Single
Packs

Single Pack SC15DL 220-240V 50Hz CSCR

Single pack code number: **195B4515**

Position	Title	Code	Amount
1	Compressor SC15DL	104L2866	1
2	SC starting device (550mm)	117-7029	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
SC15DL

Sales code:
104L2866

Compressor Data

Refrigerant(s)	**R404A / R507 / R407C**
Refr. charge - tech. limit	**1300g / 45.86oz**
Weight	**13.50 kg / 29.76lbs**
Displacement	**15.28 cm3 / 0.93cu.in**
Compressors on pallet	**80**

General – Configurations With SC15DL

–	**Conf. 1**	**Conf. 2**
Motor configuration	CSCR	CSCR
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, CCC	VDE, CCC
Starting torque	HST	HST
Refrigerant	R404A	R407C
Application	HBP	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
SC15DL

Sales code:
104L2866

Compressor Design

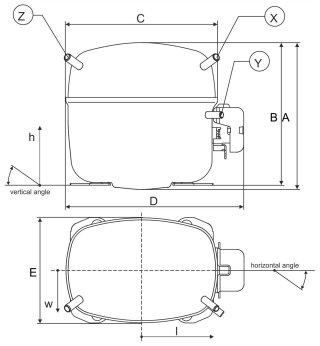
Oil type	**POE**	Winding resistance main	**3.5 Ohm**
Oil viscosity	**32cSt**	Winding resistance aux	**13 Ohm**
Oil quantity	**550 / 18.60fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**1,460 cm3 / 49.37fl.oz**	Max. discharge temp.	**130°C / 266°F**
Motor protection	**internal**		

Compressor Dimensions

Housing

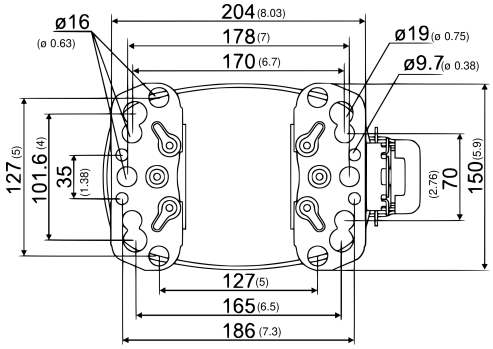
A Height	**219mm / 8.62in**
B Height	**213mm / 8.39in**
C Length shell	**218mm / 8.58in**
D Length w. cover	**255mm / 10.04in**
E Width	**151mm / 5.94in**

Find 3D Model here



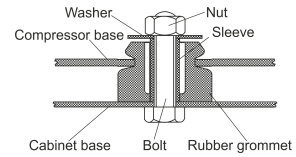
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 10.11–10.29 / 0.40–0.41in	øi 6.11–6.29 / 0.24–0.25in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	143°
Vertical angle ±2°	30°	0°	150°
Position l/h/w [mm]	107/193/55 / 4.21/7.60/2.17in	115/110/63 / 4.53/4.33/2.48in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

Mounting Accessories

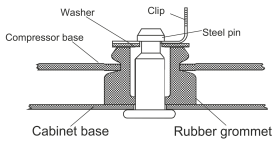


Dimensions in mm [in]

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
SC15DL Configuration 1

Sales code:
104L2866

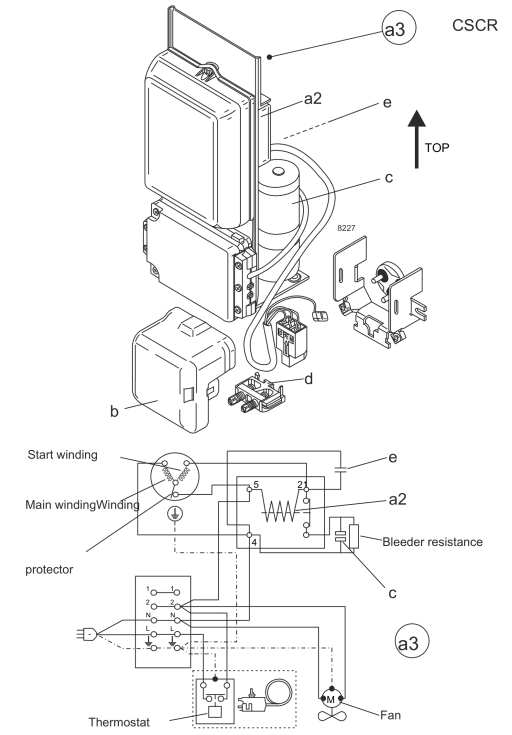
Configuration

Motor configuration	**CSCR**
Power supply (nominal)	**220-240 V/50 Hz 1~**
Refrigerant	**R404A**
Application	**HBP**
Voltage range	**198-254 V**
Starting torque	**HST**
Approvals	**VDE, CCC**
Starting device type	**relay**
Run capacitor	**10 µF**
Start capacitor	**80 µF**
LRA (locked rotor amps / 4s/ U(N))	**22 A**
RLA (rated load amps / 1s/ U(N))	**3.9 A**
Cut in current (U(N))	**22 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 3m/s

Electrical Accessories / Wiring Diagram



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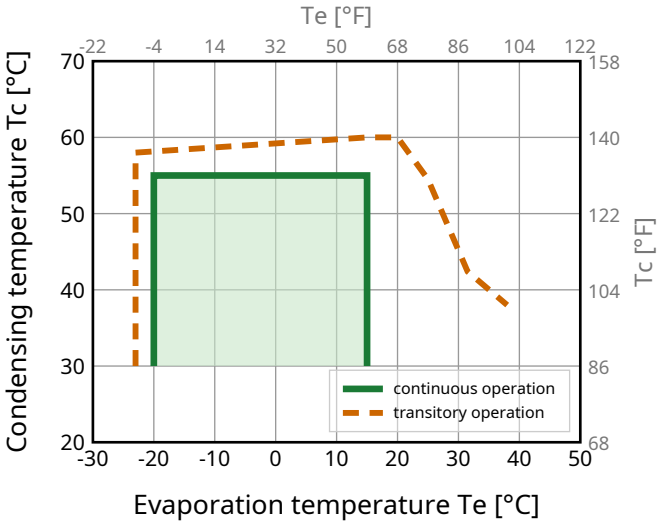
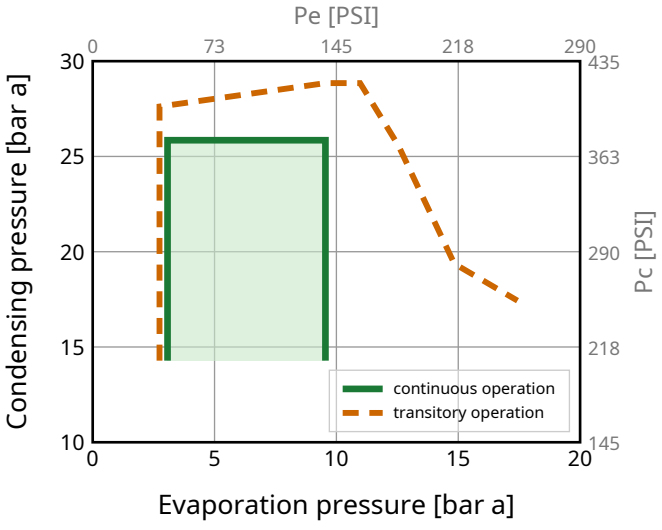
Components
a3 SC starter kit (550mm) 117-7029
b plastic cover 103N2009
d cord relief 103N1004

Alternative components
a3 SC starter kit (650mm) 117-7032
a3 SC starter kit (1000mm) 117-7041
a2 potential relay (RVA 4H3R341) 117-7427
c start capacitor (80µF) 117U5373
e run capacitor (10µF, 6.3mm) 117-7112

Operation Pressure Range





Model
SC15DL Configuration 1

Sales code:
104L2866

Standard Conditions

R404A, 220 V/50 Hz, CSCR, 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	**2264**	7726	1947	**2.25**	7.67	1007	5.16	64.33	**ASHRAE HBP**
5 41	55 131	32 89.6	55 131	**1777**	6064	1528	**1.79**	6.10	994	5.09	59.15	**CECOMAF HBP**
5 41	50 122	20 68	50 122	**1849**	6308	1590	**2.00**	6.82	925	4.77	63.00	**EN12900 HBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**1311**	4473	1127	**1.56**	5.33	840	4.34	36.01	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**970**	3309	834	**1.22**	4.16	795	4.12	31.00	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**1138**	3883	979	**1.58**	5.38	722	3.79	34.22	**EN12900 MBP**

Performance Tables

R404A, 220 V/50 Hz, CSCR, 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	**759**	2589	653	**1.29**	4.40	589	3.09	20.54
-15	5	**964**	3290	829	**1.46**	4.99	659	3.46	26.29
-10	14	**1207**	4119	1038	**1.67**	5.70	722	3.79	33.19
-5	23	**1493**	5093	1284	**1.92**	6.55	778	4.07	41.44
0	32	**1825**	6228	1570	**2.21**	7.55	825	4.30	51.26
5	41	**2210**	7541	1901	**2.56**	8.72	865	4.50	62.91
10	50	**2652**	9049	2281	**2.96**	10.10	896	4.64	76.70
15	59	**3156**	10767	2714	**3.44**	11.72	918	4.75	93.04

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

-20	-4	**576**	1967	496	**0.93**	3.18	619	3.25	18.10
-15	5	**762**	2600	655	**1.07**	3.66	711	3.71	24.12
-10	14	**970**	3309	834	**1.22**	4.16	795	4.12	31.00
-5	23	**1205**	4112	1036	**1.39**	4.73	870	4.49	38.96
0	32	**1473**	5025	1266	**1.57**	5.36	937	4.81	48.24
5	41	**1777**	6064	1528	**1.79**	6.10	994	5.09	59.15
10	50	**2124**	7246	1826	**2.04**	6.95	1042	5.33	72.02
15	59	**2517**	8587	2164	**2.33**	7.95	1081	5.52	87.30

Model
SC15DL Configuration 2

Sales code:
104L2866

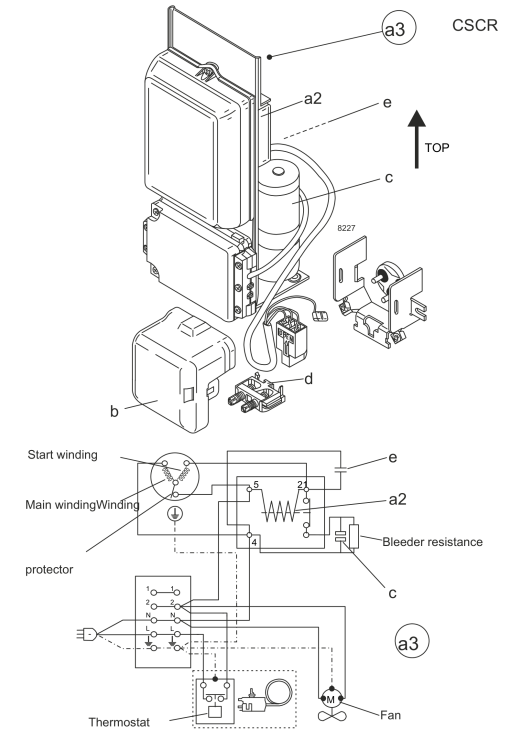
Configuration

Motor configuration	**CSCR**
Power supply (nominal)	**220-240 V/50 Hz 1~**
Refrigerant	**R407C**
Application	**HBP**
Voltage range	**198-254 V**
Starting torque	**HST**
Approvals	**VDE, CCC**
Starting device type	**relay**
Run capacitor	**10 µF**
Start capacitor	**80 µF**
LRA (locked rotor amps / 4s/ U(N))	**22 A**
RLA (rated load amps / 1s/ U(N))	**3.9 A**
Cut in current (U(N))	**22 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 3m/s

Electrical Accessories / Wiring Diagram



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d cord relief 103N1004

Alternative components
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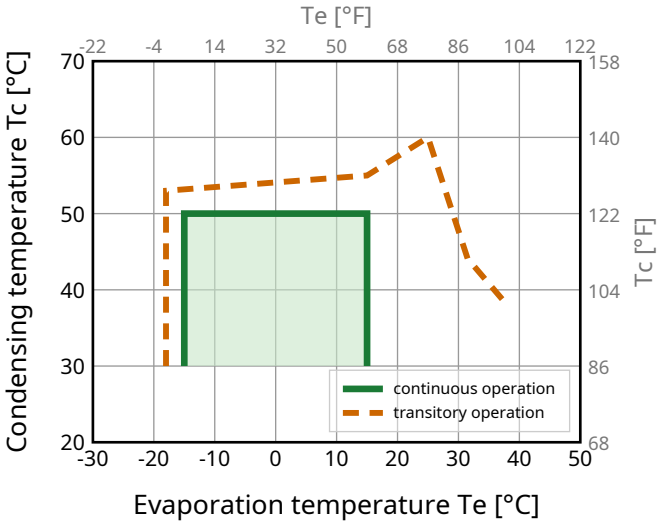
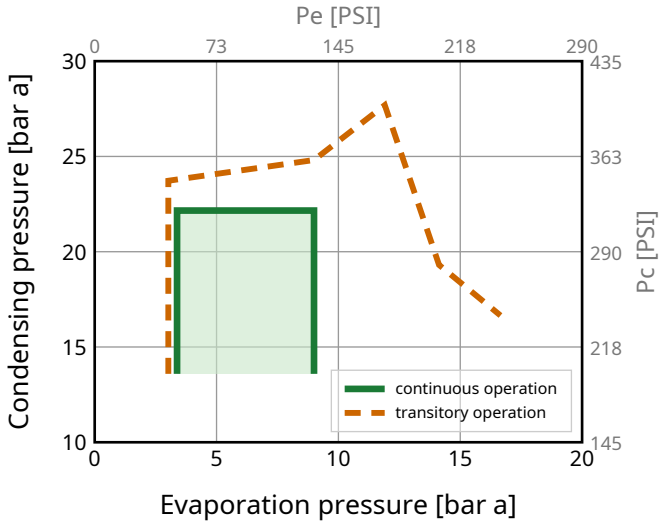
a3 SC starter kit (1000mm) 117-7041
a2 potential relay (RVA 4H3R341) 117-7427
c start capacitor (80µF) 117U5373
e run capacitor (10µF, 6.3mm) 117-7112

Operation Pressure Range





Model
SC15DL Configuration 2

Sales code:
104L2866

Standard Conditions

R407C, 220 V/50 Hz, CSCR, 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	**2068**	7057	1779	**2.59**	8.84	798	3.98	44.66	**ASHRAE HBP**
5 41	55 131	32 89.6	55 131	**1687**	5755	1451	**2.16**	7.37	780	3.90	40.68	**CECOMAF HBP**
5 41	50 122	20 68	50 122	**1766**	6026	1519	**2.34**	7.98	755	3.79	43.42	**EN12900 HBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**1104**	3767	949	**1.70**	5.79	650	3.33	23.19	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**833**	2841	716	**1.36**	4.66	610	3.15	19.46	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**977**	3333	840	**1.66**	5.65	590	3.08	21.90	**EN12900 MBP**

Performance Tables

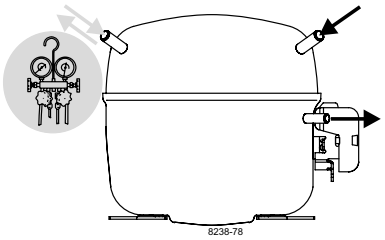
R407C, 220 V/50 Hz, CSCR, fan 3m/s

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	**777**	2650	668	**1.45**	4.96	534	2.84	16.21
-10	14	**1011**	3450	870	**1.71**	5.85	590	3.08	21.24
-5	23	**1293**	4412	1112	**2.02**	6.89	640	3.30	27.38
0	32	**1629**	5557	1401	**2.38**	8.10	686	3.50	34.81
5	41	**2023**	6903	1740	**2.79**	9.51	726	3.67	43.73
10	50	**2483**	8472	2135	**3.26**	11.14	761	3.82	54.37
15	59	**3014**	10282	2592	**3.82**	13.02	790	3.94	67.03

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

-15	5	**622**	2123	535	**1.15**	3.92	542	2.85	14.43
-10	14	**833**	2841	716	**1.36**	4.66	610	3.15	19.46
-5	23	**1076**	3672	926	**1.60**	5.46	672	3.42	25.37
0	32	**1359**	4637	1169	**1.86**	6.36	729	3.67	32.38
5	41	**1687**	5755	1451	**2.16**	7.37	780	3.90	40.68
10	50	**2065**	7046	1776	**2.50**	8.53	826	4.11	50.54
15	59	**2500**	8530	2150	**2.89**	9.86	865	4.29	62.27



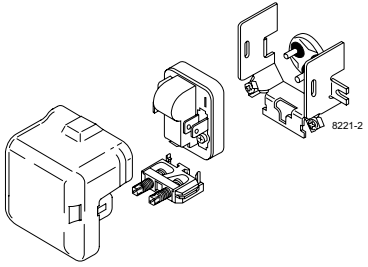
SC Compressors

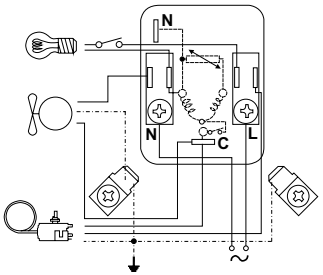
SECOP

Keep electrical equipment clear from oil, chemicals, and water

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

RSIR





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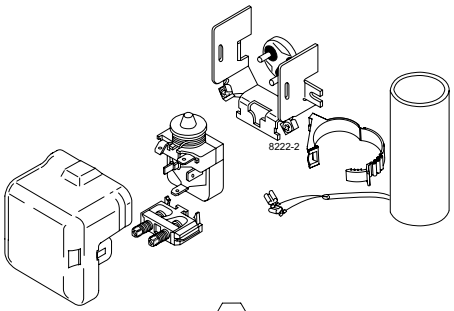

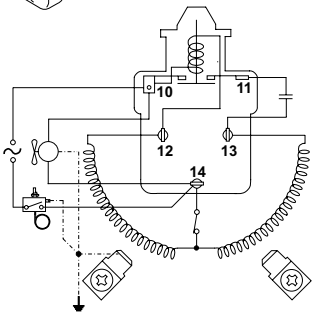

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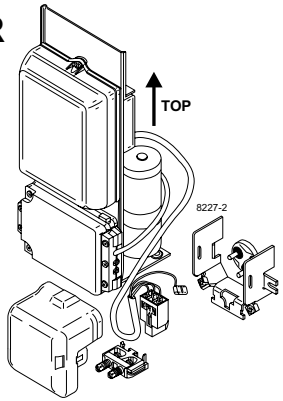
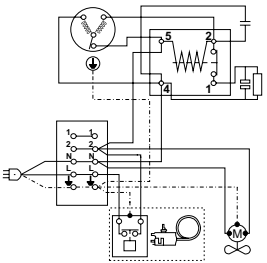
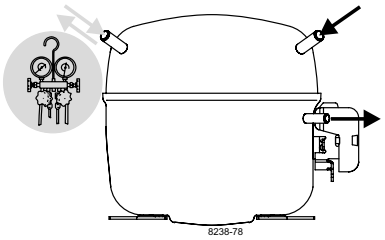






SC Compressors

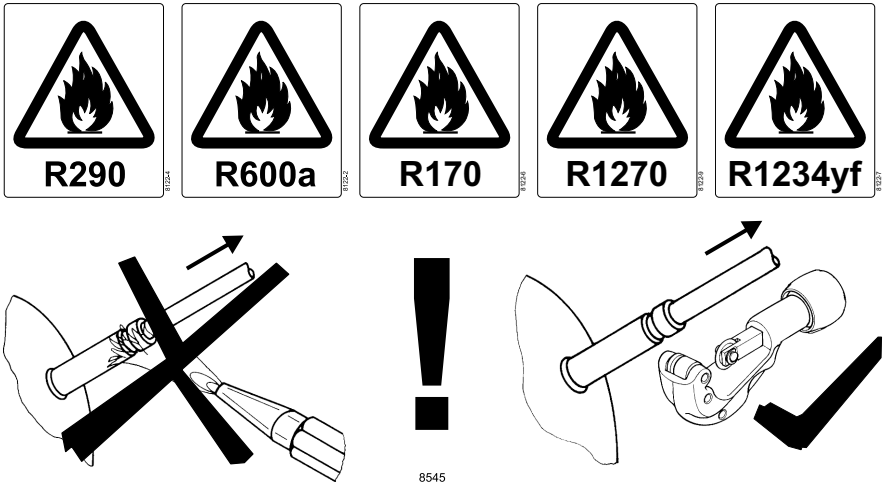
SECOP

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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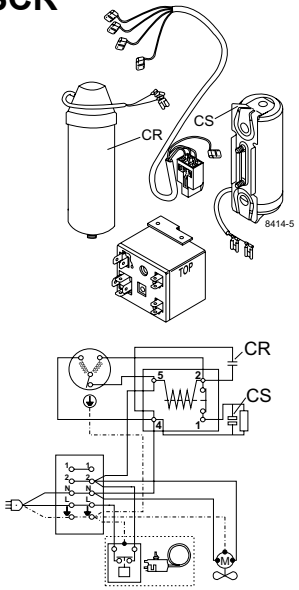

Dismantling, recycling, disposal: At the end of a compressor's lifecycle, proceed by separating and storing components according to their environmental impact. Parts that may cause pollution must be clearly identified and handled separately, ensuring appropriate disposal. Refrigerant gas must not be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