Single
Packs

Single Pack SC18G 208-230V 60Hz CSCR

Single pack code number: **195B4514**

Position	Title	Code	Amount
1	Compressor SC18G	104G8823	1
2	SC starting device (550mm)	117-7029	1
3	Cord relief	103N1004	1
4	Cover	103N2009	1
5	Bolt joint for one compressor | M6 | ø16mm	118-1917	1

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Model
SC18G

Sales code:
104G8823

Compressor Data

Refrigerant(s)	**R134a**
Refr. charge - tech. limit	**1300g / 45.86oz**
Weight	**13.60 kg / 29.98lbs**
Displacement	**17.69 cm3 / 1.08cu.in**
Compressors on pallet	**80**

General – Configurations With SC18G

–	**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	R134a
Application	MBP
Hot gas defrost	OK
Long interval pull down	OK

Application Notes

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

Model
SC18G

Sales code:
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Compressor Design

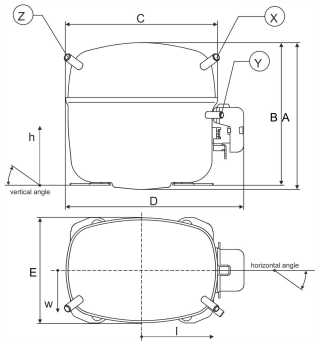
Oil type	**POE**	Winding resistance main	**3.5 Ohm**
Oil viscosity	**22cSt**	Winding resistance aux	**13 Ohm**
Oil quantity	**550 / 18.60fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**1,460 cm3 / 49.37fl.oz**	Max. discharge temp.	**135°C / 275°F**
Motor protection	**internal**		

Compressor Dimensions

Housing

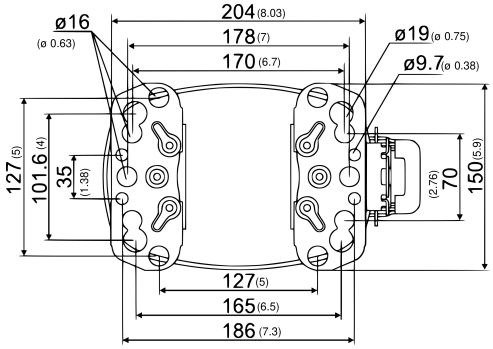
A Height	**219mm / 8.62in**
B Height	**213mm / 8.39in**
C Length shell	**218mm / 8.58in**
D Length w. cover	**255mm / 10.04in**
E Width	**151mm / 5.94in**

Find 3D Model here



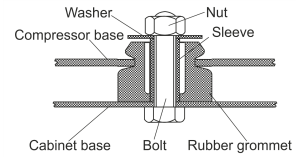
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 10.11–10.29 / 0.40–0.41in	øi 6.41–6.59 / 0.25–0.26in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	143°
Vertical angle ±2°	30°	0°	150°
Position l/h/w [mm]	107/193/55 / 4.21/7.60/2.17in	115/110/63 / 4.53/4.33/2.48in	-107/193/55 / -4.21/7.60/2.17in
Straight tube l. [mm]	12 / 0.47in	12 / 0.47in	12 / 0.47in

Mounting Accessories

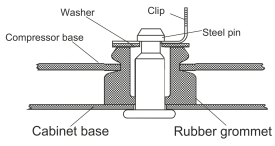


Dimensions in mm [in]

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

Model
SC18G Configuration 1

Sales code:
104G8823

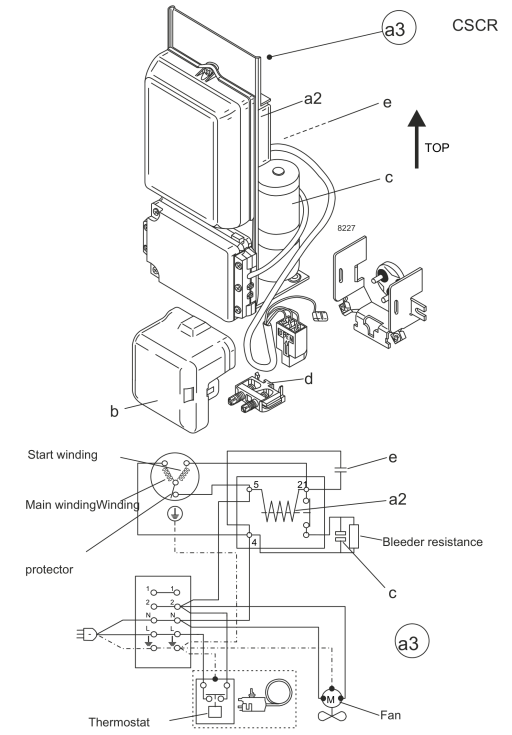
Configuration

Motor configuration	**CSCR**
Power supply (nominal)	**208-230 V/60 Hz 1~**
Refrigerant	**R134a**
Application	**MBP**
Voltage range	**187-254 V**
Starting torque	**HST**
Approvals	**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

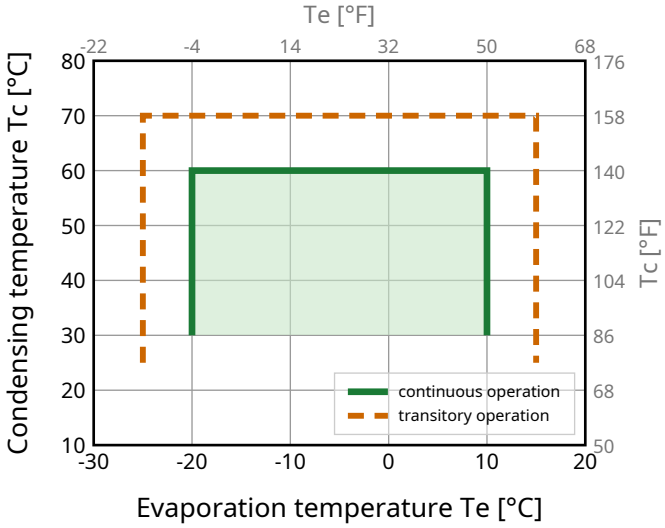


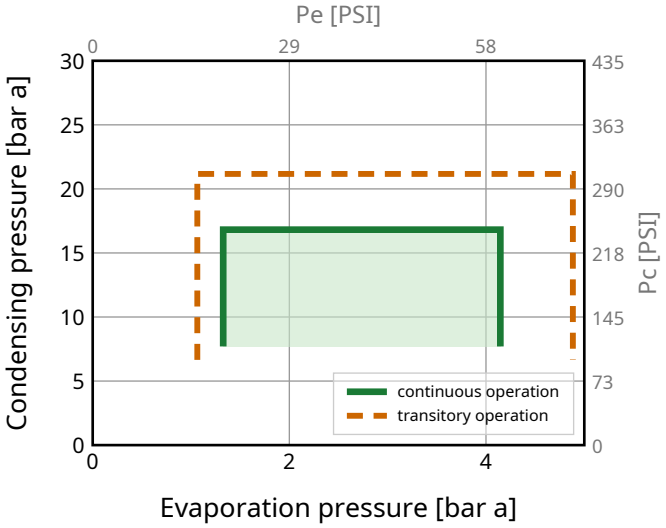
View full size

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
SC18G Configuration 1

Sales code:
104G8823

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]	
-6.7 20	54.4 129.9	35 95	46.1 115	**975**	3325	838	**1.76**	6.01	553	2.65	21.22	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**745**	2542	641	**1.46**	4.97	512	2.45	17.96	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**874**	2981	751	**1.76**	6.01	496	2.42	20.37	**EN12900 MBP**
-6.7 20	48.8 119.8	18.3 64.9	48.8 119.8	**948**	3235	815	**1.75**	5.97	541	2.62	23.30	**ARI540 MBP**
-10 14	45 113	32 89.6	45 113	**905**	3088	778	**1.82**	6.22	496	2.42	19.76	**opt MBP 1**
-25 -13	45 113	32 89.6	45 113	**399**	1363	343	**1.19**	4.07	335	1.68	8.63	**opt MBP 2**

Performance Tables

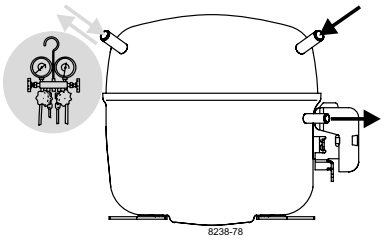
R134a, 230 V/60 Hz, CSCR, fan 3m/s

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]
-20	-4	**536**	1828	461	**1.39**	4.75	384	1.93	11.62
-15	5	**702**	2397	604	**1.60**	5.46	439	2.17	15.28
-10	14	**905**	3088	778	**1.82**	6.22	496	2.42	19.76
-5	23	**1148**	3917	987	**2.07**	7.08	554	2.66	25.19
0	32	**1437**	4902	1236	**2.36**	8.05	609	2.90	31.70
5	41	**1776**	6060	1527	**2.69**	9.17	661	3.13	39.45
10	50	**2171**	7408	1867	**3.08**	10.50	706	3.37	48.60

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

-20	-4	**432**	1475	372	**1.10**	3.76	393	1.83	10.34
-15	5	**572**	1953	492	**1.27**	4.35	450	2.14	13.74
-10	14	**745**	2542	641	**1.46**	4.97	512	2.45	17.96
-5	23	**955**	3257	821	**1.66**	5.65	577	2.75	23.14
0	32	**1207**	4117	1038	**1.88**	6.40	643	3.05	29.43
5	41	**1506**	5139	1295	**2.13**	7.26	708	3.35	37.00
10	50	**1858**	6341	1598	**2.41**	8.24	770	3.65	46.04



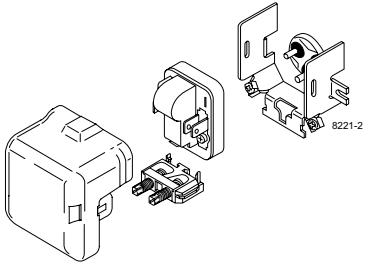
SC Compressors

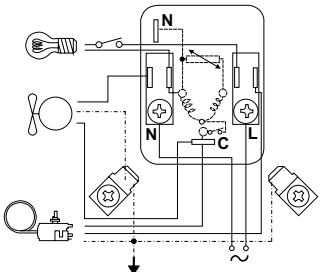
SECOP

Keep electrical equipment clear from oil, chemicals, and water

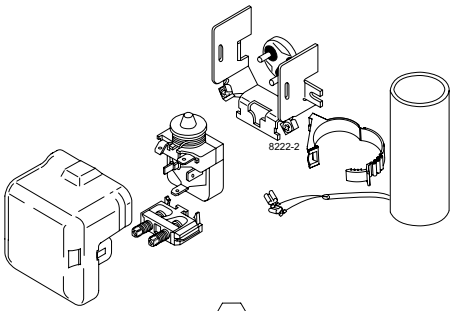
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

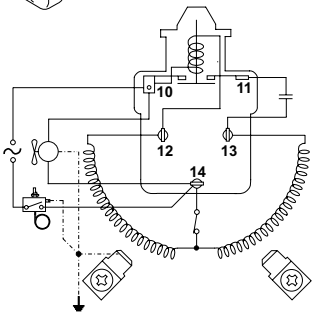
RSIR



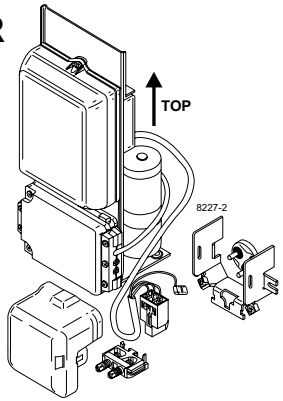


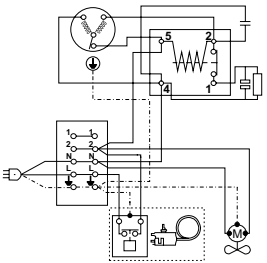
CSIR

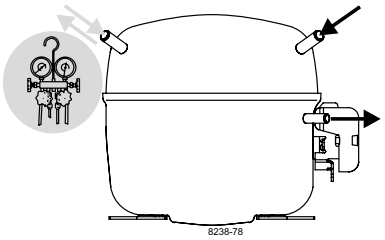




CSCR







SC Compressors

SECOP

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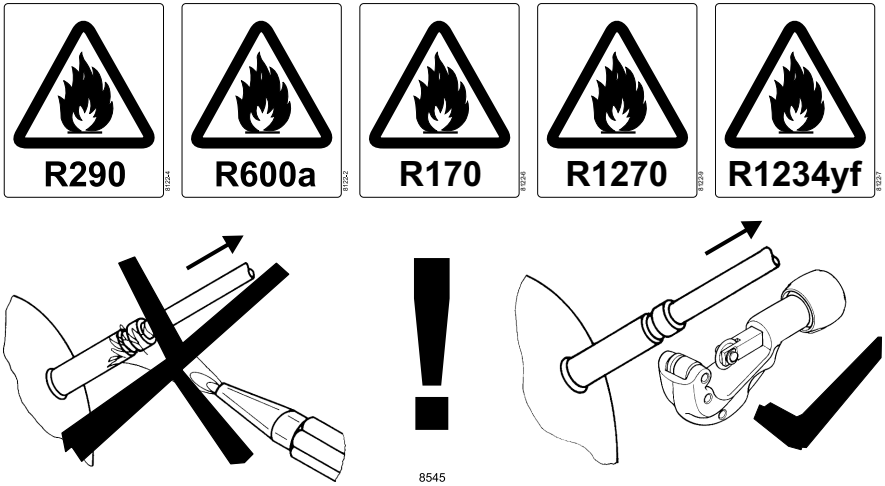
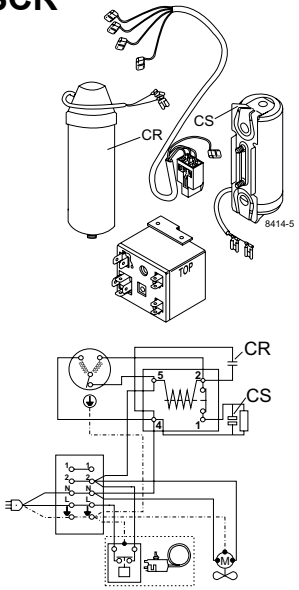
Service/Repair – R290, R600a, R170, R1270, R1234yf

(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**