

Model

SC18CLX.2

Sales code:

104L2172

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)	208-230 V/60 Hz
Number of phases	1
Voltage range	187-254 V
Approvals	VDE, UL
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	2.500 Ohm
Oil viscosity	32cSt	Winding resistance aux	9.50 Ohm
Oil quantity	550 / 18.60fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	1,460 cm³ / 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

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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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Motor configuration	CSCR
Power supply (nominal)	208-230 V/60 Hz 1~
Refrigerant	R404A
Application	LBP
Voltage range	187-254 V
Starting torque	HST
Approvals	VDE, UL
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

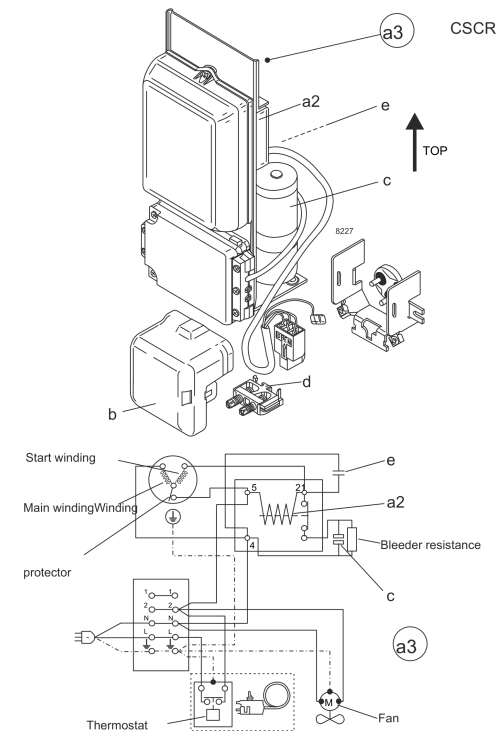
Ambient temperature range: 10 - 38°C / 50 - 100°F

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

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



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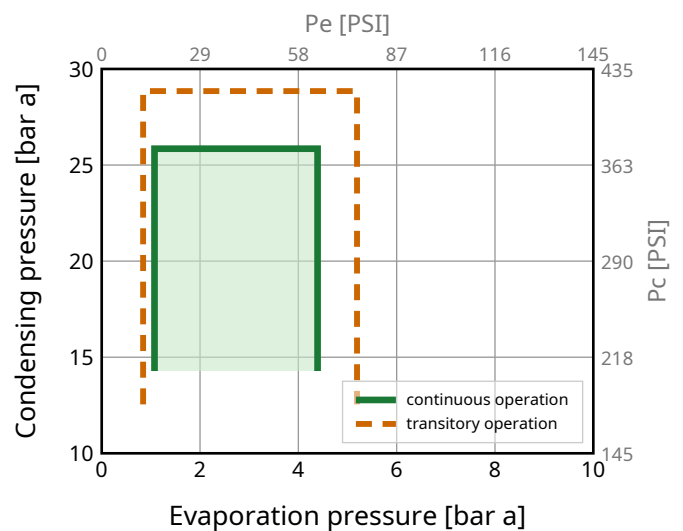
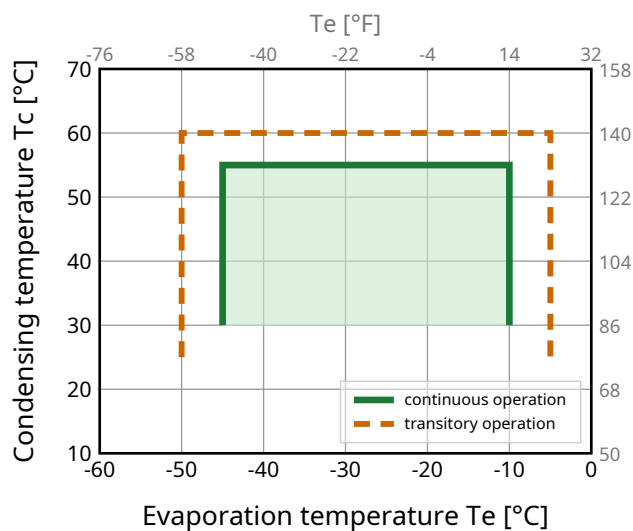
Components

a3 SC starter kit 117-7066

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	1114	3800	958	1.39	4.76	799	3.82	25.89	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	764	2608	657	1.00	3.41	766	3.68	23.84	CECOMAF LBP
-35 -31	40 104	20 68	40 104	590	2012	507	1.03	3.51	574	2.94	15.98	EN12900 LBP
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	811	2768	698	1.03	3.51	789	3.78	28.62	ARI540 LBP
-23.3 -10	40.6 105.1	32.2 90	32.2 90	1200	4094	1032	1.56	5.32	769	3.71	27.90	AHAM LBP
-25 -13	45 113	32 89.6	45 113	938	3200	807	1.25	4.25	752	3.63	25.24	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	113	385	97	0.36	1.23	312	2.20	2.98
-40	-40	338	1155	291	0.76	2.58	447	2.56	8.99
-35	-31	542	1850	466	0.96	3.29	563	2.92	14.46
-30	-22	737	2516	634	1.11	3.79	663	3.28	19.75
-25	-13	938	3200	807	1.25	4.25	752	3.63	25.24
-20	-4	1157	3949	995	1.39	4.74	834	3.98	31.34
-15	5	1410	4810	1212	1.55	5.28	912	4.33	38.44
-10	14	1708	5828	1469	1.73	5.89	990	4.67	46.96

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

-45	-49	-	-	-	-	-	-	2.02	-
-40	-40	159	541	136	0.40	1.37	394	2.44	4.88
-35	-31	383	1305	329	0.71	2.44	535	2.86	11.80
-30	-22	580	1979	499	0.88	3.01	658	3.27	17.98
-25	-13	764	2608	657	1.00	3.41	766	3.68	23.84
-20	-4	950	3241	817	1.10	3.76	863	4.09	29.83
-15	5	1150	3923	989	1.21	4.11	953	4.50	36.40
-10	14	1378	4702	1185	1.32	4.52	1041	4.90	44.05