Single
Packs

Single Pack SC15CLX.2 208-230V 60Hz CSCR

Single pack code number: **195B4163**

Position	Title	Code	Amount
1	Compressor SC15CLX.2	104L2897	1
2	SC starting device (550mm)	117-7039	1
3	Cord relief	103N1004	1
4	Cover	103N2008	1
5	Bolt joint for one compressor | M6 | ø16mm	118-1917	1

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Model
SC15CLX.2

Sales code:
104L2897

Compressor Data

Refrigerant(s)	**R404A / R507 / R452A**
Refr. charge - tech. limit	**1300g / 45.86oz**
Weight	**13.80 kg / 30.42lbs**
Displacement	**15.28 cm3 / 0.93cu.in**
Compressors on pallet	**80**

General – Configurations With SC15CLX.2

–	**Conf. 1**	**Conf. 2**
Motor configuration	CSCR	CSCR
Power supply (nominal)	208-230 V/60 Hz	208-230 V/60 Hz
Number of phases	1	1
Voltage range	187-254 V	187-254 V
Approvals	UL, KC	UL
Starting torque	HST	HST
Refrigerant	R404A	R452A
Application	LBP	LBP
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

SC15CLX.2

Sales code:

104L2897

Compressor Design

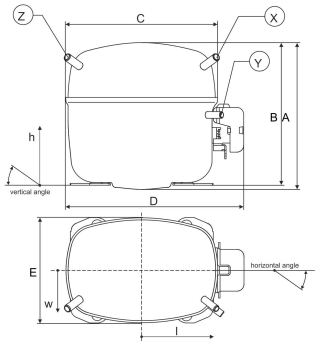
Oil type	**POE**	Winding resistance main	**3.4 Ohm**
Oil viscosity	**32cSt**	Winding resistance aux	**14.4 Ohm**
Oil quantity	**499 / 16.87fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**1,510 cm3 / 51.06fl.oz**	Max. discharge temp.	**130°C / 266°F**
Motor protection	**internal**		

Compressor Dimensions

Housing

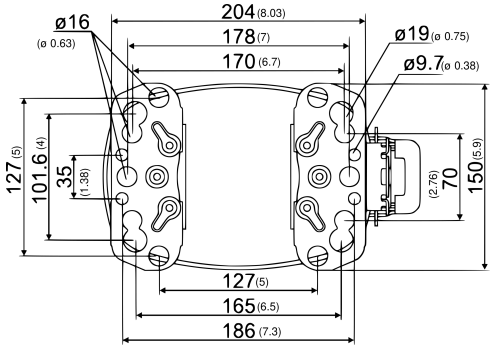
A Height	**219mm / 8.62in**
B Height	**213mm / 8.39in**
C Length shell	**239mm / 9.41in**
D Length w. cover	**255mm / 10.04in**
E Width	**151mm / 5.94in**

Find 3D Model here



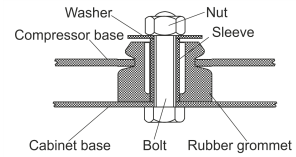
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 9.54–9.72 / 0.38–0.38in	øi 6.41–6.59 / 0.25–0.26in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	143°
Vertical angle ±2°	30°	0°	150°
Position l/h/w [mm]	107/193/55 / 4.21/7.60/2.17in	115/110/63 / 4.53/4.33/2.48in	-107/193/55 / -4.21/7.60/2.17in
Straight tube l. [mm]	12 / 0.47in	12 / 0.47in	12 / 0.47in

Mounting Accessories

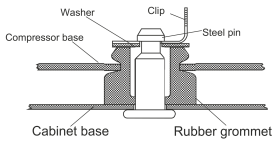


Dimensions in mm [in]

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

SC15CLX.2 Configuration 1

Sales code:

104L2897

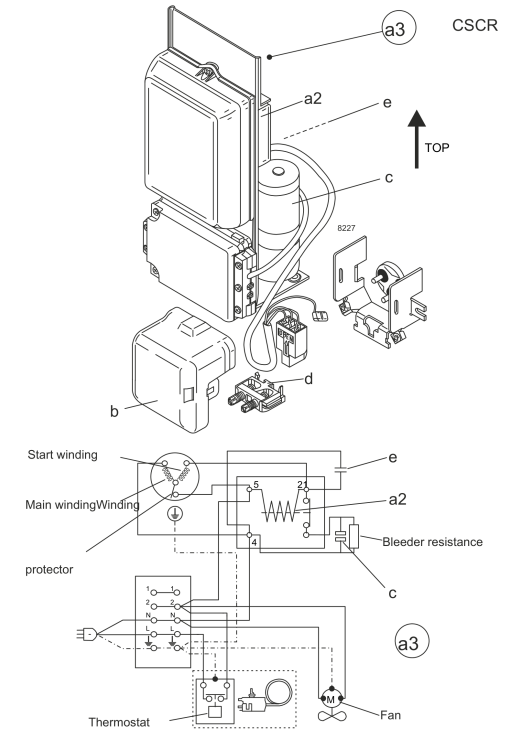
Configuration

Motor configuration	**CSCR**
Power supply (nominal)	**208-230 V/60 Hz 1~**
Refrigerant	**R404A**
Application	**LBP**
Voltage range	**187-254 V**
Starting torque	**HST**
Approvals	**UL, KC**
Starting device type	**relay**
Run capacitor	**10 µF**
Start capacitor	**80 µF**
LRA (locked rotor amps / 4s/ U(N))	**23.4 A**
RLA (rated load amps / 1s/ U(N))	**4.3 A**
Cut in current (U(N))	**23.4 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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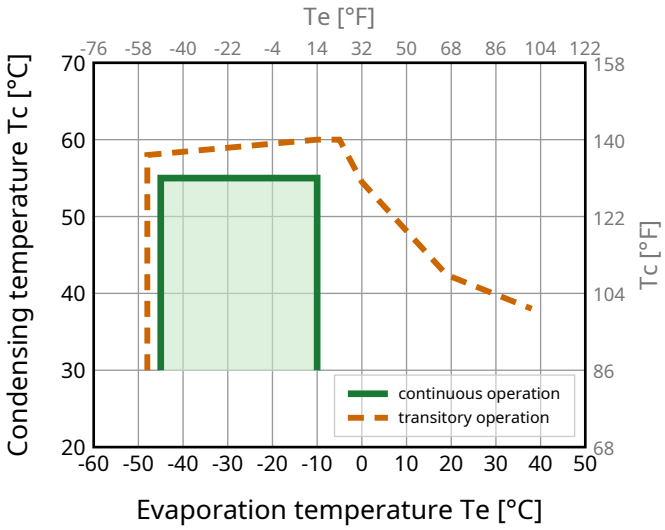
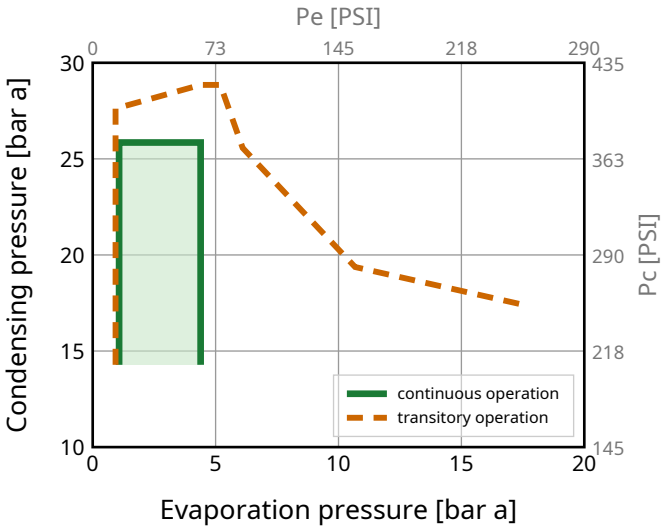
Components
a3 SC starter kit (550mm) 117-7039
b plastic cover 103N2008
d cord relief 103N1004

Alternative components
a3 SC starter kit (1000mm) 117-7043

Operation Pressure Range





Model

SC15CLX.2 Configuration 1

Sales code:

104L2897

Standard Conditions

R404A, 230 V/60 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]	
-23.3 -10	54.4 129.9	32.2 90	32.2 90	**882**	3010	759	**1.33**	4.54	663	3.09	20.51	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**592**	2021	509	**0.93**	3.18	636	2.96	18.47	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**478**	1632	411	**1.03**	3.50	466	2.22	12.96	**EN12900 LBP**
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	**668**	2279	574	**1.03**	3.52	647	3.05	23.57	**ARI540 LBP**
-23.3 -10	40.6 105.1	32.2 90	32.2 90	**1019**	3477	876	**1.63**	5.57	625	2.96	23.69	**AHAM LBP**
-35 -31	45 113	32 89.6	45 113	**437**	1490	375	**0.93**	3.18	469	2.22	11.64	**opt LBP**

Performance Tables

R404A, 230 V/60 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]
-45	-49	**194**	661	166	**0.59**	2.03	326	1.60	5.13
-40	-40	**305**	1040	262	**0.77**	2.61	398	1.90	8.10
-35	-31	**437**	1490	375	**0.93**	3.18	469	2.22	11.64
-30	-22	**593**	2023	510	**1.10**	3.75	539	2.55	15.87
-25	-13	**776**	2649	668	**1.27**	4.33	611	2.89	20.89
-20	-4	**991**	3380	852	**1.45**	4.93	686	3.24	26.82
-15	5	**1239**	4228	1066	**1.62**	5.53	764	3.60	33.79
-10	14	**1525**	5204	1312	**1.80**	6.14	848	3.98	41.93

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

-45	-49	**93**	317	80	**0.31**	1.07	296	1.46	2.84
-40	-40	**190**	648	163	**0.49**	1.69	384	1.82	5.84
-35	-31	**303**	1035	261	**0.65**	2.21	469	2.19	9.36
-30	-22	**436**	1489	375	**0.79**	2.70	553	2.56	13.53
-25	-13	**592**	2021	509	**0.93**	3.18	636	2.96	18.47
-20	-4	**775**	2643	666	**1.07**	3.66	721	3.36	24.32
-15	5	**986**	3365	848	**1.22**	4.16	809	3.77	31.23
-10	14	**1231**	4200	1059	**1.37**	4.67	900	4.20	39.35

Model
SC15CLX.2 Configuration 2

Sales code:
104L2897

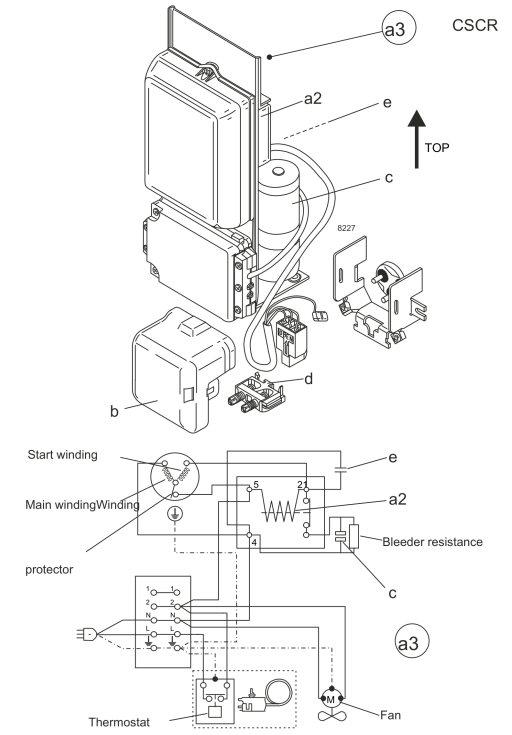
Configuration

Motor configuration	**CSCR**
Power supply (nominal)	**208-230 V/60 Hz 1~**
Refrigerant	**R452A**
Application	**LBP**
Voltage range	**187-254 V**
Starting torque	**HST**
Approvals	**UL**
Starting device type	**relay**
Run capacitor	**10 µF**
Start capacitor	**80 µF**
LRA (locked rotor amps / 4s/ U(N))	**23.4 A**
RLA (rated load amps / 1s/ U(N))	**4.3 A**
Cut in current (U(N))	**23.4 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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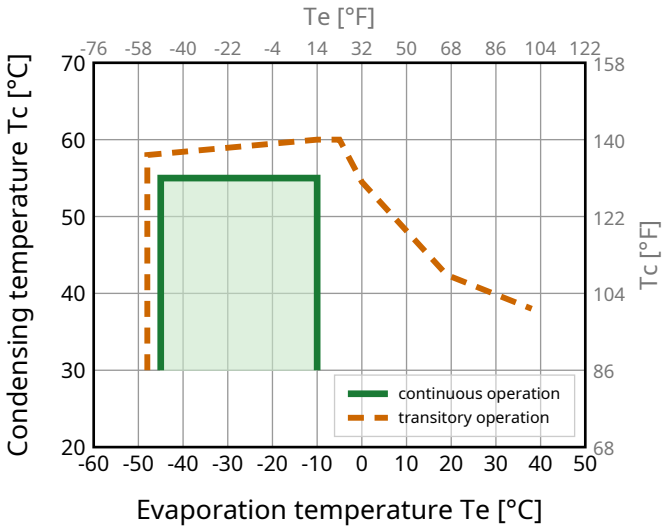
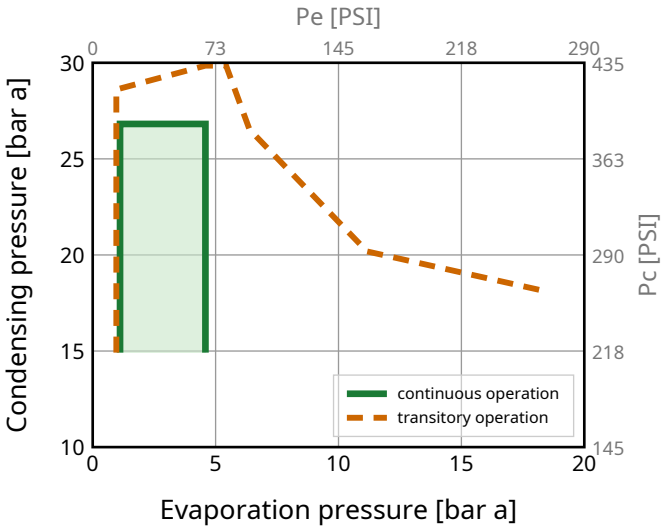
Components
a3 SC starter kit (550mm) 117-7039
b plastic cover 103N2008
d cord relief 103N1004

Alternative components
a3 SC starter kit (1000mm) 117-7043

Operation Pressure Range





Model

SC15CLX.2 Configuration 2

Sales code:

104L2897

Standard Conditions

R452A, 230 V/60 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]	
-23.3 -10	54.4 129.9	32.2 90	32.2 90	**810**	2764	697	**1.31**	4.47	619	2.91	19.61	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**545**	1860	469	**0.92**	3.14	592	2.79	17.59	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**430**	1468	370	**1.00**	3.42	430	2.06	12.12	**EN12900 LBP**
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	**619**	2111	532	**1.02**	3.49	605	2.85	22.58	**ARI540 LBP**
-23.3 -10	40.6 105.1	32.2 90	32.2 90	**939**	3204	808	**1.60**	5.47	586	2.76	22.72	**AHAM LBP**
-35 -31	45 113	32 89.6	45 113	**392**	1337	337	**0.91**	3.10	431	2.06	10.85	**opt LBP**

Performance Tables

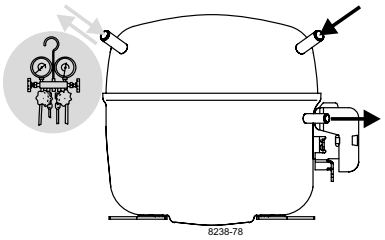
R452A, 230 V/60 Hz, CSCR, fan 3m/s

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]
-45	-49	**164**	559	141	**0.56**	1.92	291	1.43	4.51
-40	-40	**268**	913	230	**0.74**	2.53	361	1.75	7.39
-35	-31	**392**	1337	337	**0.91**	3.10	431	2.06	10.85
-30	-22	**539**	1840	464	**1.08**	3.68	500	2.37	15.01
-25	-13	**714**	2437	614	**1.25**	4.26	571	2.69	19.97
-20	-4	**920**	3137	791	**1.43**	4.86	645	3.03	25.86
-15	5	**1159**	3954	997	**1.60**	5.47	723	3.38	32.82
-10	14	**1436**	4899	1235	**1.78**	6.07	807	3.75	41.00

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

-45	-49	**72**	246	62	**0.28**	0.96	257	1.28	2.29
-40	-40	**163**	556	140	**0.48**	1.62	342	1.66	5.19
-35	-31	**270**	921	232	**0.63**	2.16	426	2.04	8.62
-30	-22	**396**	1351	341	**0.78**	2.65	509	2.41	12.71
-25	-13	**545**	1860	469	**0.92**	3.14	592	2.79	17.59
-20	-4	**720**	2458	620	**1.06**	3.63	677	3.17	23.40
-15	5	**926**	3159	796	**1.21**	4.13	764	3.56	30.31
-10	14	**1164**	3973	1001	**1.36**	4.64	856	3.98	38.49



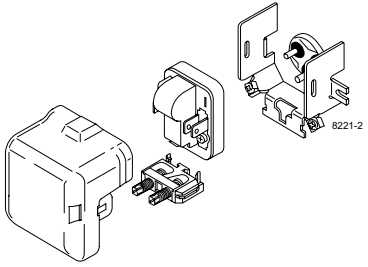
SC Compressors

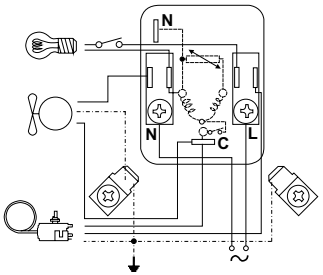
SECOP

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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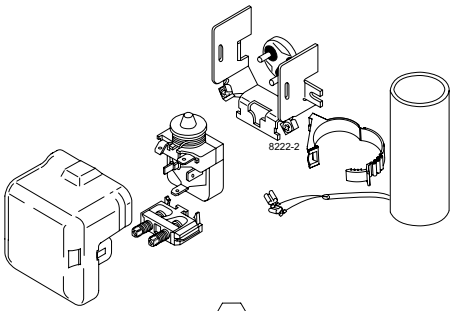
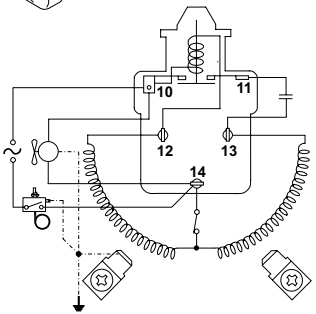
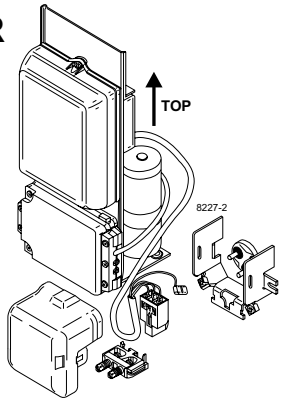
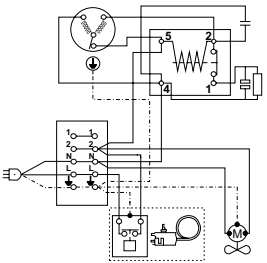
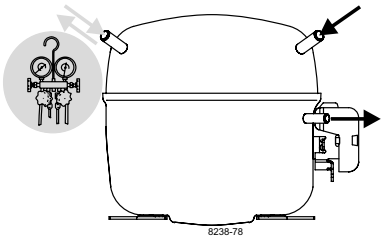




CSCR







SC Compressors

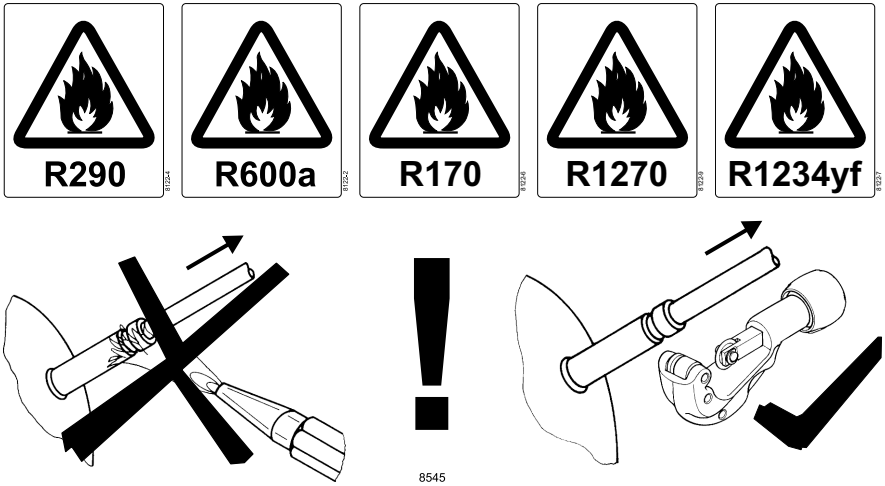
SECOP

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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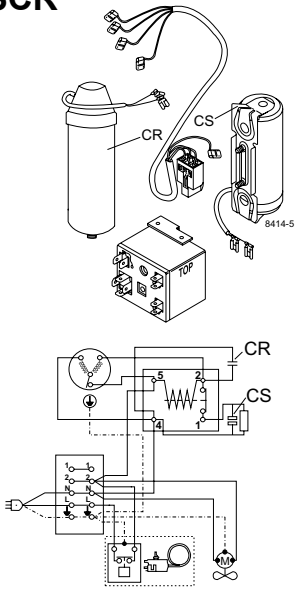

Dismantling, recycling, disposal: At the end of a compressor's lifecycle, proceed by separating and storing components according to their environmental impact. Parts that may cause pollution must be clearly identified and handled separately, ensuring appropriate disposal. Refrigerant gas must not be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