Single
Packs

Single Pack SC21FTX 208-230V 60Hz CSCR

Single pack code number: **195B4291**

Position	Title	Code	Amount
1	Compressor SC21FTX	104G8106	1
2	SC starting device (550mm)	117-7039	1
3	Cord relief	103N1004	1
4	Cover	103N2008	1
5	Bolt joint for one compressor | M6 | ø16mm	118-1917	1

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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.

Model
SC21FTX

Sales code:
104G8106

Compressor Design

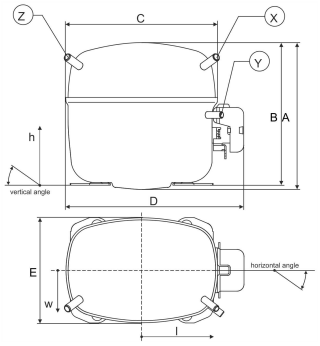
Oil type	**POE**	Winding resistance main	**3.4 Ohm**
Oil viscosity	**22cSt**	Winding resistance aux	**14.4 Ohm**
Oil quantity	**550 / 18.60fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**1,460 cm3 / 49.37fl.oz**	Max. discharge temp.	**135°C / 275°F**
Motor protection	**internal**		

Compressor Dimensions

Housing

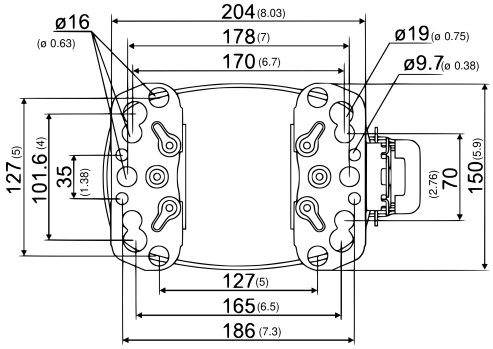
A Height	**219mm / 8.62in**
B Height	**213mm / 8.39in**
C Length shell	**218mm / 8.58in**
D Length w. cover	**255mm / 10.04in**
E Width	**151mm / 5.94in**

Find 3D Model here



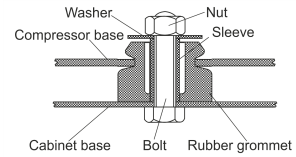
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 10.11–10.29 / 0.40–0.41in	øi 6.11–6.29 / 0.24–0.25in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	143°
Vertical angle ±2°	30°	0°	150°
Position l/h/w [mm]	107/193/55 / 4.21/7.60/2.17in	115/110/63 / 4.53/4.33/2.48in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

Mounting Accessories

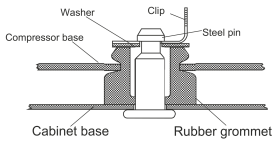


Dimensions in mm [in]

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

Model
SC21FTX Configuration 1

Sales code:
104G8106

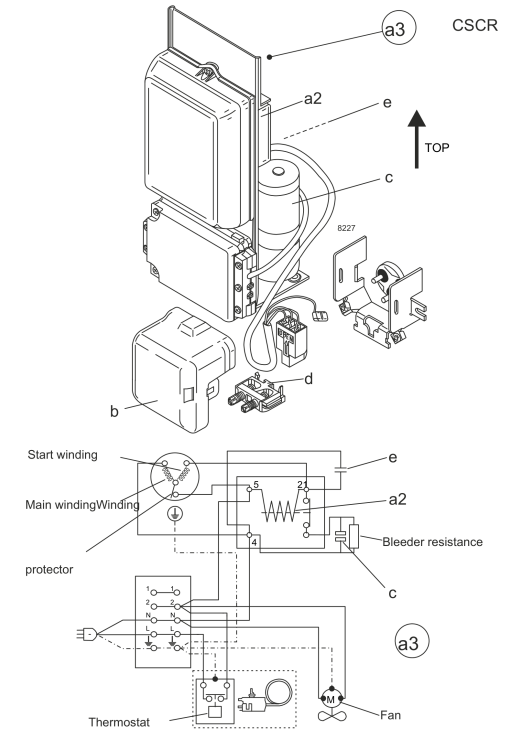
Configuration

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

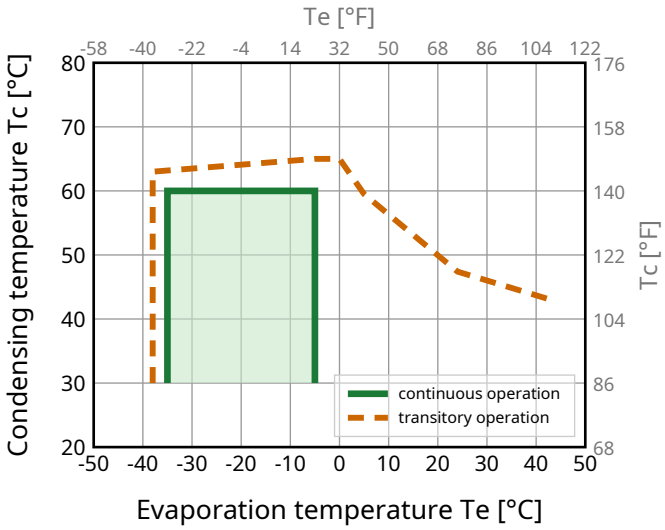


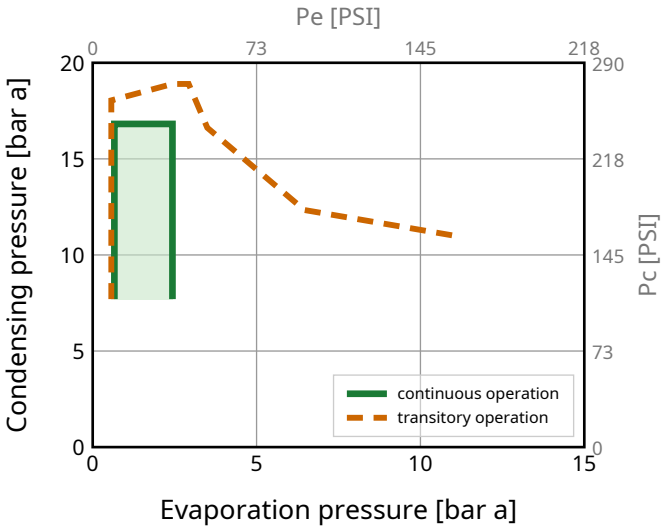
View full size

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





Model
SC21FTX Configuration 1

Sales code:
104G8106

Standard Conditions

R134a, 230 V/60 Hz, CSCR, fan 3m/s

pe	pc	RGT	Tliq	Cooling capacity			COP	EER	P	I	ṁ	
[°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**
-35 -31	45 113	32 89.6	45 113	**297**	1012	255	**0.85**	2.91	347	1.70	6.39	**opt LBP**

Performance Tables

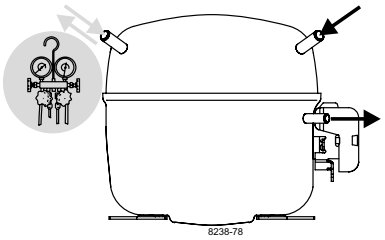
R134a, 230 V/60 Hz, CSCR, fan 3m/s

pc= 45/113 | RGT= 32/89.6 | Tliq= 45/113 | °C/°F

pe		Cooling capacity			COP	EER	P	I	ṁ
[°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



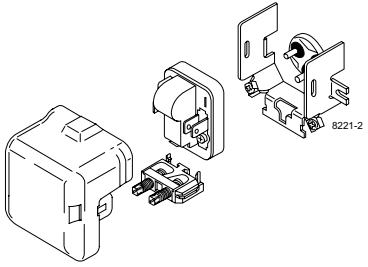
SC Compressors

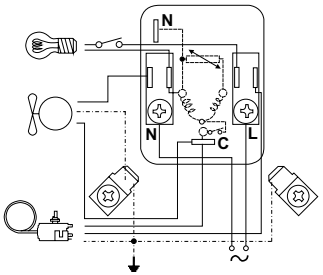
SECOP

Keep electrical equipment clear from oil, chemicals, and water

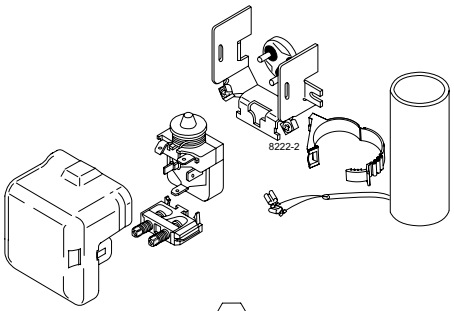
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

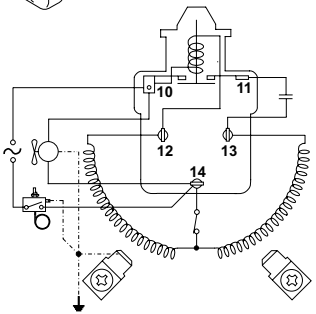
RSIR



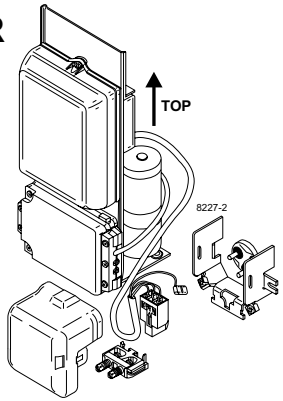


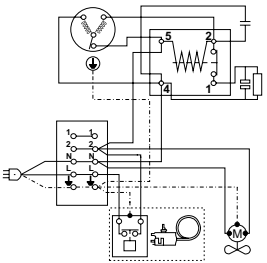
CSIR

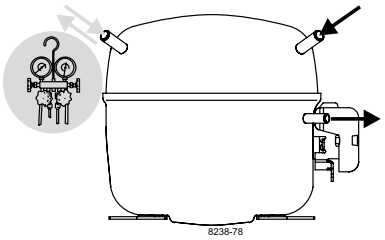




CSCR







SC Compressors

SECOP

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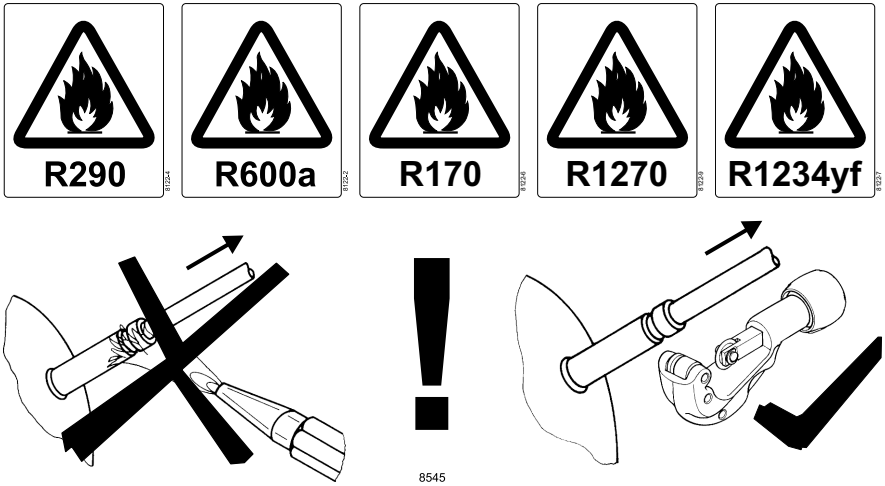
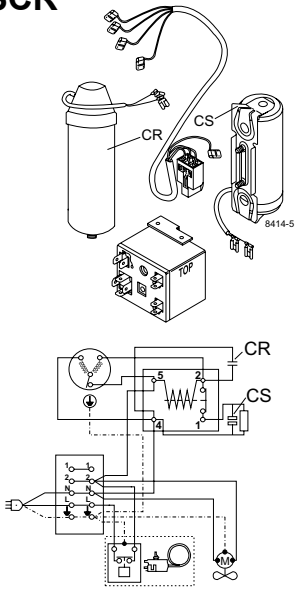
Service/Repair – R290, R600a, R170, R1270, R1234yf

(applies to all flammable refrigerants)



CSCR



Dismantling, recycling, disposal: At the end of a compressor's lifecycle, proceed by separating and storing components according to their environmental impact. Parts that may cause pollution must be clearly identified and handled separately, ensuring appropriate disposal. Refrigerant gas must not be released into the environment and should be recovered by qualified operators. Compressor oil must also be collected separately. The compressor should be disposed of at specialized disposal centers in accordance with the applicable regulations. **Subject to modifications/alterations. www.secop.com**