Single
Packs

Single Pack SC18GH 220-240V 50Hz CSIR

Single pack code number: **195B4407**

Position	Title	Code	Amount
1	Compressor SC18GH	104G8860	1
2	Starting relay	117U6019	1
3	Starting capacitor (80µF 220V, 6.3mm)	117U5017	1
4	Cord relief	103N1004	1
5	Cover	103N2009	1
6	Bolt joint for one compressor | M6 | ø16mm	118-1917	1

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Model
SC18GH

Sales code:
104G8860

Compressor Data

Refrigerant(s)	**R134a**
Refr. charge - tech. limit	**1300g / 45.86oz**
Weight	**13.50 kg / 29.76lbs**
Displacement	**17.69 cm3 / 1.08cu.in**
Compressors on pallet	**80**

General – Configurations With SC18GH

–	**Conf. 1**
Motor configuration	CSIR
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

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

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SC18GH

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104G8860

Compressor Design

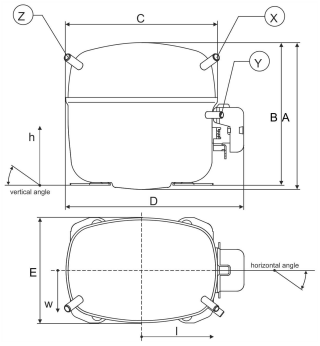
Oil type	**POE**	Winding resistance main	**3.7 Ohm**
Oil viscosity	**22cSt**	Winding resistance aux	**14 Ohm**
Oil quantity	**500 / 16.91fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**1,460 cm3 / 49.37fl.oz**	Max. discharge temp.	**135°C / 275°F**
Motor protection	**internal**		

Compressor Dimensions

Housing

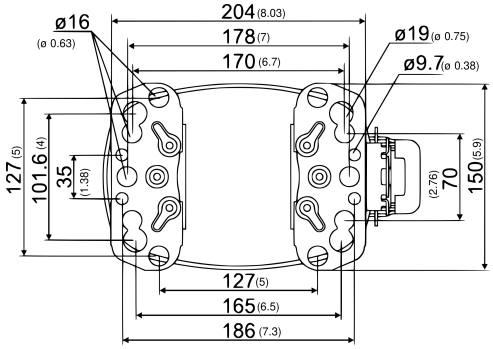
A Height	**219mm / 8.62in**
B Height	**213mm / 8.39in**
C Length shell	**218mm / 8.58in**
D Length w. cover	**255mm / 10.04in**
E Width	**151mm / 5.94in**

Find 3D Model here



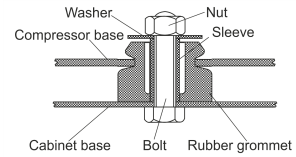
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 10.11–10.29 / 0.40–0.41in	øi 8.11–8.29 / 0.32–0.33in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	143°
Vertical angle ±2°	30°	0°	150°
Position l/h/w [mm]	107/193/55 / 4.21/7.60/2.17in	115/110/63 / 4.53/4.33/2.48in	-107/193/55 / -4.21/7.60/2.17in
Straight tube l. [mm]	12 / 0.47in	12 / 0.47in	12 / 0.47in

Mounting Accessories

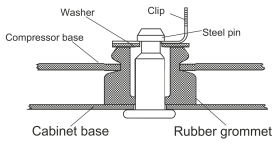


Dimensions in mm [in]

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
SC18GH Configuration 1

Sales code:
104G8860

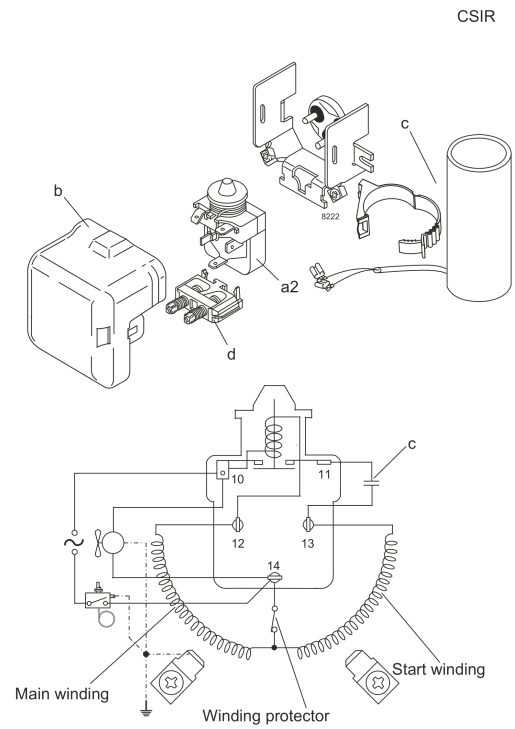
Configuration

Motor configuration	**CSIR**
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	**-/-**
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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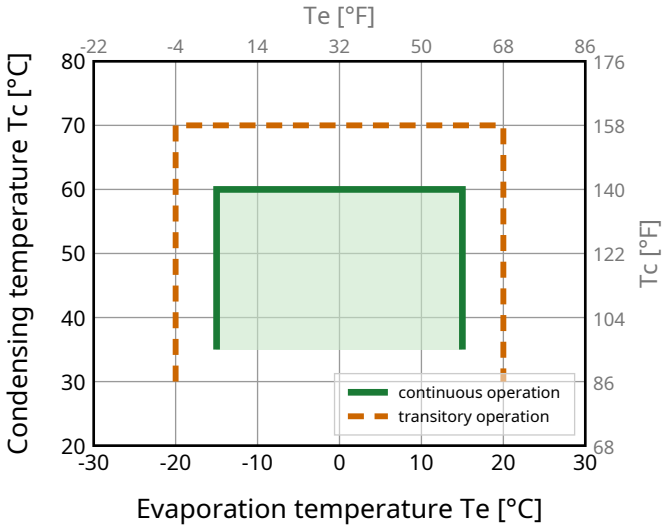
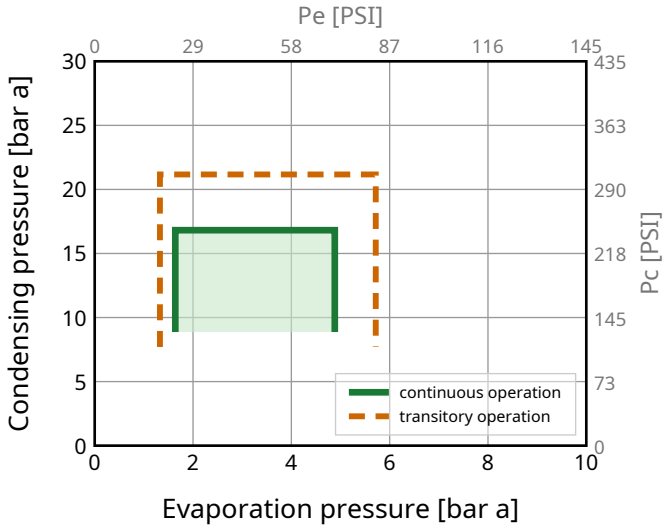
Components
a2 relay 117U6019
c start capacitor (80µF) 117U5017
d cord relief 103N1004
b plastic cover 103N2009

Operation Pressure Range





Model
SC18GH Configuration 1

Sales code:
104G8860

Standard Conditions

R134a, 220 V/50 Hz, CSIR, 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]	
7.2 45	54.4 129.9	35 95	46.1 115	**1630**	5562	1402	**2.27**	7.74	719	3.95	36.08	**ASHRAE HBP**
5 41	55 131	32 89.6	55 131	**1340**	4572	1152	**1.92**	6.56	697	3.85	32.92	**CECOMAF HBP**
5 41	50 122	20 68	50 122	**1399**	4774	1203	**2.12**	7.23	660	3.72	35.09	**EN12900 HBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**874**	2983	752	**1.61**	5.51	542	3.27	19.04	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**676**	2305	581	**1.36**	4.63	498	3.13	16.29	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**773**	2638	665	**1.65**	5.62	470	3.04	18.03	**EN12900 MBP**

Performance Tables

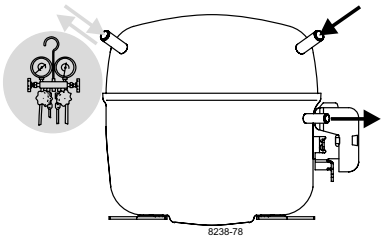
R134a, 220 V/50 Hz, CSIR, fan 3m/s

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]
-15	5	**624**	2129	537	**1.52**	5.18	411	2.87	13.58
-10	14	**801**	2732	689	**1.71**	5.82	470	3.04	17.49
-5	23	**1020**	3480	877	**1.94**	6.63	525	3.22	22.38
0	32	**1281**	4370	1101	**2.22**	7.57	577	3.40	28.26
5	41	**1583**	5401	1361	**2.53**	8.62	627	3.60	35.16
10	50	**1926**	6571	1656	**2.86**	9.74	674	3.79	43.11
15	59	**2309**	7879	1986	**3.21**	10.94	720	4.00	52.17

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

-15	5	**539**	1839	464	**1.27**	4.33	425	2.90	12.94
-10	14	**676**	2305	581	**1.36**	4.63	498	3.13	16.29
-5	23	**855**	2917	735	**1.51**	5.14	567	3.36	20.72
0	32	**1077**	3674	926	**1.70**	5.80	634	3.60	26.25
5	41	**1340**	4572	1152	**1.92**	6.56	697	3.85	32.92
10	50	**1645**	5612	1414	**2.17**	7.40	758	4.11	40.75
15	59	**1990**	6790	1711	**2.44**	8.31	817	4.38	49.81



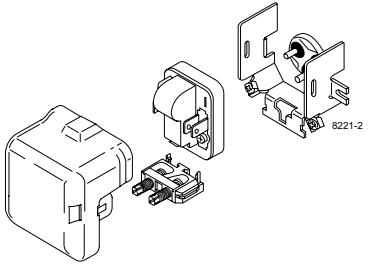
SC Compressors

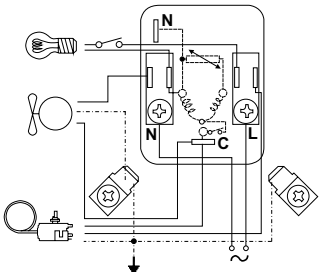
SECOP

Keep electrical equipment clear from oil, chemicals, and water

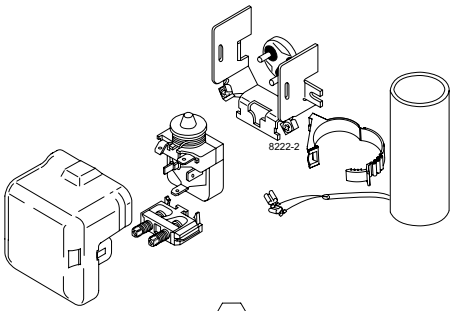
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

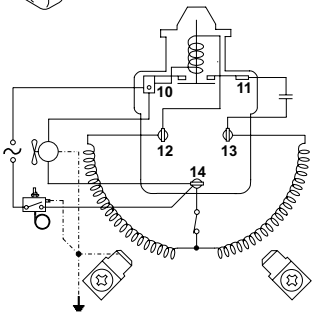
RSIR



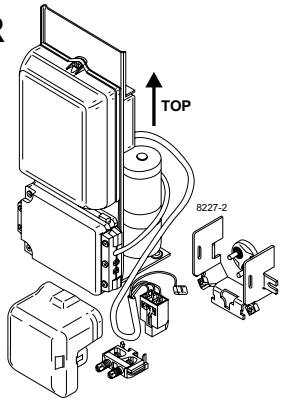


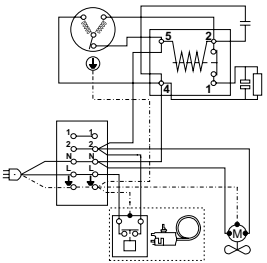
CSIR

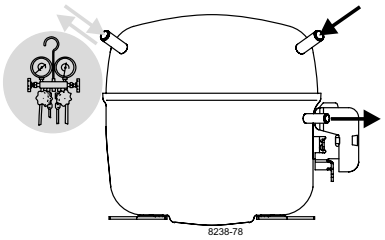




CSCR







SC Compressors

SECOP

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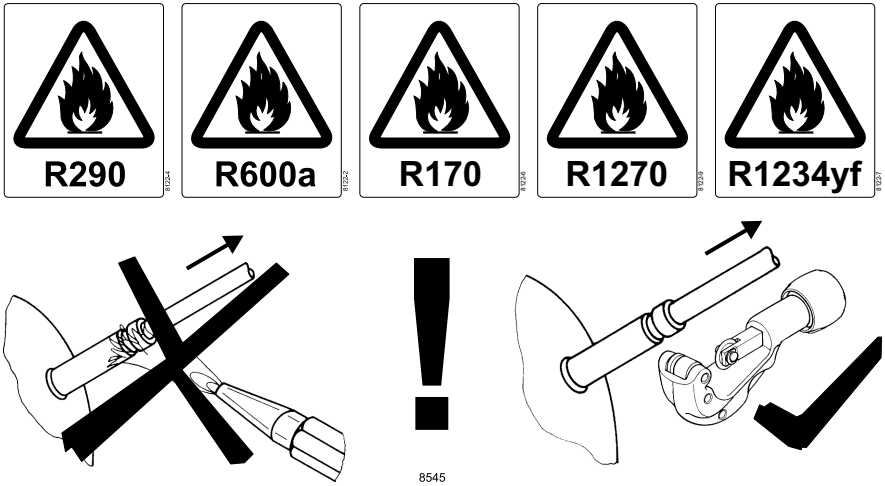
Service/Repair – R290, R600a, R170, R1270, R1234yf

(applies to all flammable refrigerants)



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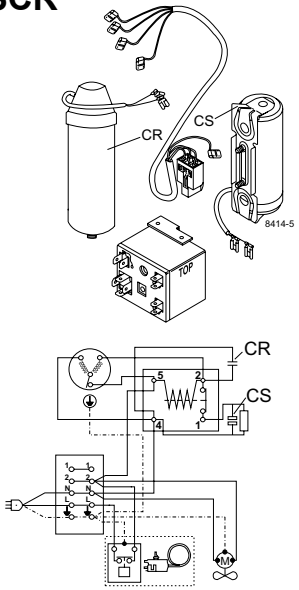

Dismantling, recycling, disposal: At the end of a compressor's lifecycle, proceed by separating and storing components according to their environmental impact. Parts that may cause pollution must be clearly identified and handled separately, ensuring appropriate disposal. Refrigerant gas must not be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