Single
Packs

Single Pack SC10GHH 220-240V 50Hz CSCR

Single pack code number: **195B4776**

Position	Title	Code	Amount
1	Compressor SC10GHH	104G8071	1
2	SC starting device (550mm)	117-7025	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
SC10GHH

Sales code:
104G8071

Compressor Data

Refrigerant(s)	**R134a**
Refr. charge - tech. limit	**1300g / 45.86oz**
Weight	**12.50 kg / 27.56lbs**
Displacement	**10.29 cm3 / 0.63cu.in**
Compressors on pallet	**80**

General – Configurations With SC10GHH

–	**Conf. 1**
Motor configuration	CSCR
Power supply (nominal)	220-240 V/50 Hz
Number of phases	1
Voltage range	198-254 V
Approvals	VDE
Starting torque	HST
Refrigerant	R134a
Application	HBP
Hot gas defrost	OK
Long interval pull down	OK

Application Notes

- Compressor with oil cooler.
- Provision for PE Grounding is located at the PE Stamp on the compressor

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Compressor Design

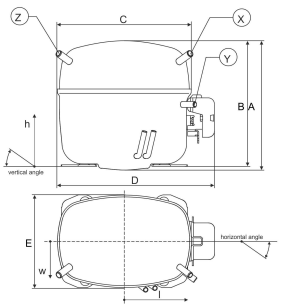
Oil type	**POE|OC**	Winding resistance main	**10.9 Ohm**
Oil viscosity	**22cSt**	Winding resistance aux	**37.3 Ohm**
Oil quantity	**449 / 15.18fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**1,460 cm3 / 49.37fl.oz**	Max. discharge temp.	**135°C / 275°F**
Motor protection	**internal**		

Compressor Dimensions

Housing

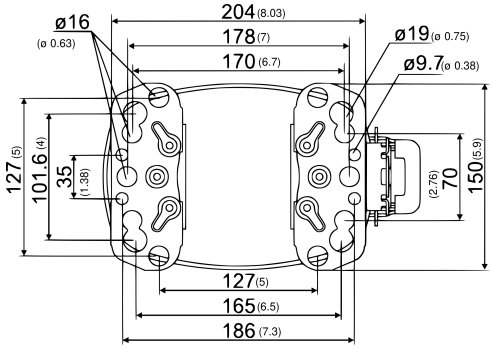
A Height	**209mm / 8.23in**
B Height	**203mm / 7.99in**
C Length shell	**218mm / 8.58in**
D Length w. cover	**255mm / 10.04in**
E Width	**151mm / 5.94in**

Find 3D Model here



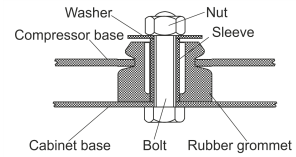
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 10.11–10.29 / 0.40–0.41in	øi 8.11–8.29 / 0.32–0.33in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	143°
Vertical angle ±2°	30°	0°	150°
Position l/h/w [mm]	107/183/55 / 4.21/7.20/2.17in	115/100/63 / 4.53/3.94/2.48in	-107/183/55 / -4.21/7.20/2.17in
Straight tube l. [mm]	12 / 0.47in	12 / 0.47in	12 / 0.47in

Mounting Accessories

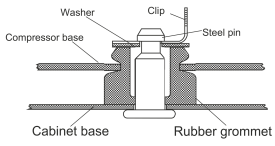


Dimensions in mm [in]

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
SC10GHH Configuration 1

Sales code:
104G8071

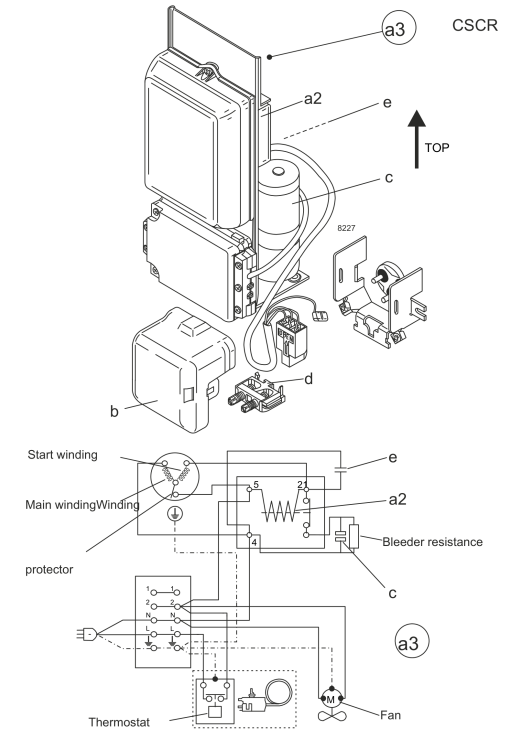
Configuration

Motor configuration	**CSCR**
Power supply (nominal)	**220-240 V/50 Hz 1~**
Refrigerant	**R134a**
Application	**HBP**
Voltage range	**198-254 V**
Starting torque	**HST**
Approvals	**VDE**
Starting device type	**relay**
Run capacitor	**5 µF**
Start capacitor	**40 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 - 43°C / 50 - 109°F
Machine room temp. compressor: 10 - 48°C / 50 - 118°F

System Cooling
oil cooled

Electrical Accessories / Wiring Diagram



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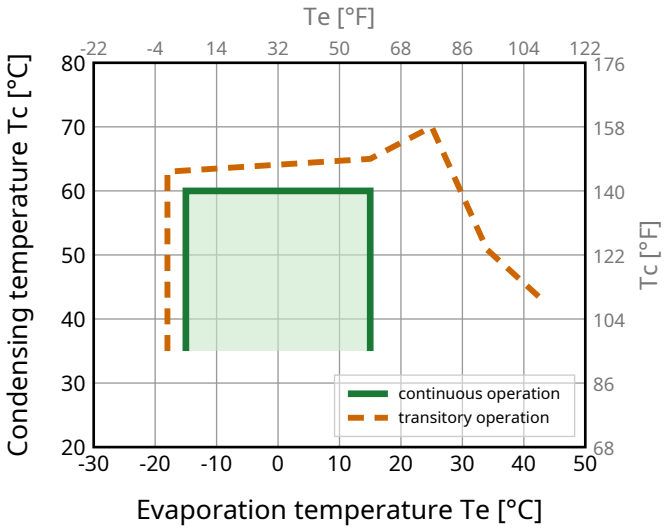
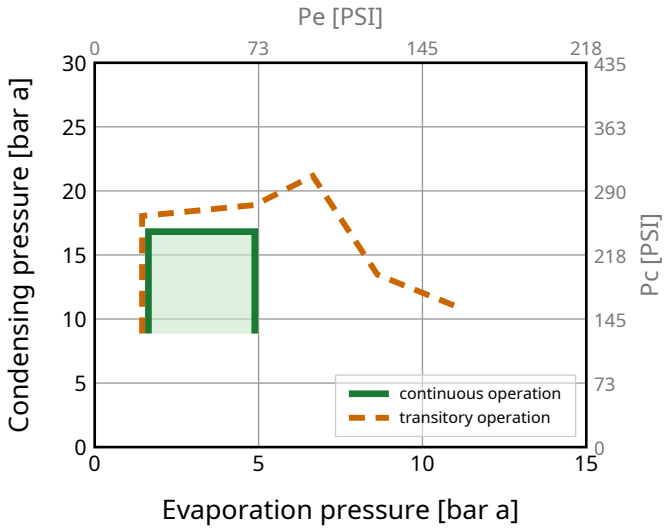
Components
a3 SC starter kit 117-7025
b plastic cover 103N2009
d cord relief 103N1004

Alternative components
a3 SC starter kit 117-7014

Operation Pressure Range





Model
SC10GHH Configuration 1

Sales code:
104G8071

Standard Conditions

R134a, 220 V/50 Hz, CSCR, oil cooled

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]	
7.2 45	54.4 129.9	35 95	46.1 115	**930**	3174	800	**2.62**	8.94	355	1.58	20.59	**ASHRAE HBP**
5 41	55 131	32 89.6	55 131	**762**	2600	655	**2.21**	7.53	345	1.53	18.72	**CECOMAF HBP**
5 41	50 122	20 68	50 122	**797**	2718	685	**2.41**	8.23	330	1.47	19.98	**EN12900 HBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**472**	1610	406	**1.69**	5.77	279	1.23	10.27	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**352**	1201	303	**1.35**	4.62	260	1.15	8.49	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**425**	1450	365	**1.68**	5.74	253	1.11	9.91	**EN12900 MBP**

Performance Tables

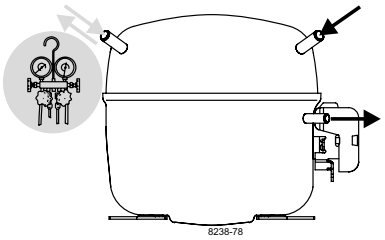
R134a, 220 V/50 Hz, CSCR, oil cooled

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]
-15	5	**328**	1119	282	**1.42**	4.85	231	1.03	7.14
-10	14	**440**	1501	378	**1.74**	5.94	253	1.11	9.61
-5	23	**574**	1958	494	**2.09**	7.14	274	1.20	12.59
0	32	**730**	2489	627	**2.48**	8.45	295	1.30	16.10
5	41	**907**	3095	780	**2.89**	9.85	314	1.39	20.14
10	50	**1106**	3774	951	**3.33**	11.37	332	1.48	24.76
15	59	**1327**	4528	1141	**3.81**	13.01	348	1.55	29.98

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

-15	5	**259**	884	223	**1.12**	3.84	230	1.03	6.22
-10	14	**352**	1201	303	**1.35**	4.62	260	1.15	8.49
-5	23	**467**	1593	402	**1.61**	5.50	290	1.27	11.32
0	32	**604**	2060	519	**1.90**	6.48	318	1.41	14.72
5	41	**762**	2600	655	**2.21**	7.53	345	1.53	18.72
10	50	**942**	3215	810	**2.54**	8.66	371	1.66	23.34
15	59	**1144**	3903	984	**2.90**	9.88	395	1.77	28.63



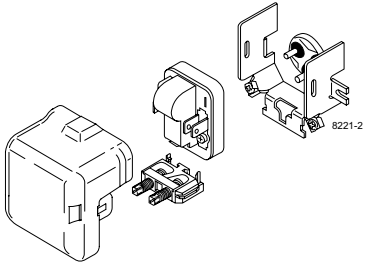
SC Compressors

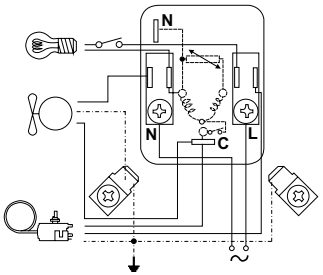
SECOP

Keep electrical equipment clear from oil, chemicals, and water

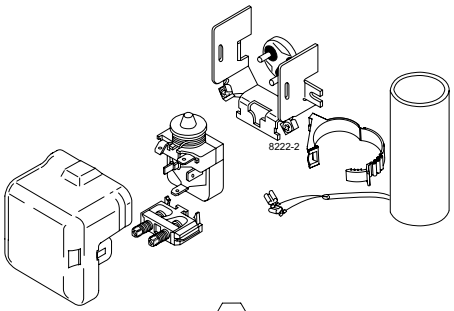
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

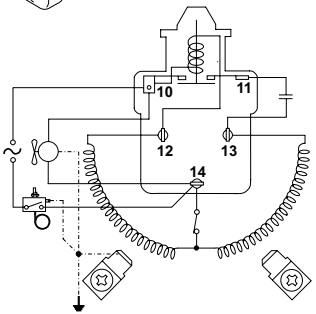
RSIR



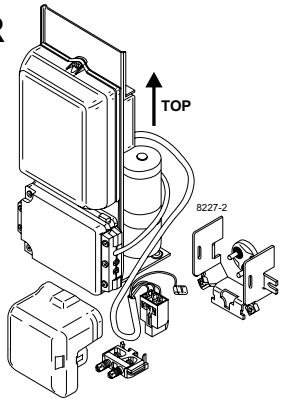


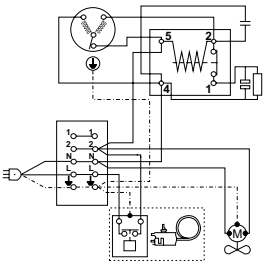
CSIR

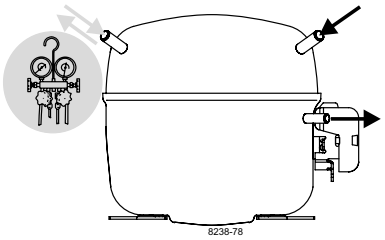




CSCR







SC Compressors

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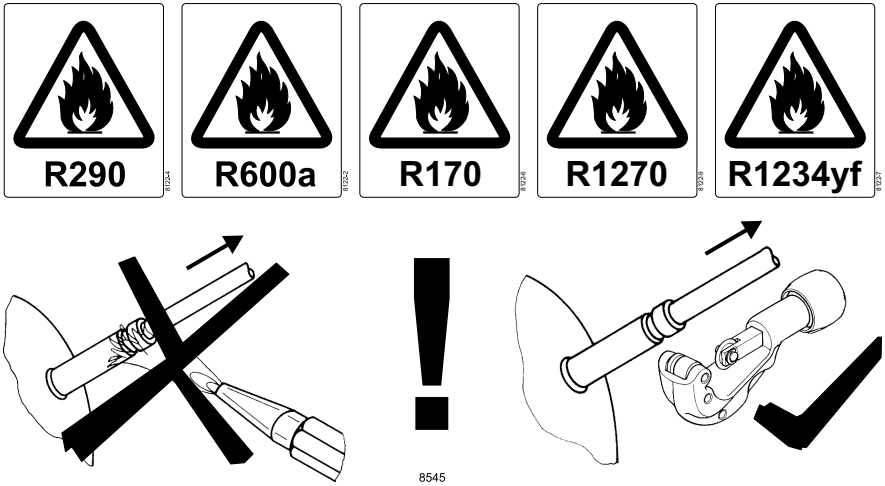
Service/Repair – R290, R600a, R170, R1270, R1234yf

(applies to all flammable refrigerants)



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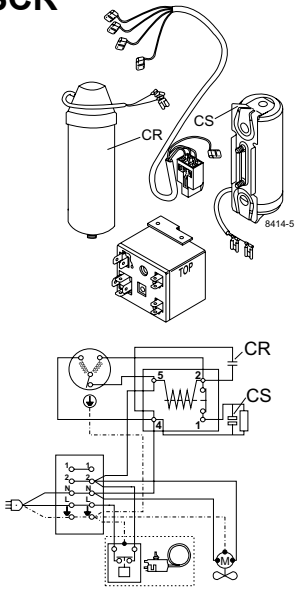

Dismantling, recycling, disposal: At the end of a compressor's lifecycle, proceed by separating and storing components according to their environmental impact. Parts that may cause pollution must be clearly identified and handled separately, ensuring appropriate disposal. Refrigerant gas must not be 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**