

Model

SC18CLX.2

Sales code:

104L2197

Compressor Data

Refrigerant(s)	R404A / R507
Refr. charge - tech. limit	1300g / 45.86oz
Weight	13.80 kg / 30.42lbs
Displacement	17.69 cm3 / 1.08cu.in
Compressors on pallet	80



General – Configurations With SC18CLX.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, CCC, 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	3.300 Ohm
Oil viscosity	32cSt	Winding resistance aux	16.00 Ohm
Oil quantity	550 / 18.60fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	1,460 cm ³ / 49.37fl.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 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

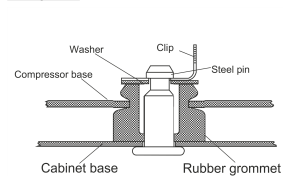
Mounting Accessories



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	CSIR
Power supply (nominal)	220-240 V/50 Hz 1~
Refrigerant	R404A
Application	LBP
Voltage range	198-254 V
Starting torque	HST
Approvals	VDE, CCC, EAC
Starting device type	relay
Run capacitor	-/-
Start capacitor	125 µF
LRA (locked rotor amps / 4s/ U(N))	25 A
RLA (rated load amps / 1s/ U(N))	4.5 A
Cut in current (U(N))	25 A

Ambient/ machine room temperatures minimum /maximum

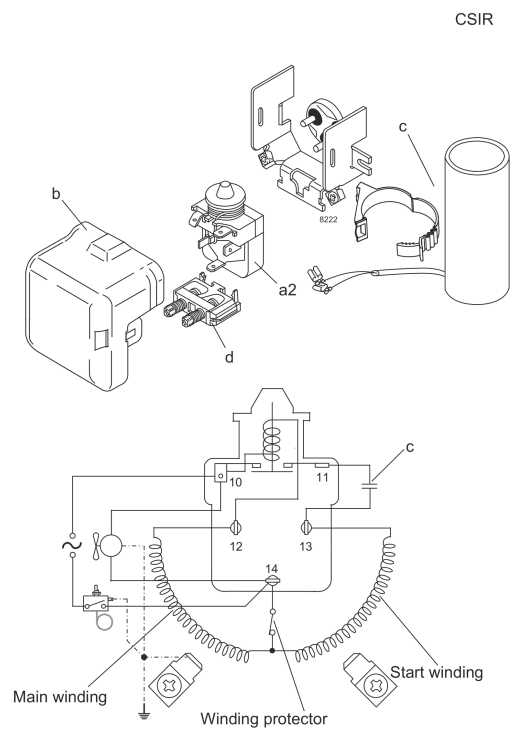
Ambient temperature range: 10 - 38°C / 50 - 100°F

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

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



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Components

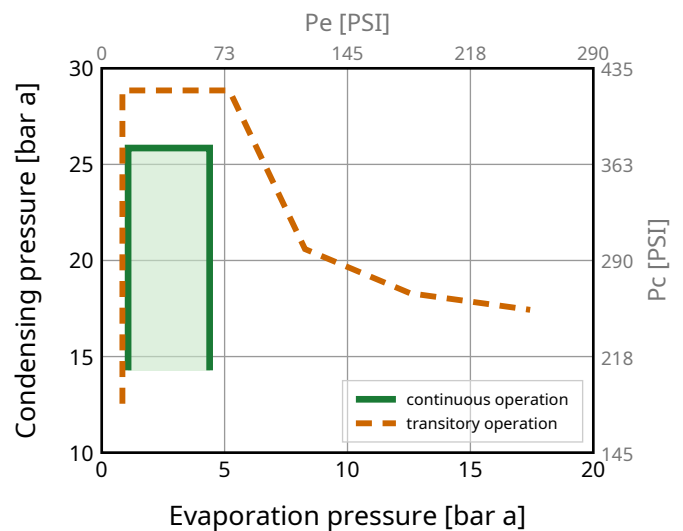
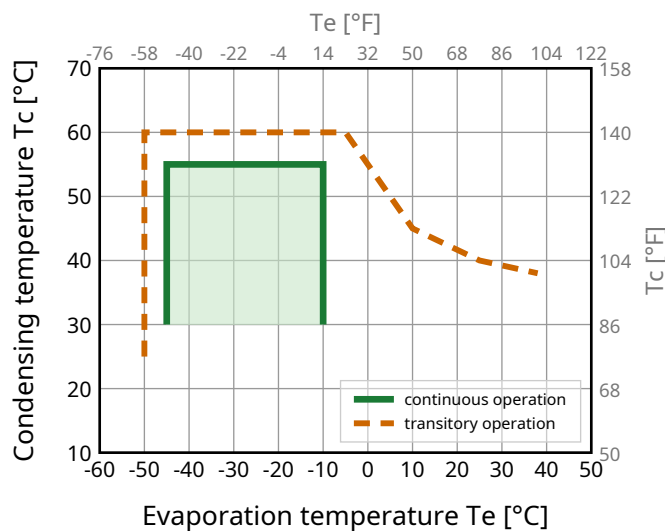
a2 relay 117U6013

c start capacitor (125µF) 117U5012

d cord relief 103N1004

b plastic cover 103N2009

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	886	3023	762	1.20	4.09	739	4.46	20.60	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	595	2030	512	0.84	2.87	708	4.34	18.56	CECOMAF LBP
-35 -31	40 104	20 68	40 104	480	1639	413	0.93	3.19	514	3.68	13.02	EN12900 LBP
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	671	2289	577	0.93	3.18	720	4.42	23.67	ARI540 LBP
-23.3 -10	40.6 105.1	32.2 90	32.2 90	1024	3493	880	1.47	5.03	695	4.34	23.80	AHAM LBP
-25 -13	45 113	32 89.6	45 113	780	2661	671	1.15	3.91	680	4.28	20.99	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	194	664	167	0.55	1.87	354	3.13	5.15
-40	-40	306	1044	263	0.70	2.39	436	3.40	8.13
-35	-31	439	1497	377	0.85	2.89	517	3.68	11.70
-30	-22	595	2032	512	1.00	3.40	598	3.98	15.95
-25	-13	780	2661	671	1.15	3.91	680	4.28	20.99
-20	-4	995	3395	856	1.30	4.44	765	4.60	26.94
-15	5	1245	4247	1071	1.46	4.97	854	4.92	33.94
-10	14	1532	5227	1318	1.61	5.51	949	5.25	42.12

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

-45	-49	93	318	80	0.29	0.99	320	3.00	2.85
-40	-40	191	651	164	0.45	1.55	421	3.32	5.86
-35	-31	305	1040	262	0.59	2.01	518	3.65	9.40
-30	-22	438	1496	377	0.71	2.44	613	3.99	13.59
-25	-13	595	2030	512	0.84	2.87	708	4.34	18.56
-20	-4	778	2655	669	0.97	3.30	805	4.70	24.43
-15	5	991	3381	852	1.09	3.74	905	5.07	31.36
-10	14	1236	4219	1063	1.23	4.18	1009	5.45	39.52