

Model

SC18CLX.2

Sales code:

104L2185

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	CSCR
Power supply (nominal)	208-240 V/60 Hz
Number of phases	1
Voltage range	187-254 V
Approvals	UL, KC
Starting torque	HST
Refrigerant	R404A
Application	LBP
Hot gas defrost	OK
Long interval pull down	OK

Application Notes

- Compressor with noise optimization kit.
- Provision for PE Grounding is located at the PE Stamp on the compressor

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Compressor Design

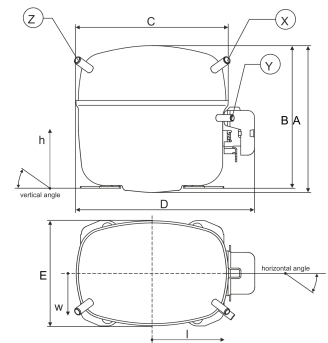
Oil type	POE	Winding resistance main	2.69 Ohm
Oil viscosity	32cSt	Winding resistance aux	9.49 Ohm
Oil quantity	550 / 18.60fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	1,460 cm ³ / 49.37fl.oz	Max. discharge temp.	130°C / 266°F
Motor protection	internal		

Compressor Dimensions

Housing

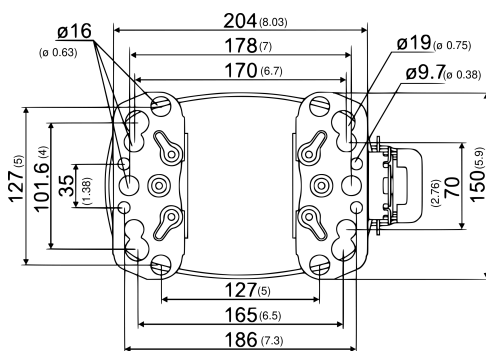
A Height	219mm / 8.62in
B Height	213mm / 8.39in
C Length shell	239mm / 9.41in
D Length w. cover	255mm / 10.04in
E Width	151mm / 5.94in

[Find 3D Model here](#)



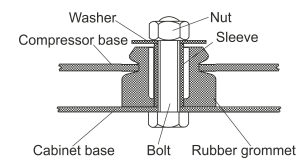
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 9.54–9.72 / 0.38–0.38in	øi 6.41–6.59 / 0.25–0.26in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	143°
Vertical angle ±2°	30°	0°	150°
Position l/h/w [mm]	107/193/55 / 4.21/7.60/2.17in	115/110/63 / 4.53/4.33/2.48in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

Mounting Accessories

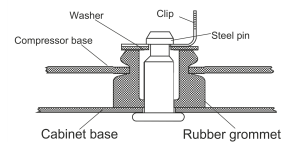


Dimensions in mm [in]

Bolt joint



Snap-on



	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)	208-240 V/60 Hz 1~
Refrigerant	R404A
Application	LBP
Voltage range	187-254 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))	27.32 A
RLA (rated load amps / 1s/ U(N))	4.6 A
Cut in current (U(N))	27.32 A

Ambient/ machine room temperatures minimum /maximum

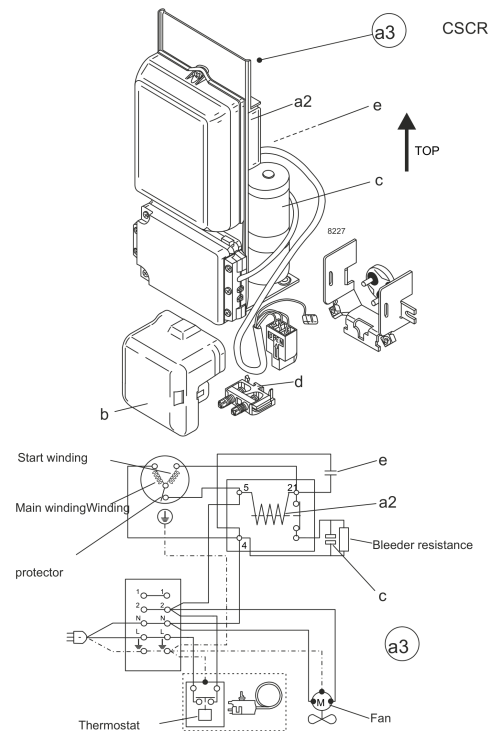
Ambient temperature range: 10 - 38°C / 50 - 100°F

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

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram


[View full size](#)

Components

a3 SC starter kit 117-7066

b plastic cover 103N2008

d cord relief 103N1004

Alternative components

a2 potential relay (RVA 2GR134) 117-7445

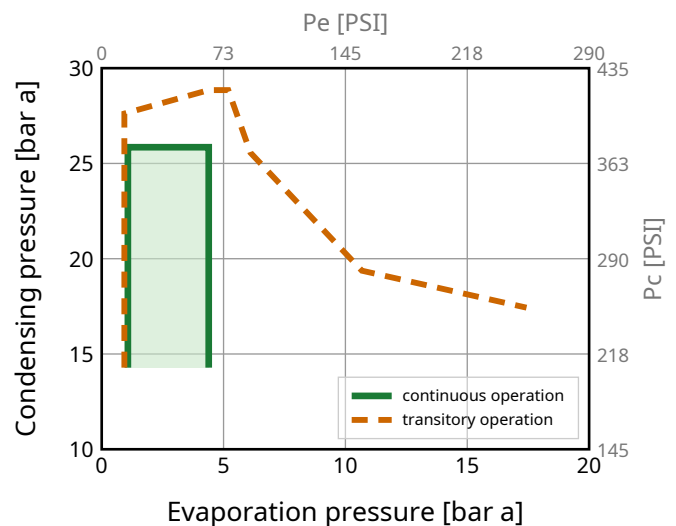
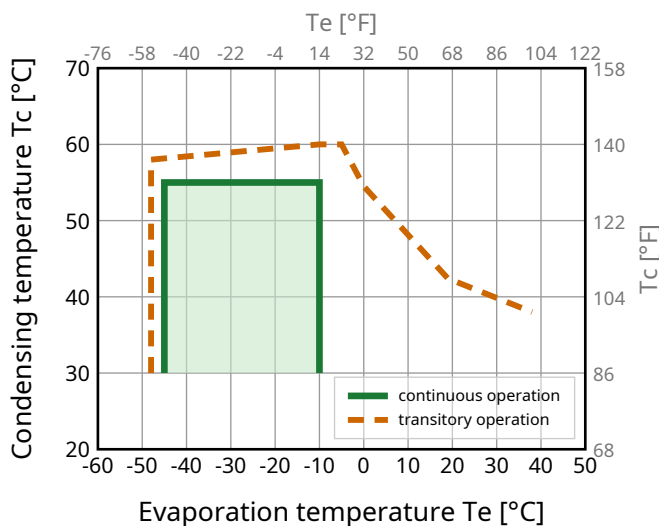
e run capacitor (10 μ F, 6.3mm) 117-7121

c start capacitor (80 μ F) 117U5373

b plastic cover 103N2008

d cord relief 103N1004

Operation Pressure Range



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Standard Conditions

R404A, 230 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	1024	3493	880	1.37	4.67	747	3.55	23.79	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	691	2359	595	0.98	3.35	705	3.37	21.56	CECOMAF LBP
-35 -31	40 104	20 68	40 104	522	1782	449	0.98	3.36	530	2.67	14.15	EN12900 LBP
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	760	2592	653	1.00	3.42	757	3.59	26.80	ARI540 LBP
-23.3 -10	40.6 105.1	32.2 90	32.2 90	1094	3732	941	1.52	5.19	718	3.42	25.42	AHAM LBP
-35 -31	45 113	32 89.6	45 113	481	1643	414	0.92	3.14	523	2.64	12.84	opt LBP

Performance Tables

R404A, 230 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]
-45	-49	92	315	79	0.31	1.07	294	1.73	2.44
-40	-40	293	1000	252	0.71	2.41	415	2.21	7.79
-35	-31	481	1643	414	0.92	3.14	523	2.64	12.84
-30	-22	668	2279	574	1.07	3.67	621	3.03	17.89
-25	-13	864	2947	743	1.21	4.14	712	3.40	23.24
-20	-4	1080	3684	928	1.35	4.62	797	3.75	29.23
-15	5	1327	4527	1141	1.51	5.15	880	4.09	36.17
-10	14	1616	5513	1390	1.68	5.73	962	4.44	44.42

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

-45	-49	-	-	-	-	-	-	1.11	-
-40	-40	101	344	87	0.32	1.10	314	1.77	3.10
-35	-31	313	1068	269	0.68	2.33	458	2.36	9.66
-30	-22	506	1727	435	0.86	2.94	588	2.89	15.70
-25	-13	691	2359	595	0.98	3.35	705	3.37	21.56
-20	-4	879	3000	756	1.08	3.69	813	3.82	27.61
-15	5	1081	3689	930	1.18	4.04	914	4.25	34.22
-10	14	1308	4461	1124	1.29	4.42	1010	4.65	41.79