Single
Packs

Single Pack SC15F 220-240V 50Hz CSIR

Single pack code number: **195B4110**

Position	Title	Code	Amount
1	Compressor SC15F	104G8500	1
2	Starting relay	117U6003	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
SC15F

Sales code:
104G8500

Compressor Data

Refrigerant(s)	**R134a**
Refr. charge - tech. limit	**1300g / 45.86oz**
Weight	**12.60 kg / 27.78lbs**
Displacement	**15.28 cm3 / 0.93cu.in**
Compressors on pallet	**80**

General – Configurations With SC15F

–	**Conf. 1**	**Conf. 2**
Motor configuration	CSIR	RSIR
Power supply (nominal)	220-240 V/50 Hz	220-240 V/50 Hz
Number of phases	1	1
Voltage range	198-254 V	198-254 V
Approvals	VDE, EAC	VDE, EAC
Starting torque	HST	LST
Refrigerant	R134a	R134a
Application	LBP+MBP	LBP+MBP
Hot gas defrost	OK	OK
Long interval pull down	OK	OK

Application Notes

- Provision for PE Grounding is located at the PE Stamp on the compressor
- Can be used as a HBP compressor with 240 V 50 Hz mains (216-254 V).

Model
SC15F

Sales code:
104G8500

Compressor Design

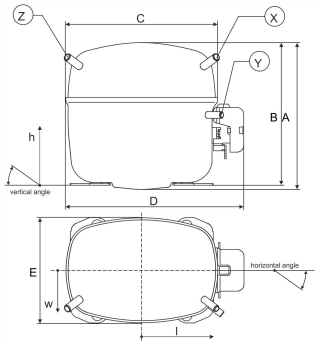
Oil type	**POE**	Winding resistance main	**6.9 Ohm**
Oil viscosity	**22cSt**	Winding resistance aux	**11 Ohm**
Oil quantity	**550 / 18.60fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**1,410 cm3 / 47.68fl.oz**	Max. discharge temp.	**135°C / 275°F**
Motor protection	**internal**		

Compressor Dimensions

Housing

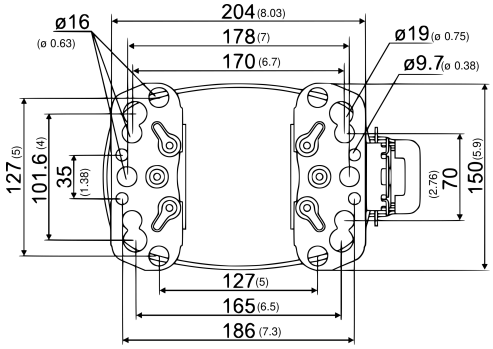
A Height	**209mm / 8.23in**
B Height	**203mm / 7.99in**
C Length shell	**218mm / 8.58in**
D Length w. cover	**255mm / 10.04in**
E Width	**151mm / 5.94in**

Find 3D Model here



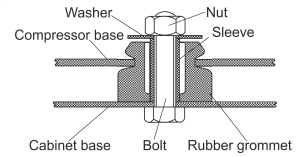
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.11–6.29 / 0.24–0.25in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	143°
Vertical angle ±2°	30°	0°	150°
Position l/h/w [mm]	107/183/55 / 4.21/7.20/2.17in	115/100/63 / 4.53/3.94/2.48in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

Mounting Accessories

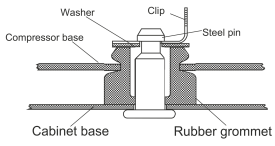


Dimensions in mm [in]

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
SC15F Configuration 1

Sales code:
104G8500

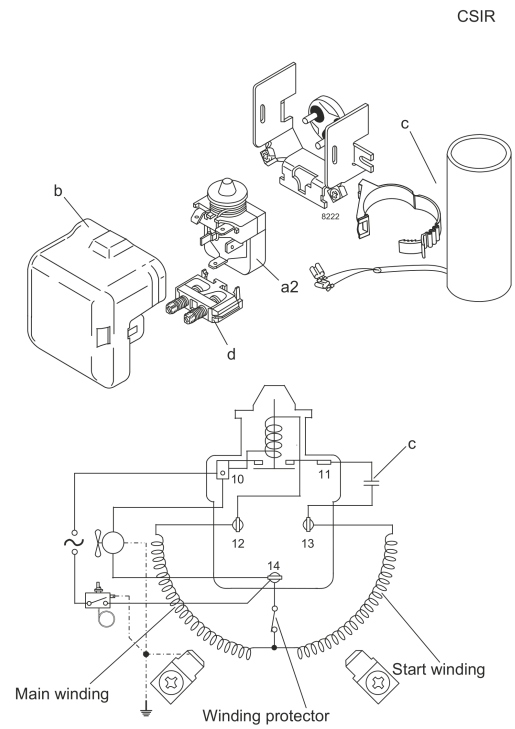
Configuration

Motor configuration	**CSIR**
Power supply (nominal)	**220-240 V/50 Hz 1~**
Refrigerant	**R134a**
Application	**LBP+MBP**
Voltage range	**198-254 V**
Starting torque	**HST**
Approvals	**VDE, EAC**
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 - 38°C / 50 - 100°F
Machine room temp. compressor: 10 - 43°C / 50 - 109°F

System Cooling
fan 1,5m/s

Electrical Accessories / Wiring Diagram



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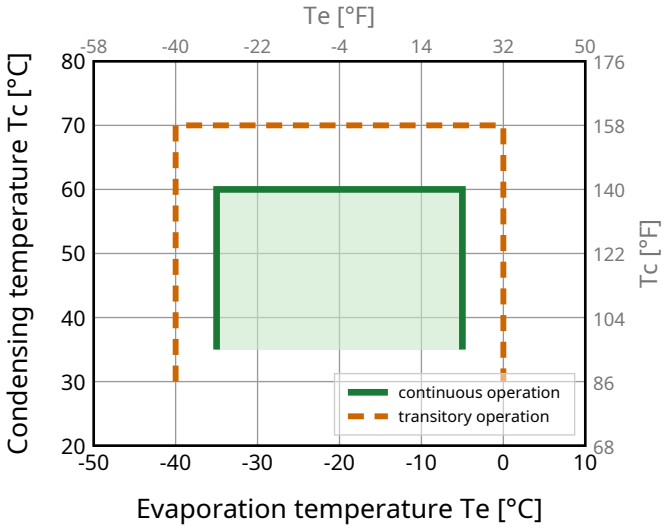
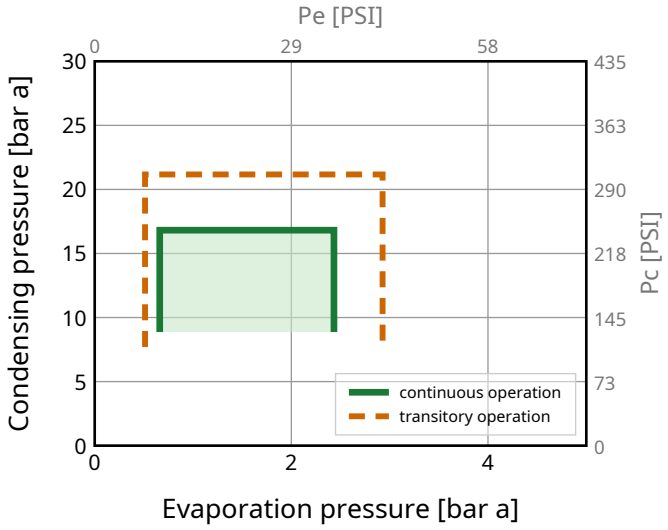
Components
a2 assy. relay 117U6003
c start capacitor (80µF) 117U5017
d cord relief 103N1004
b plastic cover 103N2009

Operation Pressure Range





Model
SC15F Configuration 1

Sales code:
104G8500

Standard Conditions

R134a, 220 V/50 Hz, CSIR, fan 1,5m/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]	
-23.3 -10	54.4 129.9	32.2 90	32.2 90	**324**	1104	278	**1.10**	3.77	293	1.99	6.28	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**230**	784	198	**0.84**	2.85	275	1.93	5.48	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**161**	550	139	**0.78**	2.67	206	1.72	3.53	**EN12900 LBP**
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	**283**	966	243	**0.95**	3.25	297	1.99	7.43	**ARI540 LBP**
-23.3 -10	40.6 105.1	32.2 90	32.2 90	**393**	1340	338	**1.35**	4.60	291	2.00	7.62	**AHAM LBP**
-35 -31	45 113	32 89.6	45 113	**147**	502	126	**0.72**	2.46	204	1.70	3.17	**opt LBP**

Performance Tables

R134a, 220 V/50 Hz, CSIR, fan 1,5m/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]
-35	-31	**147**	502	126	**0.72**	2.46	204	1.70	3.17
-30	-22	**214**	732	184	**0.89**	3.04	241	1.81	4.63
-25	-13	**302**	1030	260	**1.07**	3.66	281	1.95	6.53
-20	-4	**409**	1396	352	**1.26**	4.31	324	2.10	8.87
-15	5	**536**	1830	461	**1.45**	4.94	370	2.24	11.66
-10	14	**683**	2330	587	**1.63**	5.56	419	2.36	14.91
-5	23	**849**	2897	730	**1.81**	6.16	470	2.42	18.63

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

-35	-31	**100**	341	86	**0.54**	1.84	186	1.67	2.38
-30	-22	**155**	529	133	**0.68**	2.31	229	1.78	3.69
-25	-13	**230**	784	198	**0.84**	2.85	275	1.93	5.48
-20	-4	**325**	1108	279	**1.00**	3.42	324	2.11	7.76
-15	5	**439**	1498	378	**1.17**	3.97	377	2.28	10.54
-10	14	**573**	1955	493	**1.33**	4.52	432	2.44	13.81
-5	23	**726**	2479	625	**1.48**	5.06	490	2.56	17.61

Model
SC15F Configuration 2

Sales code:
104G8500

Configuration

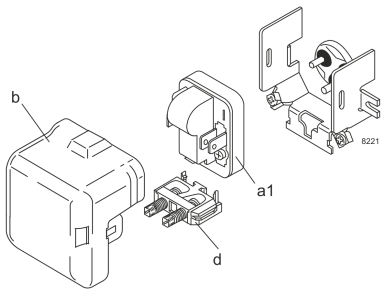
Motor configuration	**RSIR**
Power supply (nominal)	**220-240 V/50 Hz 1~**
Refrigerant	**R134a**
Application	**LBP+MBP**
Voltage range	**198-254 V**
Starting torque	**LST**
Approvals	**VDE, EAC**
Starting device type	**PTC**
Run capacitor	**-/-**
Start capacitor	**-/-**
RLA (rated load amps / 1s/ U(N))	**-/-A**

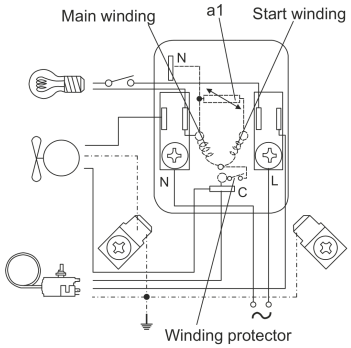
Ambient/ machine room temperatures minimum /maximum
Ambient temperature range: 10 - 38°C / 50 - 100°F
Machine room temp. compressor: 10 - 43°C / 50 - 109°F

System Cooling
fan 1,5m/s

Electrical Accessories / Wiring Diagram

RSIR





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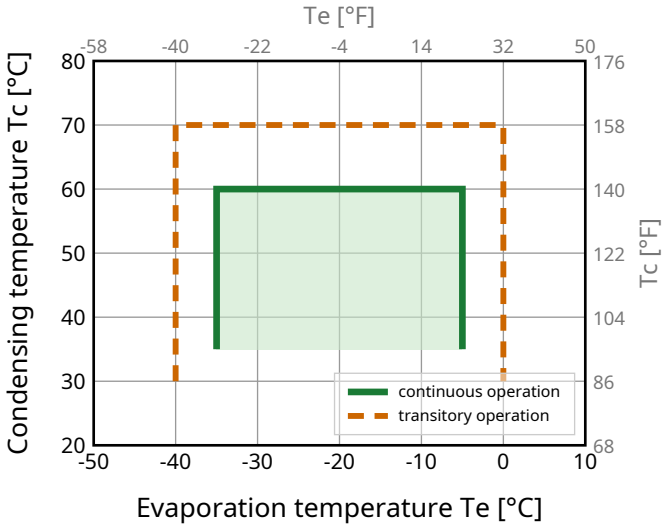
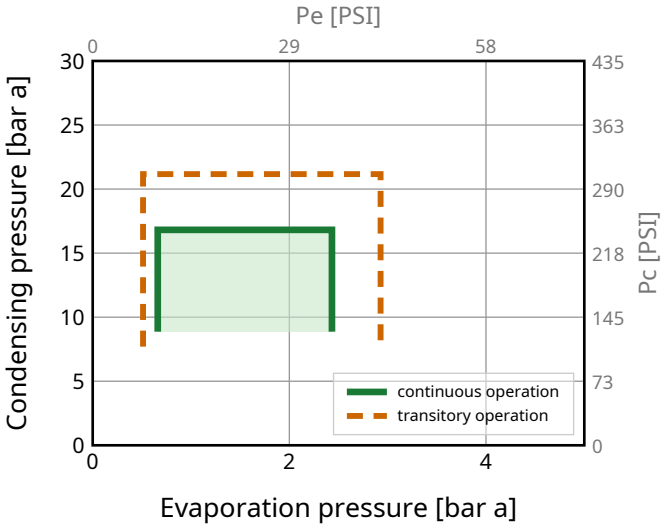
Components
a1 PTC starter (220V, 25Ohm, 6.3mm) 103N0011
d cord relief 103N1004
b plastic cover 103N2009

Operation Pressure Range





Model
SC15F Configuration 2

Sales code:
104G8500

Standard Conditions

R134a, 220 V/50 Hz, RSIR, fan 1,5m/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]	
-23.3 -10	54.4 129.9	32.2 90	32.2 90	**324**	1104	278	**1.10**	3.77	293	1.99	6.28	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**230**	784	198	**0.84**	2.85	275	1.93	5.48	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**161**	550	139	**0.78**	2.67	206	1.72	3.53	**EN12900 LBP**
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	**283**	966	243	**0.95**	3.25	297	1.99	7.43	**ARI540 LBP**
-23.3 -10	40.6 105.1	32.2 90	32.2 90	**393**	1340	338	**1.35**	4.60	291	2.00	7.62	**AHAM LBP**
-35 -31	45 113	32 89.6	45 113	**147**	502	126	**0.72**	2.46	204	1.70	3.17	**opt LBP**

Performance Tables

R134a, 220 V/50 Hz, RSIR, fan 1,5m/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]
-35	-31	**147**	502	126	**0.72**	2.46	204	1.70	3.17
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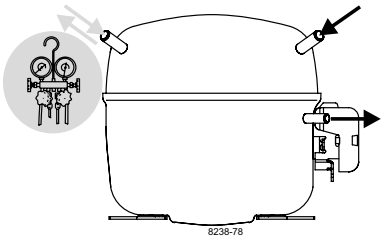
-15	5	**439**	1498	378	**1.17**	3.97	377	2.28	10.54
-10	14	**573**	1955	493	**1.33**	4.52	432	2.44	13.81
-5	23	**726**	2479	625	**1.48**	5.06	490	2.56	17.61



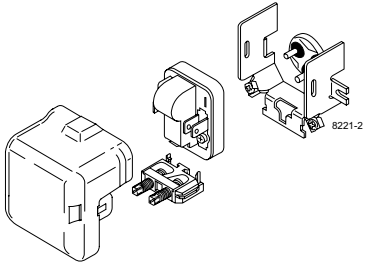
SC Compressors

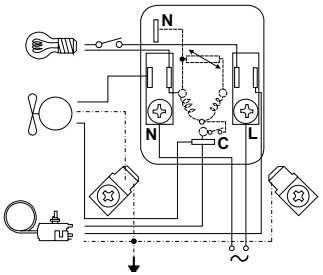
SECOP

Keep electrical equipment clear from oil, chemicals, and water

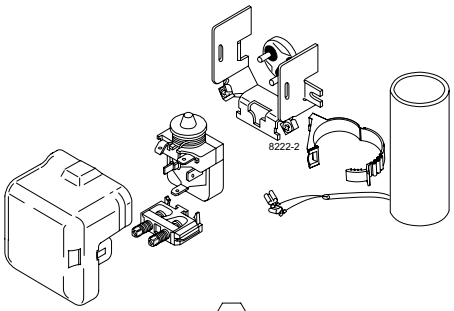
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

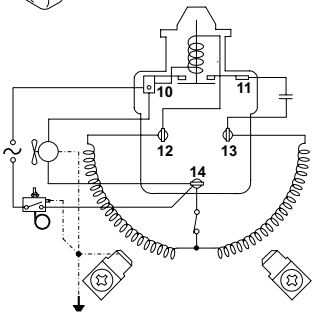
RSIR





CSIR





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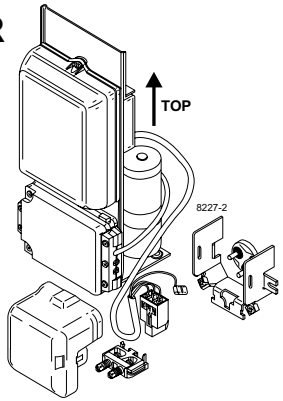
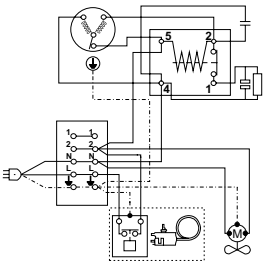
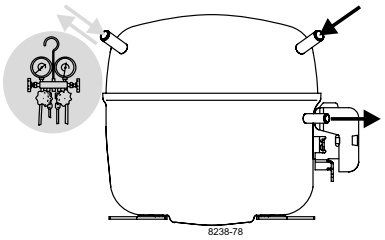






SC Compressors

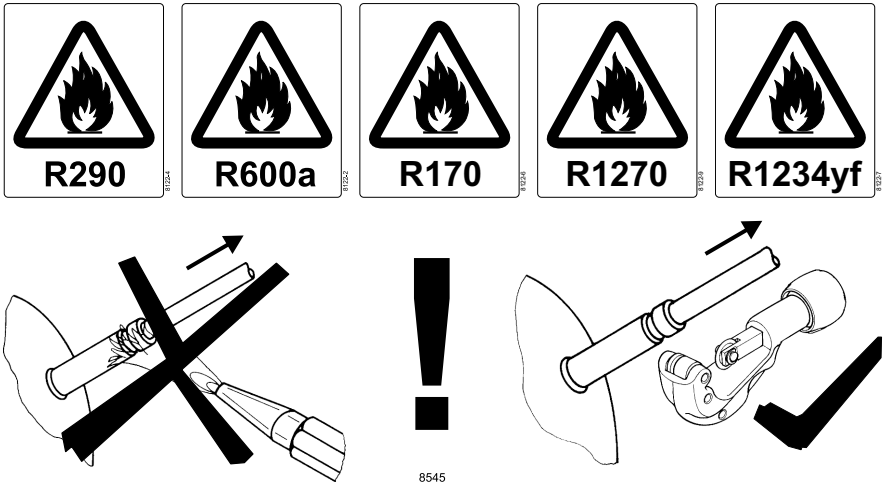
SECOP

Keep electrical equipment clear from oil, chemicals, and water

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

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

(applies to all flammable refrigerants)



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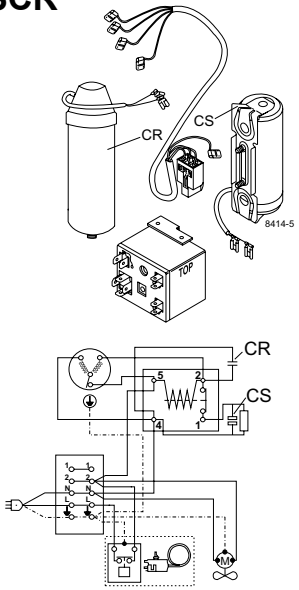

Dismantling, recycling, disposal: At the end of a compressor's lifecycle, proceed by separating and storing components according to their environmental impact. Parts that may cause pollution must be clearly identified and handled separately, ensuring appropriate disposal. Refrigerant gas must not be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