

Model

SC12CLX.2

Sales code:

104L2699

Compressor Data

Refrigerant(s)	R404A / R507
Refr. charge - tech. limit	1300g / 45.86oz
Weight	13.70 kg / 30.20lbs
Displacement	12.87 cm3 / 0.79cu.in
Compressors on pallet	80



General – Configurations With SC12CLX.2

-	Conf. 1
Motor configuration	CSCR
Power supply (nominal)	208-230 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

- Provision for PE Grounding is located at the PE Stamp on the compressor

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Compressor Design

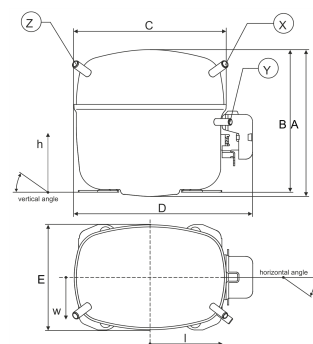
Oil type	POE	Winding resistance main	3.700 Ohm
Oil viscosity	32cSt	Winding resistance aux	13.70 Ohm
Oil quantity	500 / 16.91fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	1,510 cm3 / 51.06fl.oz	Max. discharge temp.	135°C / 275°F
Motor protection	internal		

Compressor Dimensions

Housing

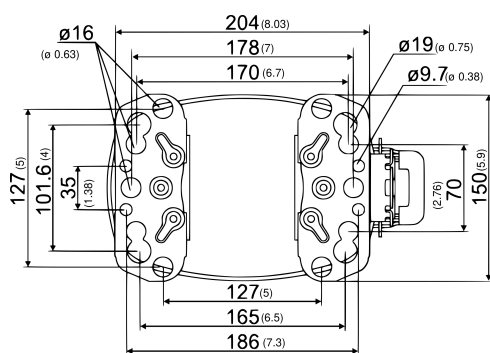
A Height	219mm / 8.62in
B Height	213mm / 8.39in
C Length shell	239mm / 9.41in
D Length w. cover	255mm / 10.04in
E Width	151mm / 5.94in

[Find 3D Model here](#)



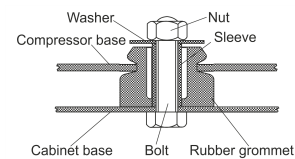
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 9.54–9.72 / 0.38–0.38in	øi 6.41–6.59 / 0.25–0.26in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	143°
Vertical angle ±2°	30°	0°	150°
Position l/h/w [mm]	107/193/55 / 4.21/7.60/2.17in	115/110/63 / 4.53/4.33/2.48in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

Mounting Accessories

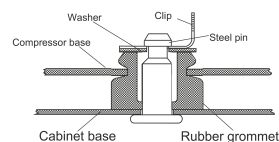


Dimensions in mm [in]

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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Configuration 1

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Configuration

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	UL, KC
Starting device type	relay
Run capacitor	10 µF
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

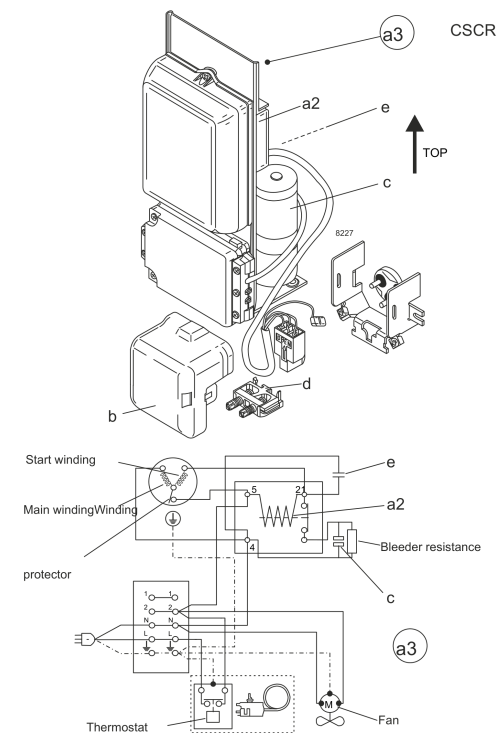
Ambient temperature range: 10 - 38°C / 50 - 100°F

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

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



[View full size](#)

Components

a3 SC starter kit (550mm) 117-7027

b plastic cover 103N2009

d cord relief 103N1004

Alternative components

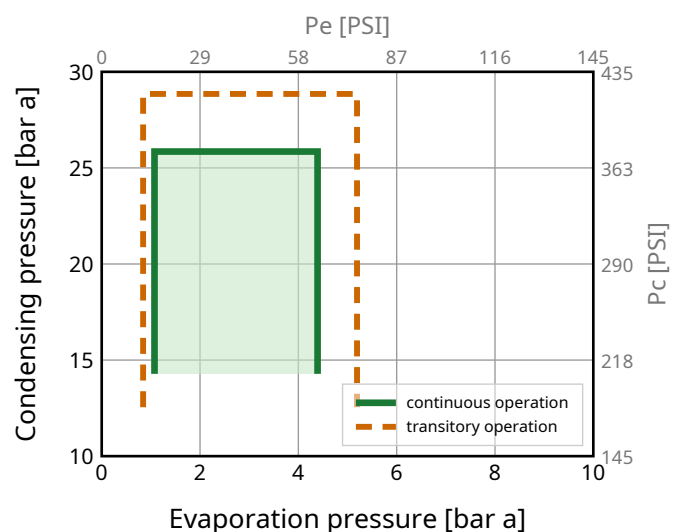
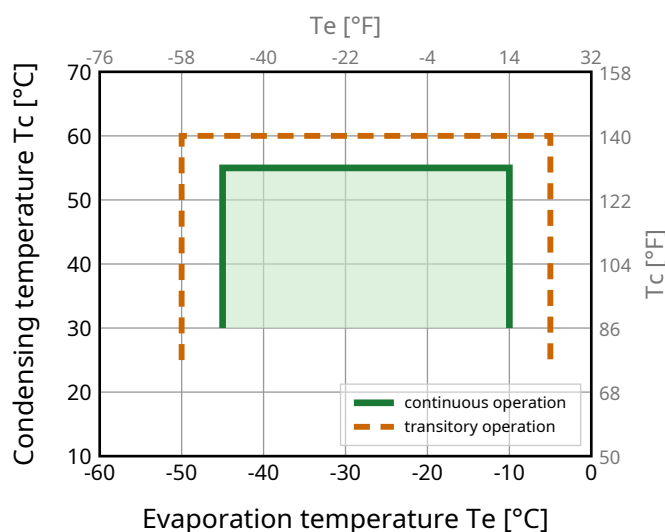
a3 SC starter kit (1000mm) 117-7040

a3 SC starter kit (650mm) 117-7046

c start capacitor (80µF) 117U5373

e run capacitor (10µF, 6.3mm) 117-7112

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	707	2412	608	1.27	4.33	557	2.30	16.43	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	473	1613	406	0.88	3.01	535	2.23	14.74	CECOMAF LBP
-35 -31	40 104	20 68	40 104	379	1292	326	0.95	3.24	399	1.95	10.26	EN12900 LBP
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	538	1836	463	0.99	3.38	544	2.30	18.99	ARI540 LBP
-23.3 -10	40.6 105.1	32.2 90	32.2 90	826	2817	710	1.57	5.36	526	2.28	19.19	AHAM LBP
-25 -13	45 113	32 89.6	45 113	626	2135	538	1.21	4.14	515	2.24	16.84	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	141	481	121	0.49	1.68	286	1.70	3.74
-40	-40	233	796	201	0.68	2.31	344	1.80	6.20
-35	-31	343	1171	295	0.86	2.92	401	1.93	9.15
-30	-22	473	1614	407	1.03	3.53	458	2.08	12.66
-25	-13	626	2135	538	1.21	4.14	515	2.24	16.84
-20	-4	804	2743	691	1.40	4.77	575	2.42	21.77
-15	5	1010	3448	869	1.58	5.41	638	2.62	27.55
-10	14	1248	4259	1074	1.77	6.04	705	2.83	34.32

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

-45	-49	57	195	49	0.22	0.74	262	1.56	1.75
-40	-40	138	471	119	0.41	1.41	333	1.70	4.24
-35	-31	232	793	200	0.58	1.98	401	1.86	7.17
-30	-22	343	1170	295	0.73	2.50	468	2.03	10.63
-25	-13	473	1613	406	0.88	3.01	535	2.23	14.74
-20	-4	624	2129	537	1.03	3.53	603	2.44	19.60
-15	5	800	2730	688	1.19	4.05	674	2.67	25.33
-10	14	1004	3425	863	1.34	4.59	747	2.92	32.08