

Model
SC12CLX

Sales code:
104L2695

Compressor Data

Refrigerant(s)	R404A / R507
Refr. charge - tech. limit	1300g / 45.86oz
Weight	13.80 kg / 30.42lbs
Displacement	12.87 cm3 / 0.79cu.in
Compressors on pallet	80



General – Configurations With SC12CLX

-	Conf. 1
Motor configuration	CSIR
Power supply (nominal)	220-240 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	3.700 Ohm
Oil viscosity	32cSt	Winding resistance aux	13.70 Ohm
Oil quantity	500 / 16.91fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	1,510 cm ³ / 51.06fl.oz	Max. discharge temp.	135°C / 275°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 8.11–8.29 / 0.32–0.33in	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

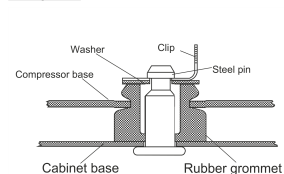
Mounting Accessories



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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Power supply (nominal)	220-240 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	-/-
Start capacitor	80 µF
LRA (locked rotor amps / 4s/ U(N))	23.4 A
RLA (rated load amps / 1s/ U(N))	4.3 A
Cut in current (U(N))	23.4 A

Ambient/ machine room temperatures minimum /maximum

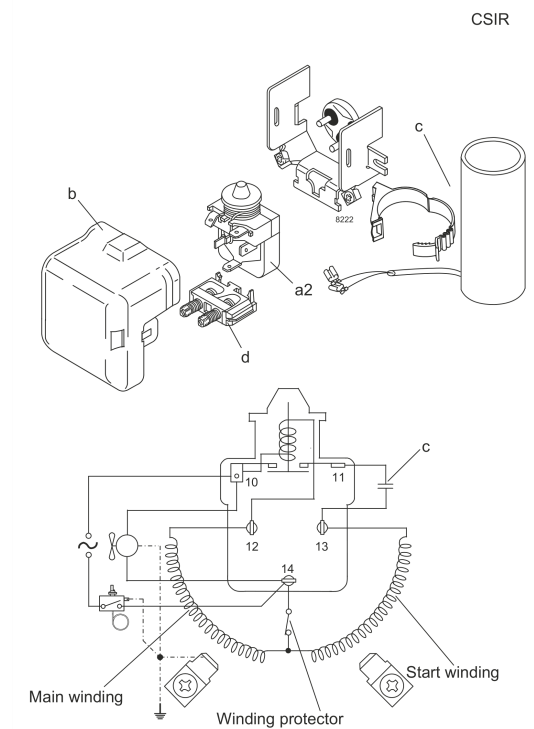
Ambient temperature range: 10 - 38°C / 50 - 100°F

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

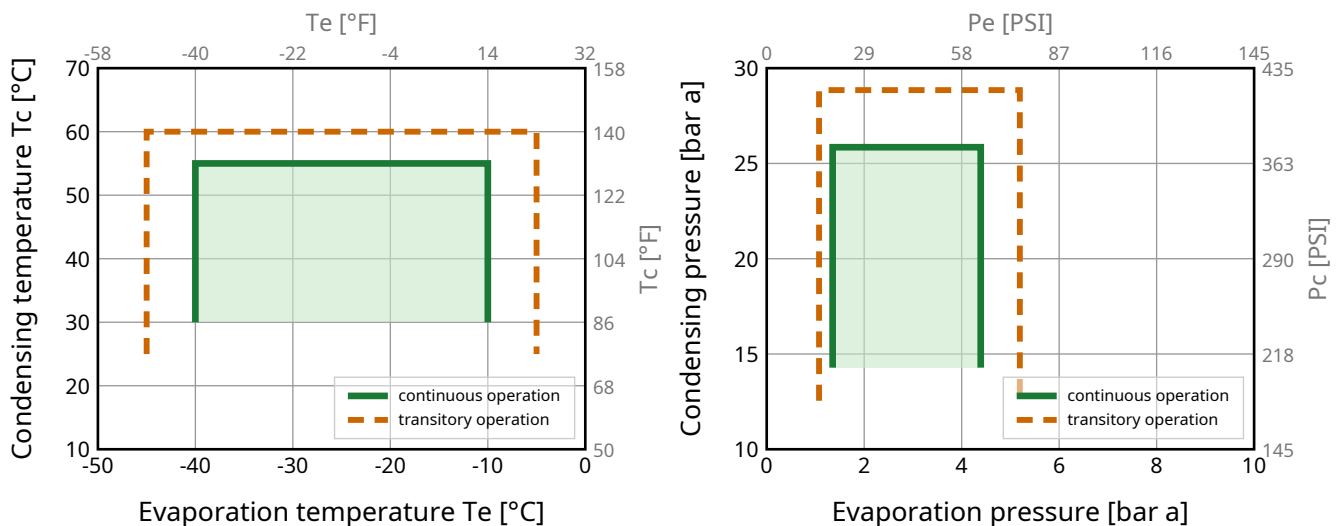
a2 relay 117U6019

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/60 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	698	2382	600	1.23	4.20	567	3.36	16.23	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	462	1578	398	0.86	2.95	535	3.24	14.42	CECOMAF LBP
-35 -31	40 104	20 68	40 104	326	1113	281	0.83	2.83	394	2.81	8.84	EN12900 LBP
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	516	1762	444	0.91	3.10	567	3.34	18.22	ARI540 LBP
-23.3 -10	40.6 105.1	32.2 90	32.2 90	776	2647	667	1.38	4.72	561	3.33	18.04	AHAM LBP
-25 -13	45 113	32 89.6	45 113	590	2013	507	1.09	3.73	540	3.23	15.88	opt LBP

Performance Tables

R404A, 220 V/60 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]
-40	-40	146	499	126	0.53	1.80	277	2.58	3.89
-35	-31	282	962	242	0.75	2.56	376	2.75	7.51
-30	-22	428	1462	369	0.93	3.17	462	2.96	11.47
-25	-13	590	2013	507	1.09	3.73	540	3.23	15.88
-20	-4	770	2627	662	1.25	4.26	616	3.54	20.85
-15	5	972	3317	836	1.40	4.77	696	3.91	26.51
-10	14	1200	4095	1032	1.53	5.22	784	4.32	33.00

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

-40	-40	25	86	22	0.14	0.47	184	2.40	0.78
-35	-31	164	560	141	0.52	1.76	319	2.63	5.07
-30	-22	309	1053	265	0.71	2.43	434	2.91	9.57
-25	-13	462	1578	398	0.86	2.95	535	3.24	14.42
-20	-4	629	2147	541	1.00	3.43	627	3.61	19.76
-15	5	812	2772	699	1.14	3.88	715	4.04	25.72
-10	14	1016	3467	874	1.26	4.31	806	4.51	32.48