Single
Packs

Single Pack SC15GHH 220-240V 50Hz CSCR

Single pack code number: **195B4271**

Position	Title	Code	Amount
1	Compressor SC15GHH	104G8571	1
2	SC starting device (550mm)	117-7027	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
SC15GHH

Sales code:
104G8571

Compressor Data

Refrigerant(s)	**R134a**
Refr. charge - tech. limit	**1300g / 45.86oz**
Weight	**13.00 kg / 28.66lbs**
Displacement	**15.28 cm3 / 0.93cu.in**
Compressors on pallet	**80**

General – Configurations With SC15GHH

–	**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

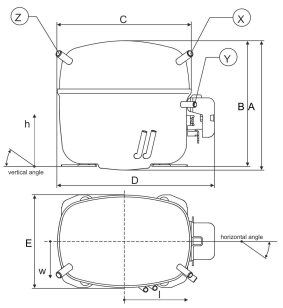
Oil type	**POE|OC**	Winding resistance main	**5.13 Ohm**
Oil viscosity	**22cSt**	Winding resistance aux	**13.51 Ohm**
Oil quantity	**449 / 15.18fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**1,540 cm3 / 52.07fl.oz**	Max. discharge temp.	**135°C / 275°F**
Motor protection	**internal**		

Compressor Dimensions

Housing

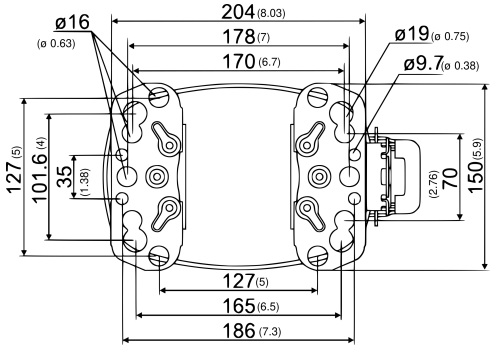
A Height	**209mm / 8.23in**
B Height	**203mm / 7.99in**
C Length shell	**218mm / 8.58in**
D Length w. cover	**255mm / 10.04in**
E Width	**151mm / 5.94in**

Find 3D Model here



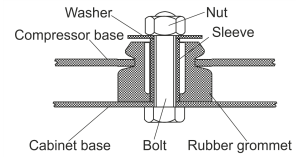
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 10.11–10.29 / 0.40–0.41in	øi 8.11–8.29 / 0.32–0.33in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	143°
Vertical angle ±2°	30°	0°	150°
Position l/h/w [mm]	107/183/55 / 4.21/7.20/2.17in	115/100/63 / 4.53/3.94/2.48in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

Mounting Accessories

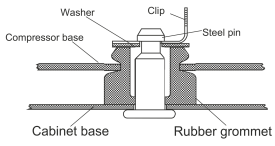


Dimensions in mm [in]

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
SC15GHH Configuration 1

Sales code:
104G8571

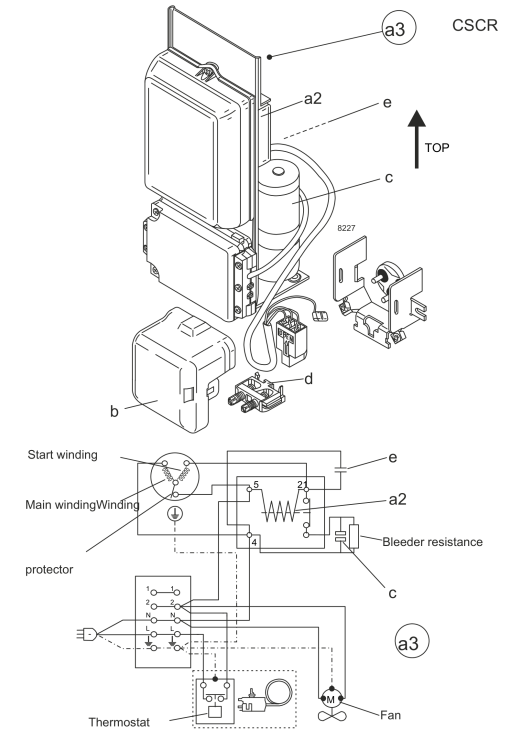
Configuration

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	**10 µF**
Start capacitor	**80 µF**
LRA (locked rotor amps / 4s/ U(N))	**16.2 A**
RLA (rated load amps / 1s/ U(N))	**3.1 A**
Cut in current (U(N))	**16.2 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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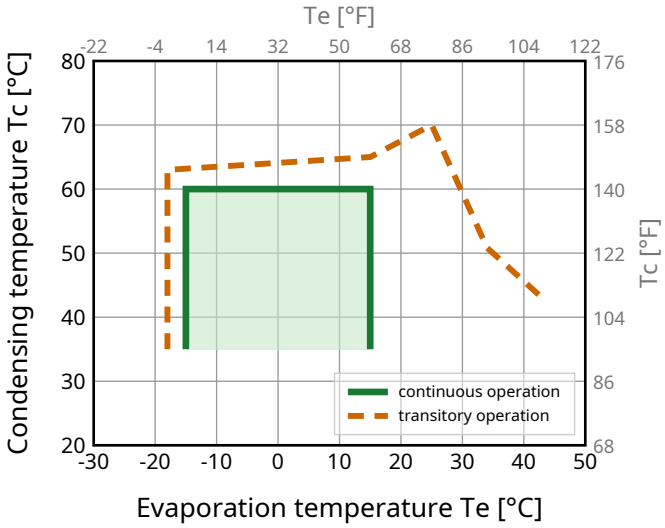
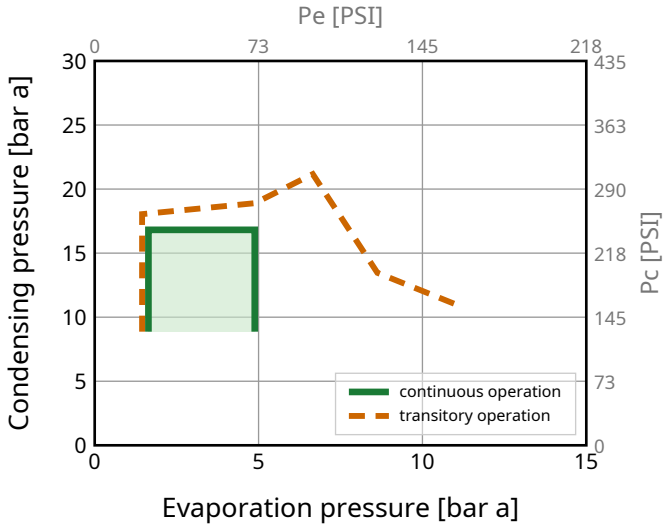
Components
a3 SC starter kit (550mm) 117-7027
b plastic cover 103N2009
d cord relief 103N1004

Operation Pressure Range





Model
SC15GHH Configuration 1

Sales code:
104G8571

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	**1472**	5023	1266	**2.56**	8.75	574	2.51	32.59	**ASHRAE HBP**
5 41	55 131	32 89.6	55 131	**1207**	4117	1038	**2.15**	7.35	560	2.45	29.64	**CECOMAF HBP**
5 41	50 122	20 68	50 122	**1263**	4308	1086	**2.41**	8.21	524	2.31	31.67	**EN12900 HBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**767**	2617	660	**1.74**	5.93	441	1.95	16.70	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**576**	1965	495	**1.41**	4.81	408	1.81	13.89	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**684**	2336	589	**1.79**	6.11	382	1.70	15.96	**EN12900 MBP**

Performance Tables

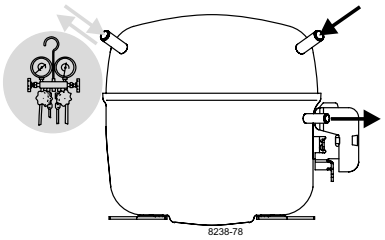
R134a, 220 V/50 Hz, CSCR, oil cooled

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	**539**	1839	464	**1.57**	5.36	343	1.53	11.73
-10	14	**709**	2419	610	**1.85**	6.33	382	1.70	15.48
-5	23	**910**	3106	783	**2.16**	7.37	421	1.87	19.97
0	32	**1148**	3918	988	**2.52**	8.58	456	2.02	25.34
5	41	**1429**	4875	1229	**2.95**	10.06	485	2.14	31.73
10	50	**1757**	5994	1511	**3.50**	11.93	502	2.21	39.32
15	59	**2138**	7296	1839	**4.22**	14.42	506	2.23	48.31

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

-15	5	**420**	1433	361	**1.17**	4.00	359	1.59	10.08
-10	14	**576**	1965	495	**1.41**	4.81	408	1.81	13.89
-5	23	**755**	2577	650	**1.64**	5.60	461	2.03	18.31
0	32	**964**	3288	829	**1.88**	6.42	512	2.25	23.50
5	41	**1207**	4117	1038	**2.15**	7.35	560	2.45	29.64
10	50	**1490**	5083	1281	**2.48**	8.48	600	2.62	36.91
15	59	**1818**	6203	1563	**2.89**	9.87	629	2.74	45.50



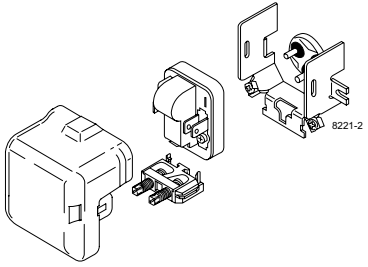
SC Compressors

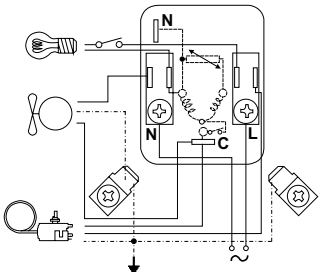
SECOP

Keep electrical equipment clear from oil, chemicals, and water

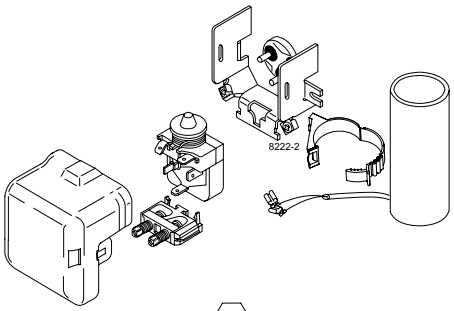
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

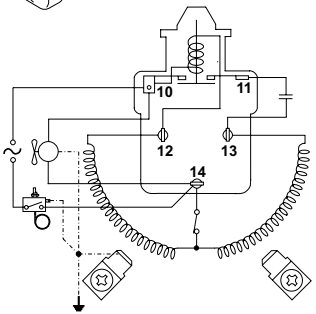
RSIR



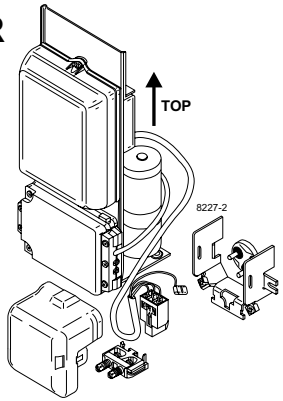


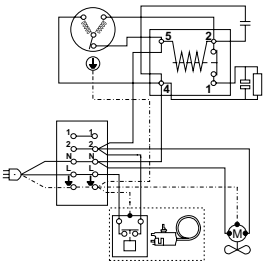
CSIR

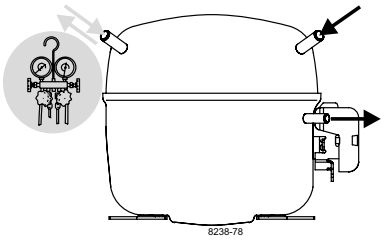




CSCR







SC Compressors

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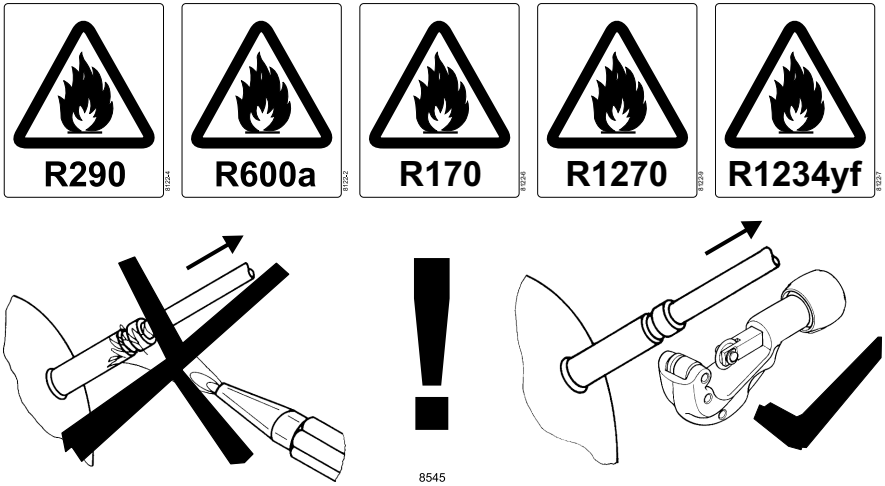
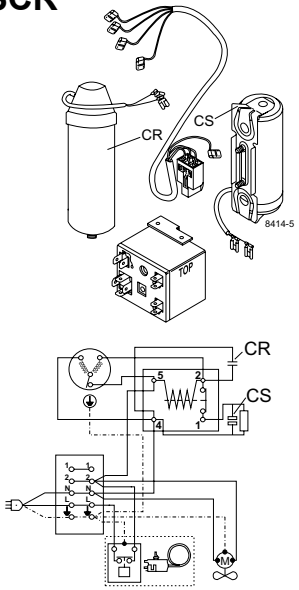
Service/Repair – R290, R600a, R170, R1270, R1234yf

(applies to all flammable refrigerants)



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**