Single
Packs

Single Pack SC15G 208-230V 60Hz CSIR

Single pack code number: **195B4488**

Position	Title	Code	Amount
1	Compressor SC15G	104G8526	1
2	Starting relay	117U6011	1
3	Starting capacitor (80µF 220V, 6.3mm)	117U5017	1
4	Cord relief	103N1004	1
5	Cover	103N2008	1
6	Bolt joint for one compressor | M6 | ø16mm	118-1917	1

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Model
SC15G

Sales code:
104G8526

Compressor Data

Refrigerant(s)	**R134a**
Refr. charge - tech. limit	**1300g / 45.86oz**
Weight	**13.20 kg / 29.10lbs**
Displacement	**15.28 cm3 / 0.93cu.in**
Compressors on pallet	**80**

General – Configurations With SC15G

–	**Conf. 1**
Motor configuration	CSIR
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	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
- LRA value on compressor label and datasheet may differ due to different test conditions for UL approval.

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SC15G

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Compressor Design

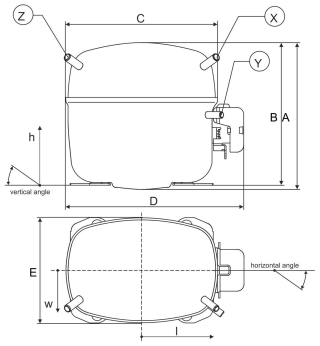
Oil type	**POE**	Winding resistance main	**4.4 Ohm**
Oil viscosity	**22cSt**	Winding resistance aux	**14 Ohm**
Oil quantity	**500 / 16.91fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**1,410 cm3 / 47.68fl.oz**	Max. discharge temp.	**135°C / 275°F**
Motor protection	**internal**		

Compressor Dimensions

Housing

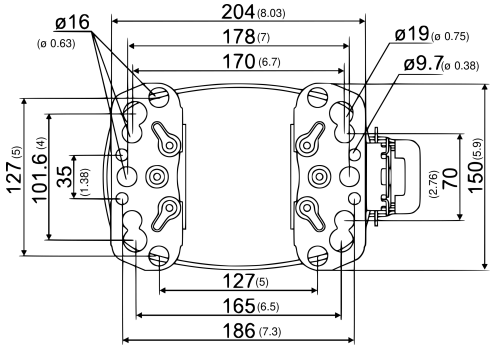
A Height	**209mm / 8.23in**
B Height	**203mm / 7.99in**
C Length shell	**218mm / 8.58in**
D Length w. cover	**255mm / 10.04in**
E Width	**151mm / 5.94in**

Find 3D Model here



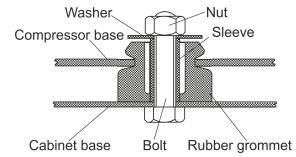
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 10.11–10.29 / 0.40–0.41in	øi 6.41–6.59 / 0.25–0.26in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	143°
Vertical angle ±2°	30°	0°	150°
Position l/h/w [mm]	107/183/55 / 4.21/7.20/2.17in	115/100/63 / 4.53/3.94/2.48in	-107/183/55 / -4.21/7.20/2.17in
Straight tube l. [mm]	12 / 0.47in	12 / 0.47in	12 / 0.47in

Mounting Accessories

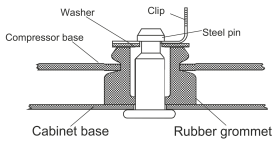


Dimensions in mm [in]

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
SC15G Configuration 1

Sales code:
104G8526

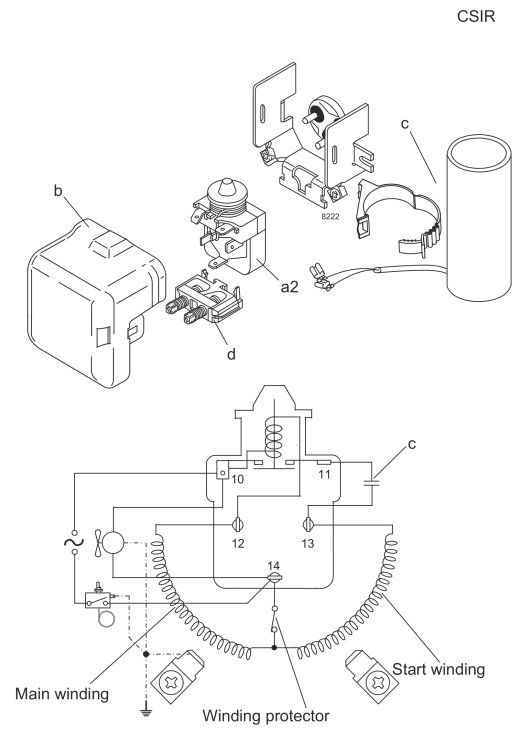
Configuration

Motor configuration	**CSIR**
Power supply (nominal)	**208-230 V/60 Hz 1~**
Refrigerant	**R134a**
Application	**MBP**
Voltage range	**187-254 V**
Starting torque	**HST**
Approvals	**VDE, UL, KC**
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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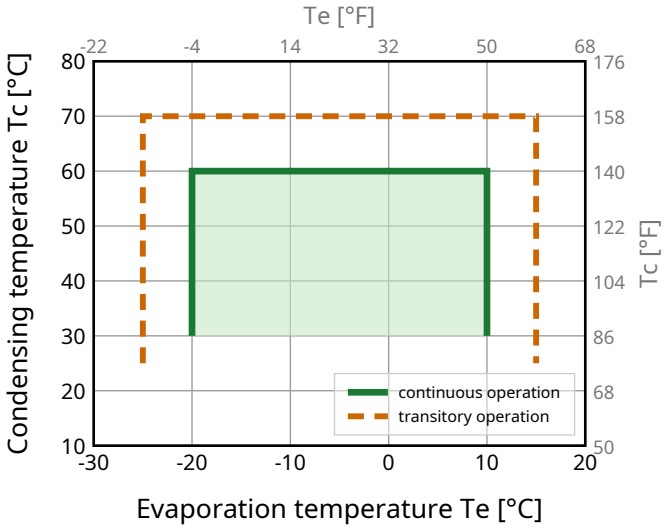
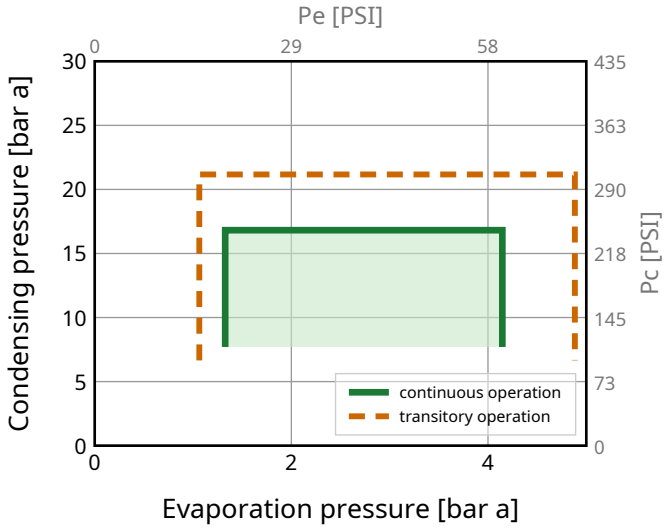
Components
a2 relay 117U6011
c start capacitor (80µF) 117U5017
d cord relief 103N1004
b plastic cover 103N2008

Operation Pressure Range





Model
SC15G Configuration 1

Sales code:
104G8526

Standard Conditions

R134a, 230 V/60 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]	
-6.7 20	54.4 129.9	35 95	46.1 115	**849**	2897	730	**1.66**	5.68	510	3.05	18.49	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**642**	2189	552	**1.36**	4.66	470	2.92	15.47	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**743**	2535	639	**1.70**	5.79	438	2.79	17.33	**EN12900 MBP**
-6.7 20	48.8 119.8	18.3 64.9	48.8 119.8	**820**	2796	705	**1.68**	5.72	489	2.96	20.14	**ARI540 MBP**
-10 14	45 113	32 89.6	45 113	**770**	2626	662	**1.76**	6.00	438	2.79	16.81	**opt MBP 1**
-25 -13	45 113	32 89.6	45 113	**272**	928	234	**1.11**	3.79	245	2.29	5.88	**opt MBP 2**

Performance Tables

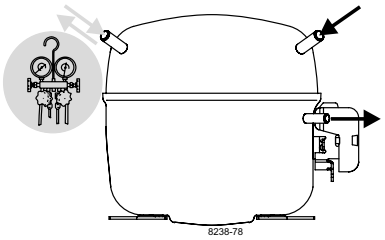
R134a, 230 V/60 Hz, CSIR, fan 3m/s

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]
-20	-4	**419**	1429	360	**1.34**	4.57	313	2.45	9.08
-15	5	**583**	1989	501	**1.55**	5.27	377	2.61	12.68
-10	14	**770**	2626	662	**1.76**	6.00	438	2.79	16.81
-5	23	**984**	3356	846	**1.99**	6.79	494	2.97	21.58
0	32	**1229**	4195	1057	**2.25**	7.67	547	3.15	27.12
5	41	**1512**	5159	1300	**2.54**	8.67	595	3.35	33.58
10	50	**1836**	6265	1579	**2.88**	9.81	638	3.55	41.10

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

-20	-4	**308**	1049	264	**0.95**	3.25	323	2.51	7.36
-15	5	**468**	1596	402	**1.17**	4.00	400	2.71	11.23
-10	14	**642**	2189	552	**1.36**	4.66	470	2.92	15.47
-5	23	**834**	2844	717	**1.56**	5.33	534	3.13	20.20
0	32	**1049**	3578	902	**1.77**	6.05	591	3.35	25.57
5	41	**1292**	4408	1111	**2.01**	6.87	642	3.58	31.73
10	50	**1568**	5348	1348	**2.29**	7.80	686	3.82	38.83



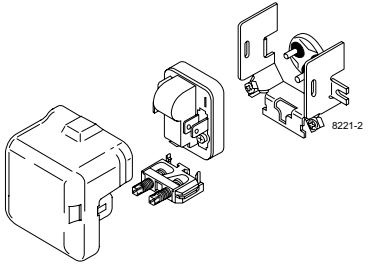
SC Compressors

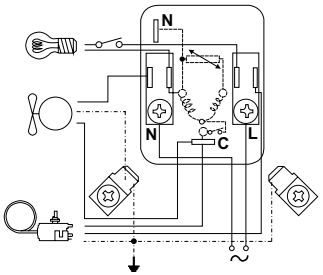
SECOP

Keep electrical equipment clear from oil, chemicals, and water

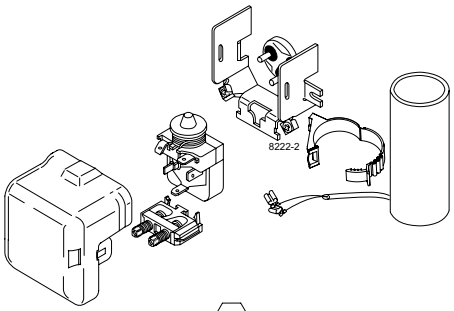
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

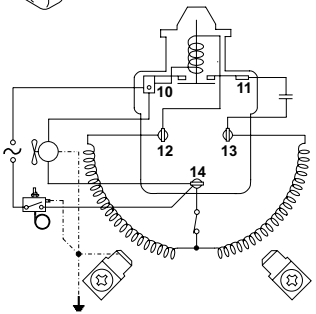
RSIR



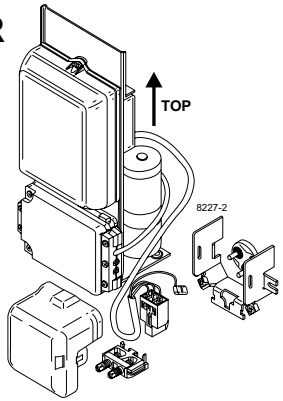


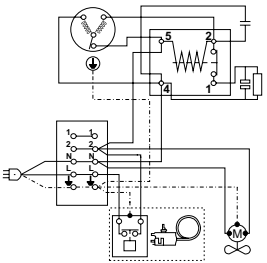
CSIR

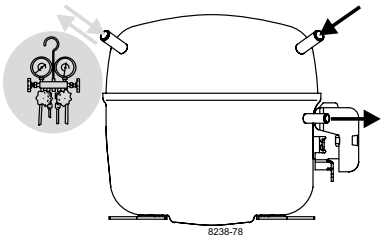




CSCR







SC Compressors

SECOP

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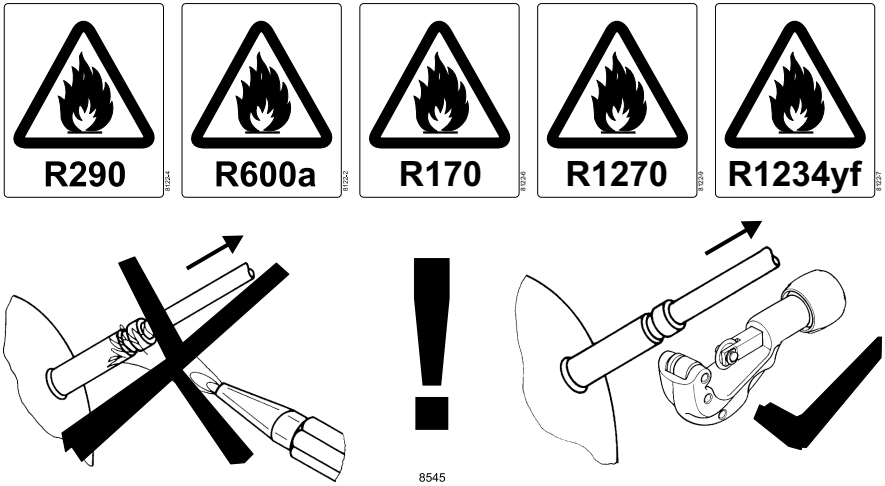
Service/Repair – R290, R600a, R170, R1270, R1234yf

(applies to all flammable refrigerants)



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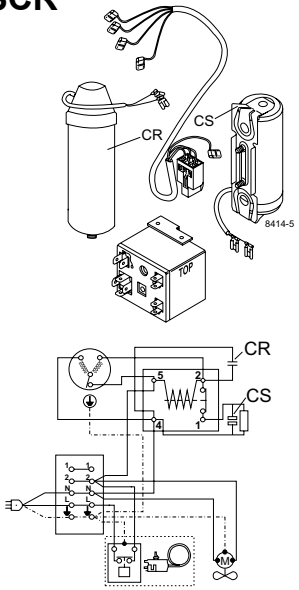

Dismantling, recycling, disposal: At the end of a compressor's lifecycle, proceed by separating and storing components according to their environmental impact. Parts that may cause pollution must be clearly identified and handled separately, ensuring appropriate disposal. Refrigerant gas must not be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