

Model
SC21FTX

Sales code:
104G8106

Compressor Data

Refrigerant(s)	R134a
Refr. charge - tech. limit	1300g / 45.86oz
Weight	13.70 kg / 30.20lbs
Displacement	20.95 cm3 / 1.28cu.in
Compressors on pallet	80



General – Configurations With SC21FTX

-	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, KC
Starting torque	HST
Refrigerant	R134a
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
- LRA value on compressor label and datasheet may differ due to different test conditions for UL approval.

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Compressor Design

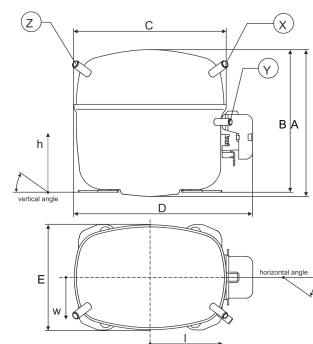
Oil type	POE	Winding resistance main	3.300 Ohm
Oil viscosity	22cSt	Winding resistance aux	13.60 Ohm
Oil quantity	550 / 18.60fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	1,460 cm3 / 49.37fl.oz	Max. discharge temp.	135°C / 275°F
Motor protection	internal		

Compressor Dimensions

Housing

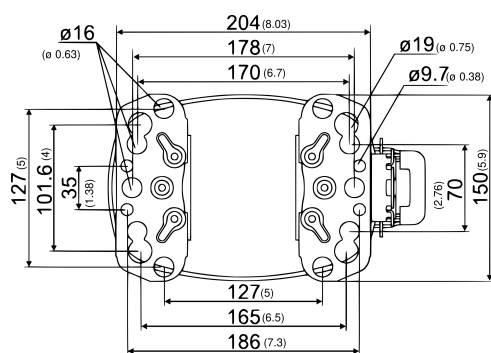
A Height	219mm / 8.62in
B Height	213mm / 8.39in
C Length shell	218mm / 8.58in
D Length w. cover	255mm / 10.04in
E Width	151mm / 5.94in

[Find 3D Model here](#)



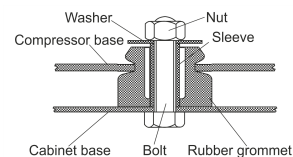
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 10.11–10.29 / 0.40–0.41in	øi 6.11–6.29 / 0.24–0.25in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	143°
Vertical angle ±2°	30°	0°	150°
Position l/h/w [mm]	107/193/55 / 4.21/7.60/2.17in	115/110/63 / 4.53/4.33/2.48in	-107/193/55 / -4.21/7.60/2.17in
Straight tube l. [mm]	12 / 0.47in	12 / 0.47in	12 / 0.47in

Mounting Accessories

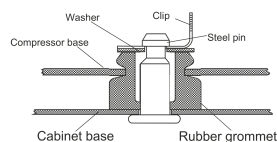


Dimensions in mm [in]

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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Motor configuration	CSCR
Power supply (nominal)	208-230 V/60 Hz 1~
Refrigerant	R134a
Application	LBP
Voltage range	187-254 V
Starting torque	HST
Approvals	VDE, UL, KC
Starting device type	relay
Run capacitor	10 μF
Start capacitor	80 μF
RLA (rated load amps / 1s/ U(N))	-/-A

Ambient/ machine room temperatures minimum /maximum

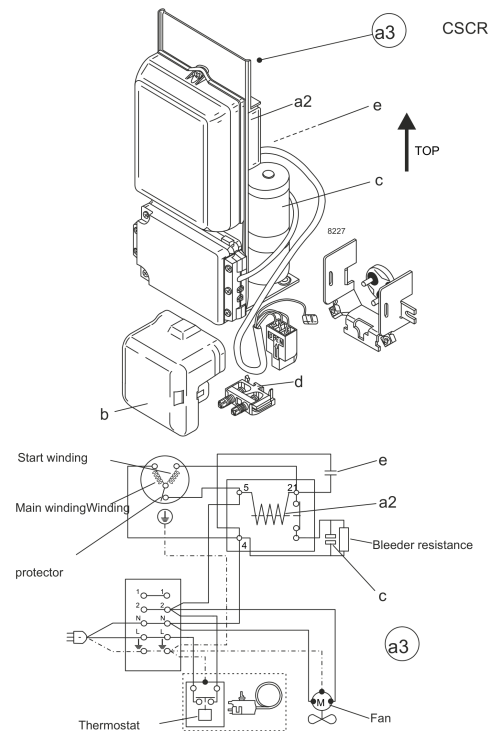
Ambient temperature range: 10 - 43°C / 50 - 109°F

Machine room temp. compressor: 10 - 48°C / 50 - 118°F

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



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Components

a3 SC starter kit (550mm) 117-7039

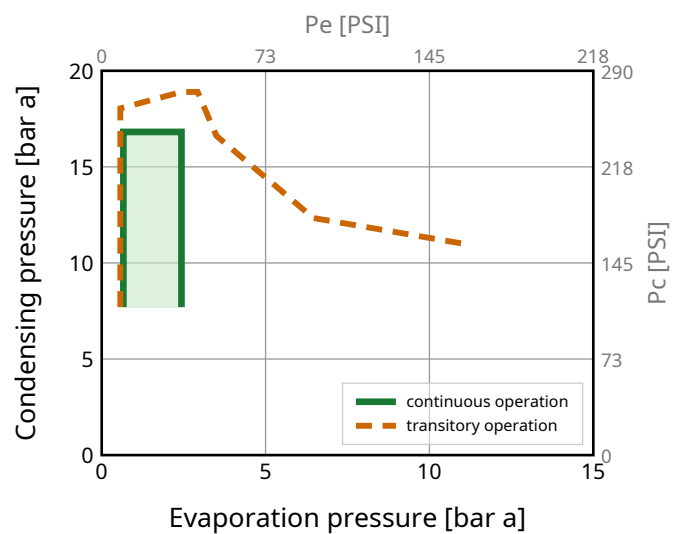
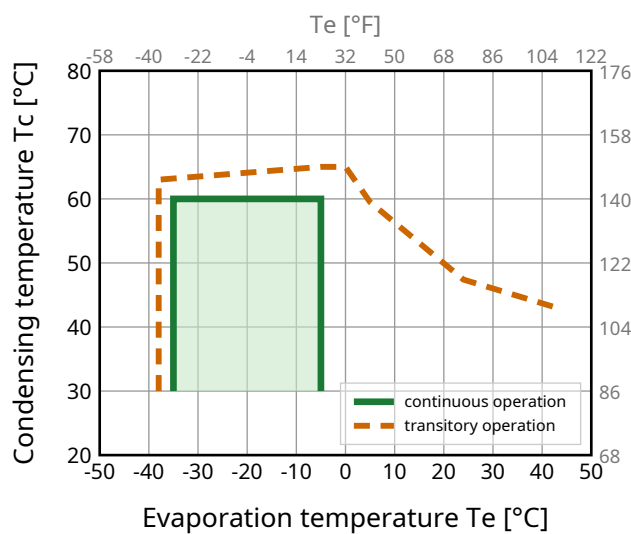
b plastic cover 103N2008

d cord relief 103N1004

Alternative components

a3 SC starter kit (1000mm) 117-7043

Operation Pressure Range



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Standard Conditions

R134a, 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	640	2182	550	1.28	4.38	498	2.36	12.41	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	470	1604	404	0.99	3.37	475	2.25	11.21	CECOMAF LBP
-35 -31	40 104	20 68	40 104	316	1080	272	0.91	3.12	347	1.70	6.92	EN12900 LBP
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	527	1799	453	1.08	3.68	488	2.34	13.83	ARI540 LBP
-23.3 -10	40.6 105.1	32.2 90	32.2 90	698	2380	600	1.47	5.03	474	2.29	13.53	AHAM LBP
-25 -13	45 113	32 89.6	45 113	555	1893	477	1.20	4.11	461	2.22	12.00	opt LBP

Performance Tables

R134a, 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]
-35	-31	297	1012	255	0.85	2.91	347	1.70	6.39
-30	-22	413	1410	355	1.02	3.50	403	1.95	8.92
-25	-13	555	1893	477	1.20	4.11	461	2.22	12.00
-20	-4	725	2474	624	1.39	4.73	524	2.52	15.72
-15	5	928	3167	798	1.56	5.33	594	2.83	20.19
-10	14	1168	3985	1004	1.73	5.90	676	3.17	25.51
-5	23	1448	4942	1246	1.88	6.40	772	3.53	31.78

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

-35	-31	240	820	207	0.70	2.40	342	1.67	5.71
-30	-22	345	1176	296	0.84	2.88	409	1.95	8.20
-25	-13	470	1604	404	0.99	3.37	475	2.25	11.21
-20	-4	620	2117	534	1.14	3.88	545	2.58	14.84
-15	5	800	2729	688	1.29	4.39	621	2.93	19.20
-10	14	1012	3454	871	1.43	4.89	707	3.30	24.41
-5	23	1262	4306	1085	1.57	5.35	805	3.69	30.59