73	31.59
-10	14	1417	4835	1219	1.64	5.59	864	4.11	38.96

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

-40	-40	-	-	-	-	-	-	1.09	-
-35	-31	167	569	144	0.48	1.63	348	1.68	5.15
-30	-22	334	1141	288	0.71	2.41	473	2.24	10.37
-25	-13	508	1732	437	0.86	2.94	590	2.79	15.83
-20	-4	692	2361	595	0.99	3.37	700	3.31	21.73
-15	5	893	3047	768	1.11	3.78	806	3.81	28.27
-10	14	1116	3806	959	1.23	4.19	908	4.29	35.66