Single
Packs

Single Pack SC15G 115V 60Hz CSIR

Single pack code number: **195B4164**

Position	Title	Code	Amount
1	Compressor SC15G	104G7550	1
2	Starting relay	117U6020	1
3	Starting capacitor (240µF 125V, 6.3mm)	117U5023	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:
104G7550

Compressor Data

Refrigerant(s)	**R134a / R513A**
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**	**Conf. 2**
Motor configuration	CSIR	CSIR
Power supply (nominal)	115 V/60 Hz	115 V/60 Hz
Number of phases	1	1
Voltage range	103-127 V	103-127 V
Approvals	UL	UL
Starting torque	HST	HST
Refrigerant	R134a	R513A
Application	LBP+MBP+HBP	LBP+MBP+HBP
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

Model
SC15G

Sales code:
104G7550

Compressor Design

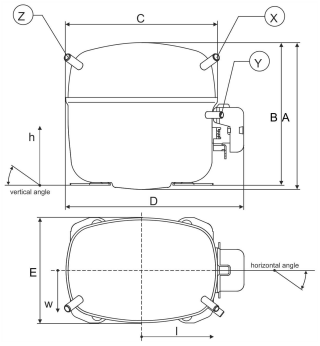
Oil type	**POE**	Winding resistance main	**1 Ohm**
Oil viscosity	**22cSt**	Winding resistance aux	**4.2 Ohm**
Oil quantity	**504 / 17.04fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**1,460 cm3 / 49.37fl.oz**	Max. discharge temp.	**130°C / 266°F**
Motor protection	**internal**		

Compressor Dimensions

Housing

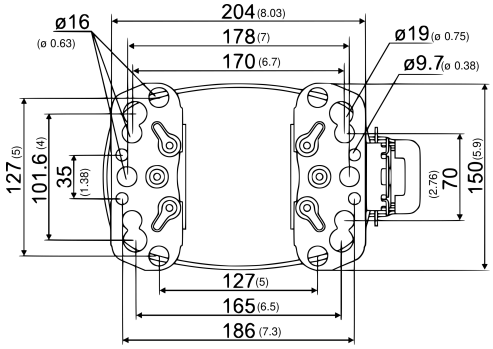
A Height	**209mm / 8.23in**
B Height	**203mm / 7.99in**
C Length shell	**218mm / 8.58in**
D Length w. cover	**255mm / 10.04in**
E Width	**151mm / 5.94in**

Find 3D Model here



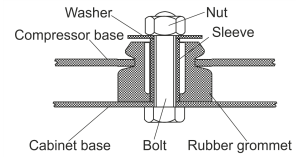
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.41–6.59 / 0.25–0.26in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	143°
Vertical angle ±2°	30°	0°	150°
Position l/h/w [mm]	107/183/55 / 4.21/7.20/2.17in	115/100/63 / 4.53/3.94/2.48in	-107/183/55 / -4.21/7.20/2.17in
Straight tube l. [mm]	12 / 0.47in	12 / 0.47in	12 / 0.47in

Mounting Accessories

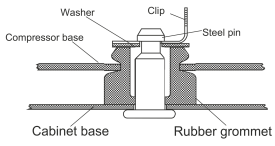


Dimensions in mm [in]

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:
104G7550

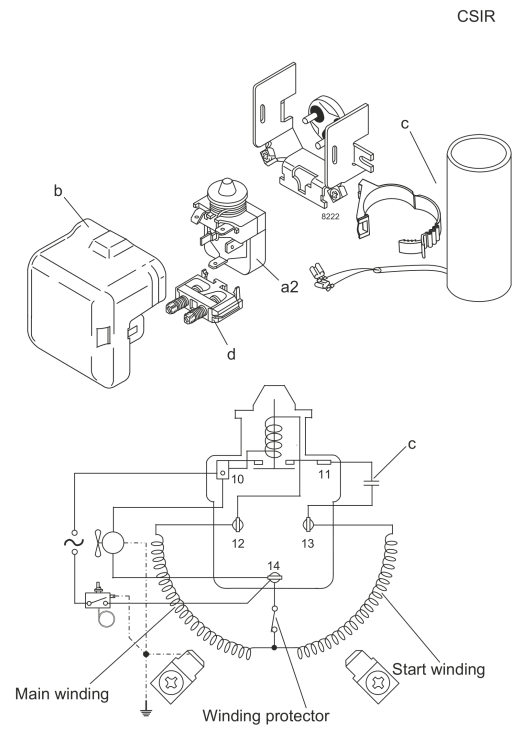
Configuration

Motor configuration	**CSIR**
Power supply (nominal)	**115 V/60 Hz 1~**
Refrigerant	**R134a**
Application	**LBP+MBP+HBP**
Voltage range	**103-127 V**
Starting torque	**HST**
Approvals	**UL**
Starting device type	**relay**
Run capacitor	**-/-**
Start capacitor	**240 µF**
LRA (locked rotor amps / 4s/ U(N))	**39.7 A**
RLA (rated load amps / 1s/ U(N))	**7.6 A**
Cut in current (U(N))	**39.7 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 1,5m/s

Electrical Accessories / Wiring Diagram



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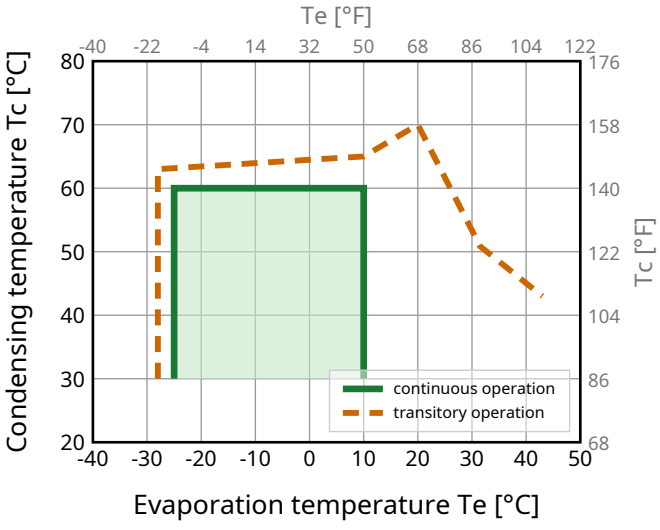
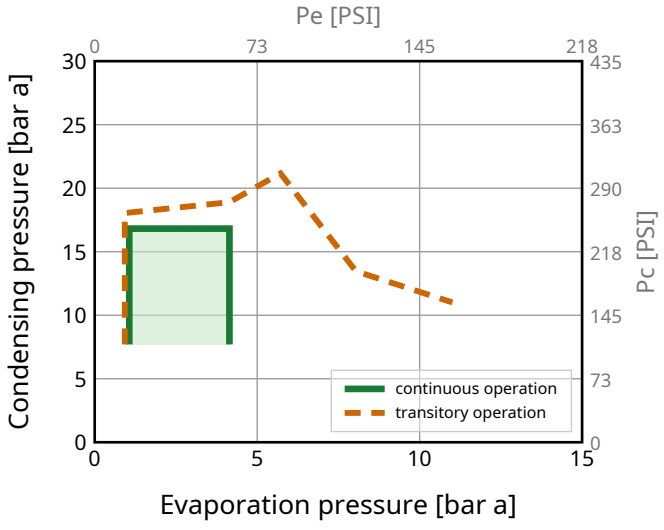
Components
a2 relay 117U6020
c start capacitor (240µF) 117U5023
d cord relief 103N1004
b plastic cover 103N2008

Alternative components
a2 relay 117U6020
c start capacitor (240µF, 15kOhm) 117U5034
d cord relief 103N1004
b plastic cover 103N2008

Operation Pressure Range





Model Sales code:

SC15G Configuration 1 **104G7550**

Standard Conditions

R134a, 115 V/60 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	**363**	1238	312	**1.10**	3.75	330	5.03	7.04	**ASHRAE LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**897**	3061	771	**1.59**	5.41	565	6.36	19.53	**ASHRAE MBP**
7.2 45	54.4 129.9	35 95	46.1 115	**1622**	5536	1395	**2.12**	7.23	766	7.85	35.91	**ASHRAE HBP**
-35 -31	40 104	20 68	40 104	**146**	496	125	**0.70**	2.40	207	4.55	3.18	**EN12900 LBP**
-10 14	45 113	20 68	45 113	**781**	2664	672	**1.57**	5.37	496	5.91	18.21	**EN12900 MBP**
5 41	50 122	20 68	50 122	**1377**	4699	1184	**1.94**	6.61	710	7.41	34.54	**EN12900 HBP**

Performance Tables

R134a, 115 V/60 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]
-25	-13	**324**	1104	278	**1.03**	3.52	314	4.93	7.00
-20	-4	**459**	1567	395	**1.23**	4.19	374	5.22	9.96
-15	5	**621**	2119	534	**1.43**	4.87	435	5.54	13.51
-10	14	**809**	2760	696	**1.63**	5.56	496	5.91	17.66
-5	23	**1023**	3489	880	**1.83**	6.25	558	6.31	22.44
0	32	**1263**	4308	1086	**2.04**	6.95	620	6.74	27.86
5	41	**1529**	5217	1315	**2.24**	7.64	683	7.20	33.96
10	50	**1821**	6214	1566	**2.44**	8.33	746	7.69	40.76

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

-25	-13	**256**	874	220	**0.84**	2.86	305	4.92	6.11
-20	-4	**373**	1273	321	**0.99**	3.38	376	5.25	8.92
-15	5	**516**	1761	444	**1.15**	3.94	447	5.63	12.39
-10	14	**685**	2338	589	**1.32**	4.50	519	6.06	16.52
-5	23	**880**	3004	757	**1.49**	5.08	591	6.54	21.34
0	32	**1102**	3760	948	**1.66**	5.66	664	7.06	26.87
5	41	**1349**	4604	1160	**1.83**	6.25	737	7.62	33.14
10	50	**1623**	5538	1396	**2.00**	6.84	810	8.21	40.21

Model
SC15G Configuration 2

Sales code:
104G7550

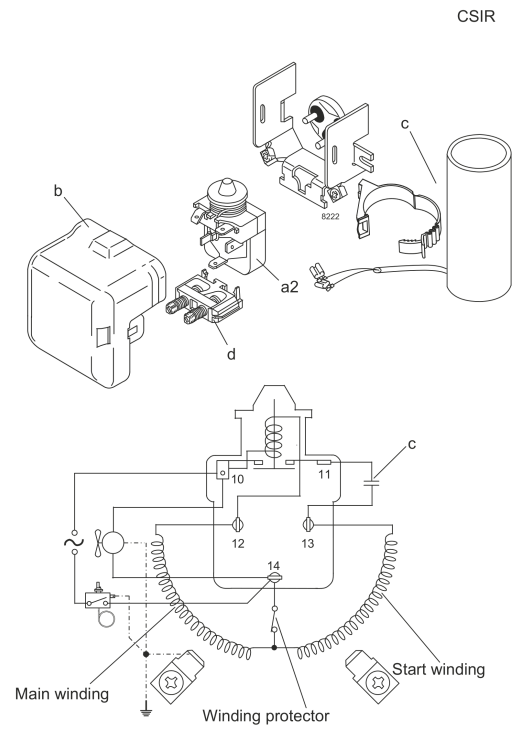
Configuration

Motor configuration	**CSIR**
Power supply (nominal)	**115 V/60 Hz 1~**
Refrigerant	**R513A**
Application	**LBP+MBP+HBP**
Voltage range	**103-127 V**
Starting torque	**HST**
Approvals	**UL**
Starting device type	**relay**
Run capacitor	**-/-**
Start capacitor	**240 µF**
LRA (locked rotor amps / 4s/ U(N))	**39.7 A**
RLA (rated load amps / 1s/ U(N))	**7.6 A**
Cut in current (U(N))	**39.7 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 1,5m/s

Electrical Accessories / Wiring Diagram



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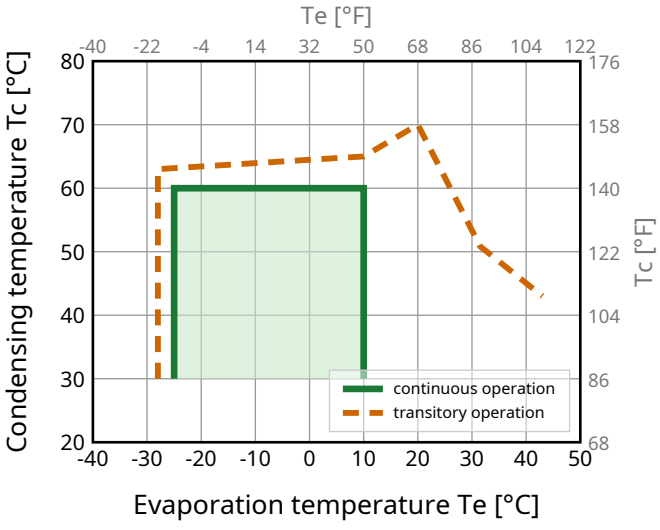
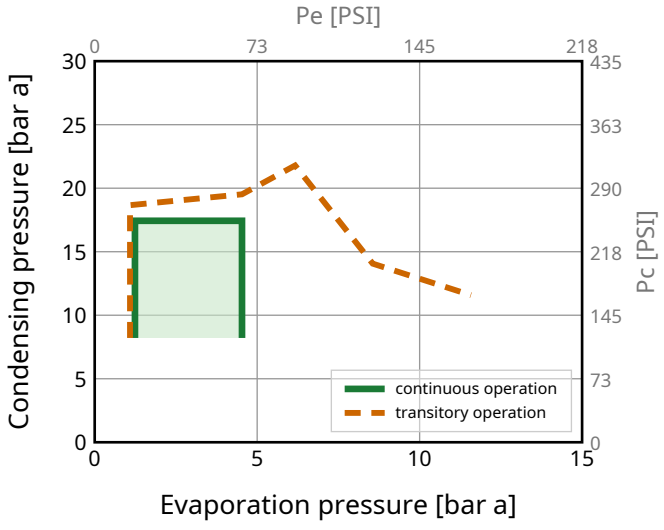
Components
a2 relay 117U6020
c start capacitor (240µF) 117U5023
d cord relief 103N1004
b plastic cover 103N2008

Alternative components
a2 relay 117U6020
c start capacitor (240µF, 15kOhm) 117U5034
d cord relief 103N1004
b plastic cover 103N2008

Operation Pressure Range





Model

SC15G Configuration 2

Sales code:

104G7550

Standard Conditions

R513A, 115 V/60 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	**402**	1371	346	**1.11**	3.78	362	4.93	8.80	**ASHRAE LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**942**	3214	810	**1.57**	5.34	602	6.70	23.49	**ASHRAE MBP**
7.2 45	54.4 129.9	35 95	46.1 115	**1668**	5692	1435	**2.08**	7.09	802	8.19	42.39	**ASHRAE HBP**
-35 -31	40 104	20 68	40 104	**160**	545	137	**0.70**	2.40	228	3.93	4.02	**EN12900 LBP**
-10 14	45 113	20 68	45 113	**813**	2774	699	**1.53**	5.24	530	6.17	22.01	**EN12900 MBP**
5 41	50 122	20 68	50 122	**1387**	4732	1193	**1.86**	6.35	746	7.77	40.89	**EN12900 HBP**

Performance Tables

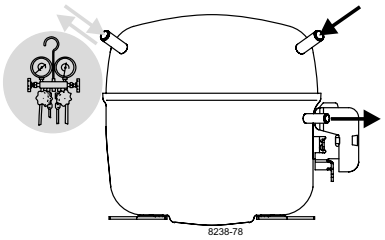
R513A, 115 V/60 Hz, CSIR, fan 1,5m/s

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]
-25	-13	**353**	1203	303	**1.03**	3.51	342	4.78	8.72
-20	-4	**494**	1687	425	**1.22**	4.17	405	5.25	12.27
-15	5	**661**	2256	569	**1.41**	4.82	468	5.71	16.48
-10	14	**853**	2910	733	**1.61**	5.49	530	6.17	21.35
-5	23	**1069**	3648	920	**1.81**	6.17	592	6.63	26.91
0	32	**1310**	4470	1127	**2.00**	6.83	654	7.09	33.19
5	41	**1575**	5375	1355	**2.20**	7.50	716	7.55	40.21
10	50	**1865**	6363	1604	**2.39**	8.16	779	8.02	48.03

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

-25	-13	**277**	946	239	**0.82**	2.80	337	4.74	7.68
-20	-4	**398**	1357	342	**0.97**	3.31	410	5.29	11.05
-15	5	**543**	1851	467	**1.12**	3.83	483	5.82	15.15
-10	14	**712**	2430	612	**1.28**	4.37	556	6.36	19.98
-5	23	**906**	3092	779	**1.44**	4.92	628	6.90	25.58
0	32	**1125**	3837	967	**1.60**	5.48	701	7.43	31.98
5	41	**1367**	4665	1176	**1.77**	6.03	774	7.97	39.21
10	50	**1634**	5575	1405	**1.93**	6.58	847	8.52	47.33



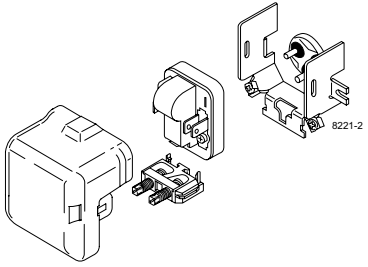
SC Compressors

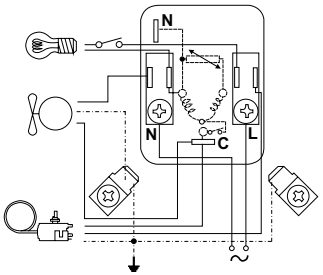
SECOP

Keep electrical equipment clear from oil, chemicals, and water

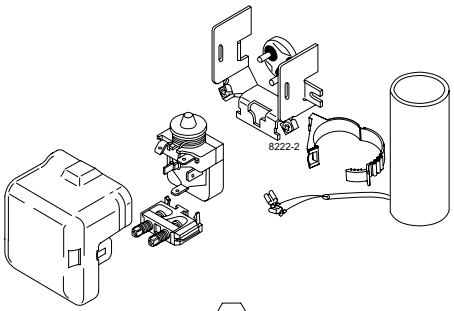
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

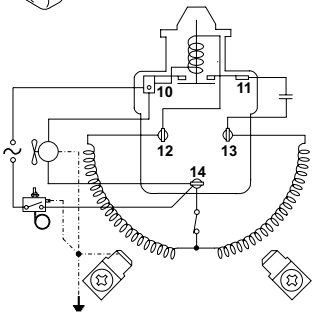
RSIR





CSIR





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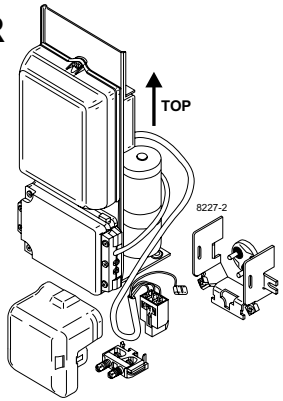
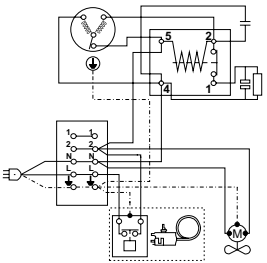
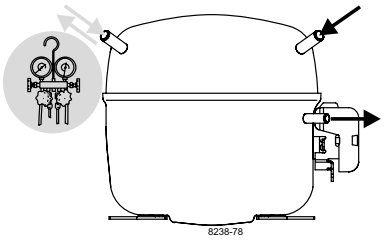






SC Compressors

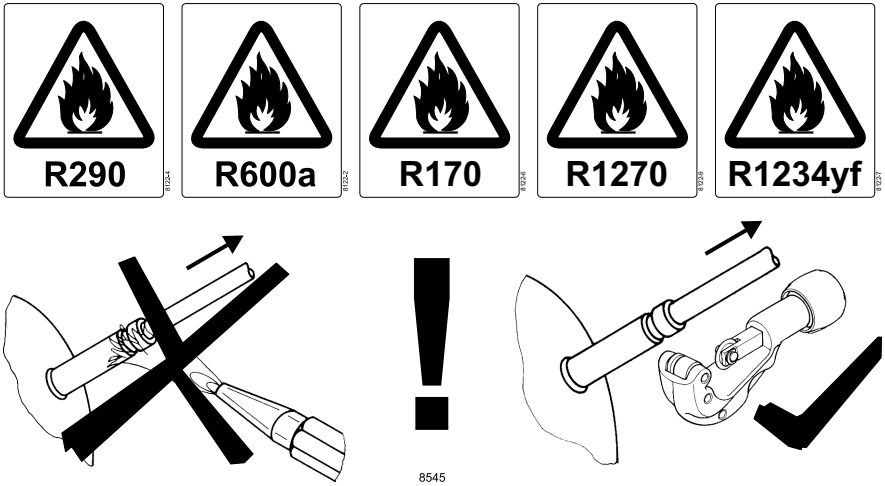
SECOP

Keep electrical equipment clear from oil, chemicals, and water

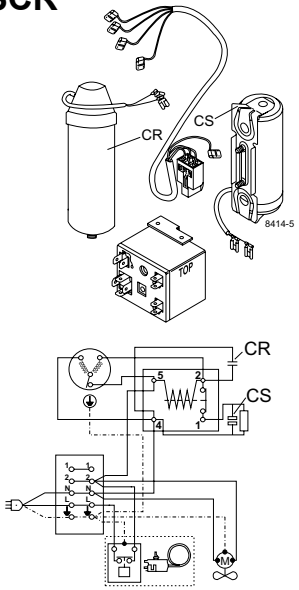
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

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

(applies to all flammable refrigerants)



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**