Single
Packs

Single Pack SC15CL 220-240V 50Hz CSIR

Single pack code number: **195B4021**

Position	Title	Code	Amount
1	Compressor SC15CL	104L2853	1
2	Starting relay	117U6019	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
SC15CL

Sales code:
104L2853

Compressor Data

Refrigerant(s)	**R404A / R452A / R507**
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 SC15CL

–	**Conf. 1**	**Conf. 2**
Motor configuration	CSIR	CSIR
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, EAC	VDE, CCC
Starting torque	HST	HST
Refrigerant	R404A	R452A
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

Model
SC15CL

Sales code:
104L2853

Compressor Design

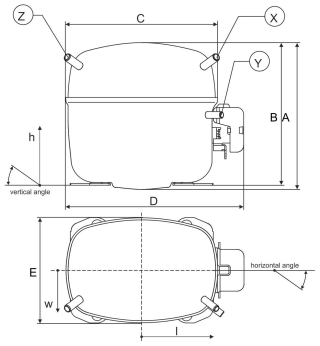
Oil type	**POE**	Winding resistance main	**3.7 Ohm**
Oil viscosity	**32cSt**	Winding resistance aux	**14 Ohm**
Oil quantity	**506 / 17.11fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**1,510 cm3 / 51.06fl.oz**	Max. discharge temp.	**130°C / 266°F**
Motor protection	**internal**		

Compressor Dimensions

Housing

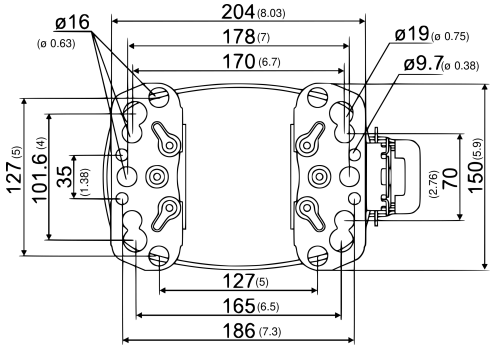
A Height	**219mm / 8.62in**
B Height	**213mm / 8.39in**
C Length shell	**218mm / 8.58in**
D Length w. cover	**255mm / 10.04in**
E Width	**151mm / 5.94in**

Find 3D Model here



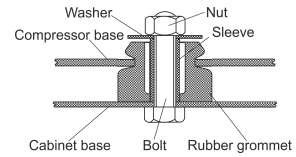
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 10.11–10.29 / 0.40–0.41in	øi 6.11–6.29 / 0.24–0.25in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	143°
Vertical angle ±2°	30°	0°	150°
Position l/h/w [mm]	107/193/55 / 4.21/7.60/2.17in	115/110/63 / 4.53/4.33/2.48in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

Mounting Accessories

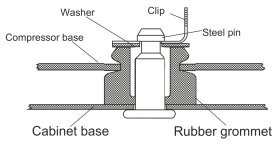


Dimensions in mm [in]

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
SC15CL Configuration 1

Sales code:
104L2853

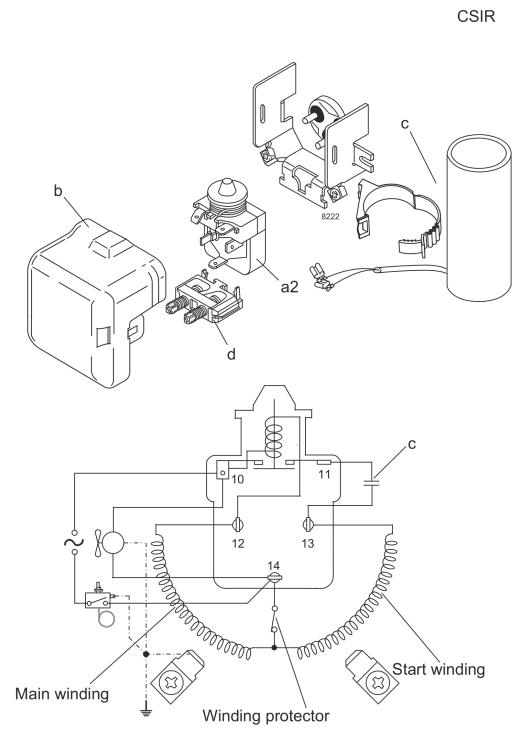
Configuration

Motor configuration	**CSIR**
Power supply (nominal)	**220-240 V/50 Hz 1~**
Refrigerant	**R404A**
Application	**LBP+MBP**
Voltage range	**198-254 V**
Starting torque	**HST**
Approvals	**VDE, CCC, EAC**
Starting device type	**relay**
Run capacitor	**-/-**
Start capacitor	**80 µF**
LRA (locked rotor amps / 4s/ U(N))	**20.43 A**
RLA (rated load amps / 1s/ U(N))	**3.9 A**
Cut in current (U(N))	**20.43 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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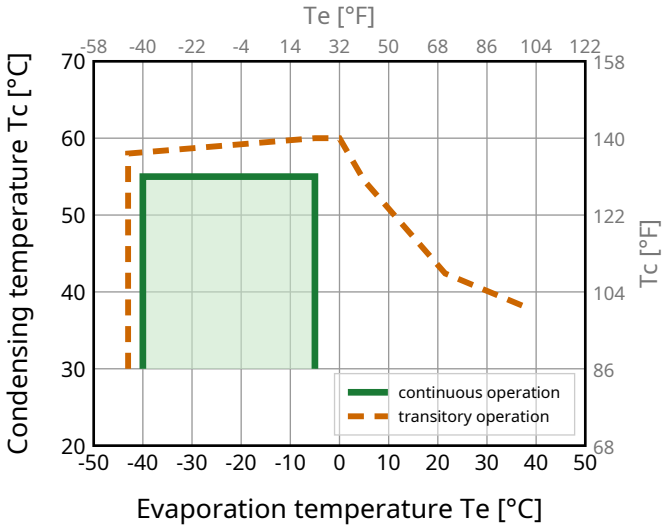
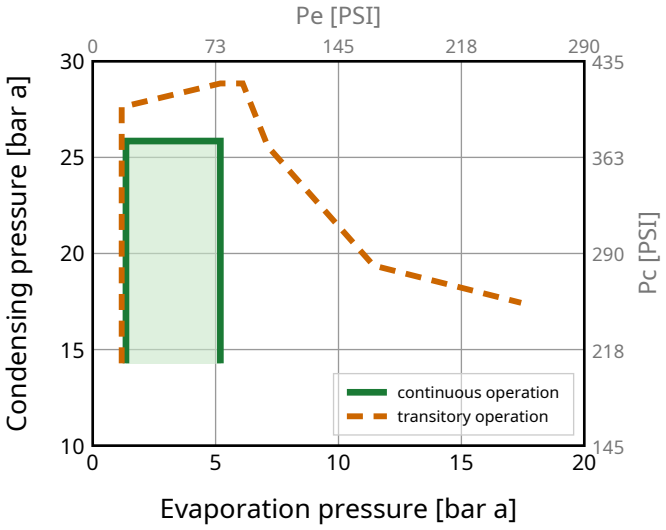
Components
a2 relay 117U6019
c start capacitor (80µF) 117U5017
d cord relief 103N1004
b plastic cover 103N2009

Operation Pressure Range





Model
SC15CL Configuration 1

Sales code:
104L2853

Standard Conditions

R404A, 220 V/50 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]	
-23.3 -10	54.4 129.9	32.2 90	32.2 90	**708**	2414	609	**1.19**	4.07	593	3.60	16.45	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**472**	1611	406	**0.83**	2.84	567	3.50	14.72	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**361**	1232	311	**0.85**	2.90	425	3.03	9.79	**EN12900 LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**1340**	4571	1152	**1.50**	5.13	891	4.78	36.80	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**1004**	3426	864	**1.22**	4.17	822	4.49	32.10	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**1134**	3871	976	**1.45**	4.94	784	4.33	34.11	**EN12900 MBP**

Performance Tables

R404A, 220 V/50 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]
-40	-40	**217**	739	186	**0.56**	1.92	385	2.92	5.76
-35	-31	**329**	1122	283	**0.75**	2.55	441	3.08	8.77
-30	-22	**459**	1565	394	**0.93**	3.16	496	3.25	12.28
-25	-13	**609**	2077	523	**1.10**	3.75	554	3.44	16.38
-20	-4	**781**	2665	672	**1.26**	4.31	619	3.67	21.15
-15	5	**978**	3339	842	**1.41**	4.81	694	3.96	26.68
-10	14	**1204**	4106	1035	**1.53**	5.24	784	4.33	33.09
-5	23	**1458**	4976	1254	**1.64**	5.58	892	4.79	40.49

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

-40	-40	**106**	363	92	**0.31**	1.06	341	2.76	3.27
-35	-31	**214**	730	184	**0.51**	1.74	419	3.01	6.60
-30	-22	**335**	1143	288	**0.68**	2.32	493	3.25	10.39
-25	-13	**472**	1611	406	**0.83**	2.84	567	3.50	14.72
-20	-4	**628**	2142	540	**0.98**	3.33	643	3.78	19.71
-15	5	**804**	2744	692	**1.11**	3.77	727	4.10	25.46
-10	14	**1004**	3426	864	**1.22**	4.17	822	4.49	32.10
-5	23	**1230**	4197	1058	**1.32**	4.51	930	4.96	39.76

Model
SC15CL Configuration 2

Sales code:
104L2853

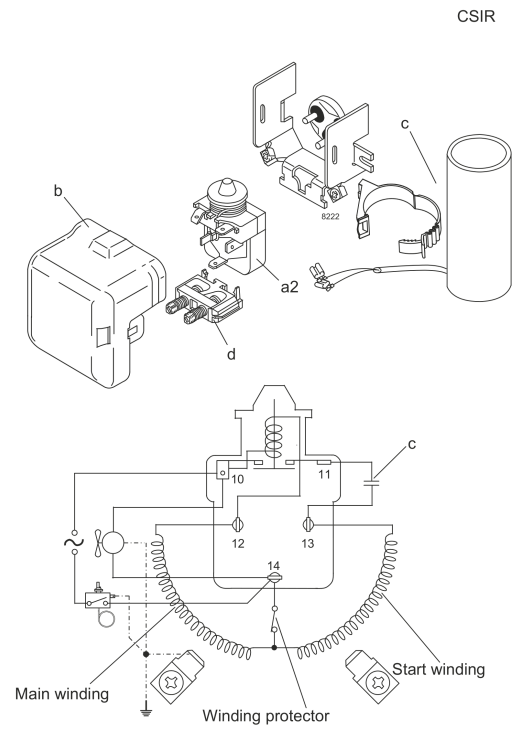
Configuration

Motor configuration	**CSIR**
Power supply (nominal)	**220-240 V/50 Hz 1~**
Refrigerant	**R452A**
Application	**LBP+MBP**
Voltage range	**198-254 V**
Starting torque	**HST**
Approvals	**VDE, CCC**
Starting device type	**relay**
Run capacitor	**-/-**
Start capacitor	**80 µF**
LRA (locked rotor amps / 4s/ U(N))	**20.43 A**
RLA (rated load amps / 1s/ U(N))	**3.9 A**
Cut in current (U(N))	**20.43 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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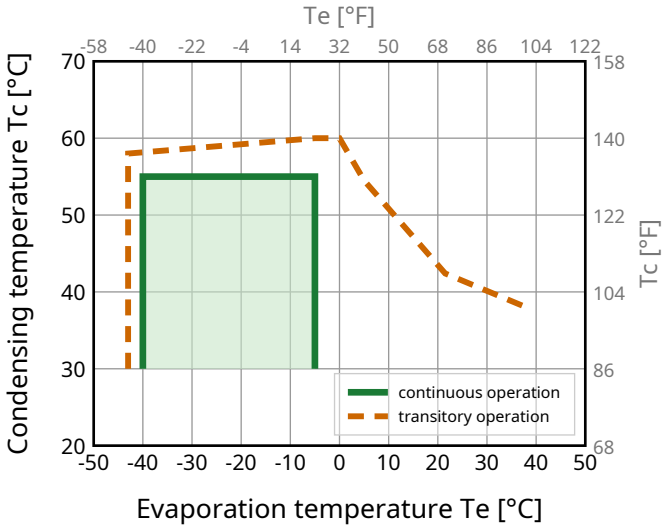
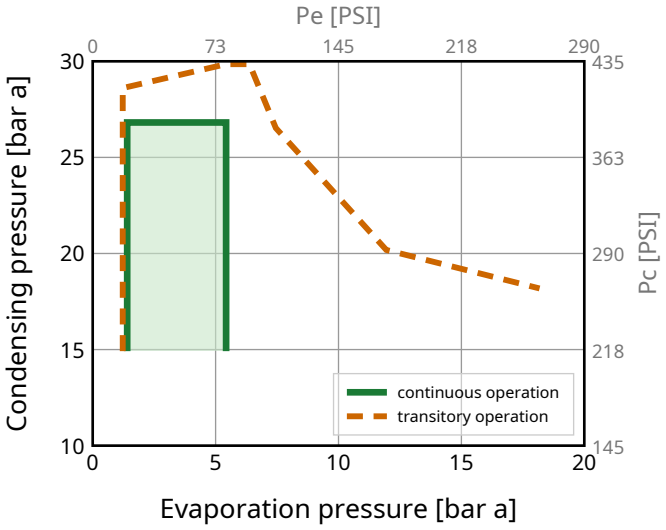
Components
a2 relay 117U6019
c start capacitor (80µF) 117U5017
d cord relief 103N1004
b plastic cover 103N2009

Operation Pressure Range





Model
SC15CL Configuration 2

Sales code:
104L2853

Standard Conditions

R452A, 220 V/50 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]	
-23.3 -10	54.4 129.9	32.2 90	32.2 90	**651**	2222	560	**1.18**	4.02	553	3.45	15.76	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**436**	1486	375	**0.83**	2.82	526	3.36	14.05	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**326**	1112	280	**0.83**	2.85	391	2.93	9.18	**EN12900 LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**1270**	4334	1092	**1.50**	5.12	847	4.59	36.24	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**952**	3247	818	**1.22**	4.17	778	4.31	31.45	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**1071**	3653	921	**1.44**	4.91	743	4.16	33.40	**EN12900 MBP**

Performance Tables

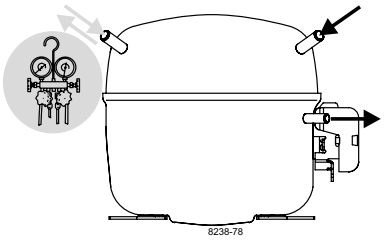
R452A, 220 V/50 Hz, CSIR, fan 3m/s

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]
-40	-40	**193**	659	166	**0.55**	1.87	352	2.84	5.33
-35	-31	**297**	1013	255	**0.73**	2.50	405	2.98	8.22
-30	-22	**418**	1428	360	**0.91**	3.11	459	3.13	11.64
-25	-13	**560**	1912	482	**1.09**	3.71	516	3.31	15.67
-20	-4	**726**	2475	624	**1.25**	4.27	580	3.53	20.41
-15	5	**916**	3125	788	**1.40**	4.77	655	3.80	25.94
-10	14	**1135**	3871	976	**1.53**	5.21	743	4.16	32.39
-5	23	**1384**	4721	1190	**1.63**	5.56	849	4.60	39.89

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

-40	-40	**94**	321	81	**0.30**	1.04	310	2.69	3.00
-35	-31	**193**	658	166	**0.50**	1.72	384	2.91	6.16
-30	-22	**306**	1043	263	**0.67**	2.29	455	3.13	9.81
-25	-13	**436**	1486	375	**0.83**	2.82	526	3.36	14.05
-20	-4	**585**	1996	503	**0.97**	3.31	602	3.62	19.00
-15	5	**756**	2579	650	**1.10**	3.77	685	3.93	24.75
-10	14	**952**	3247	818	**1.22**	4.17	778	4.31	31.45
-5	23	**1174**	4006	1010	**1.32**	4.52	886	4.76	39.24



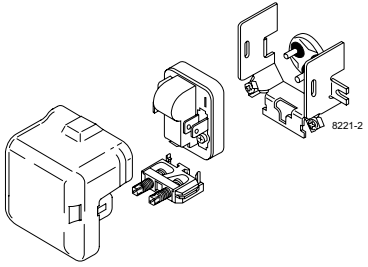
SC Compressors

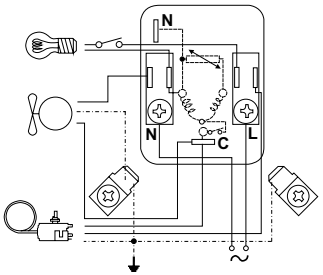
SECOP

Keep electrical equipment clear from oil, chemicals, and water

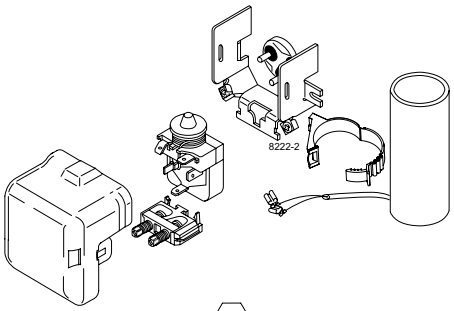
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

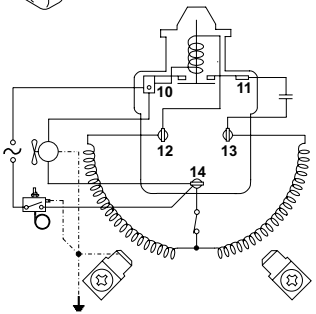
RSIR





CSIR





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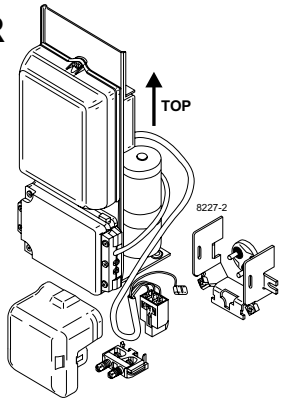
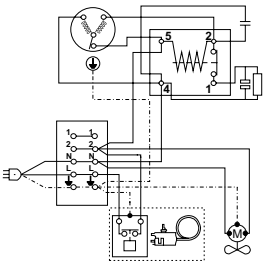
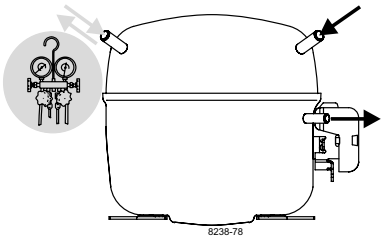






SC Compressors

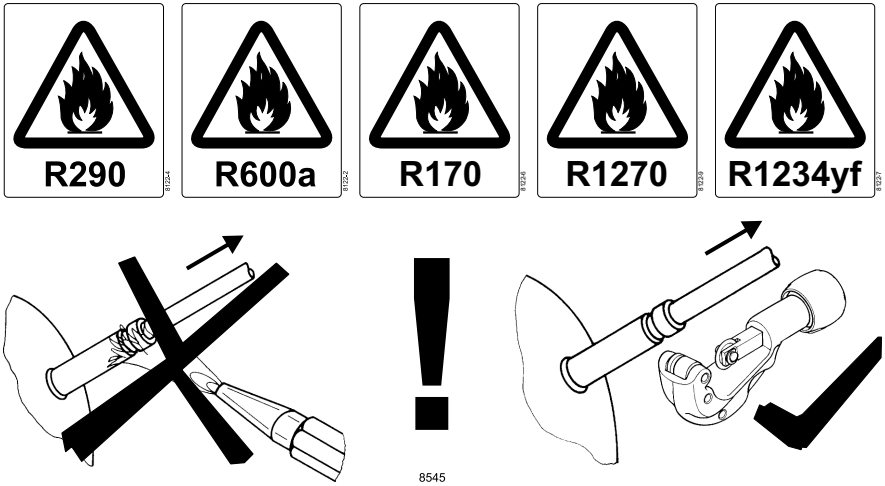
SECOP

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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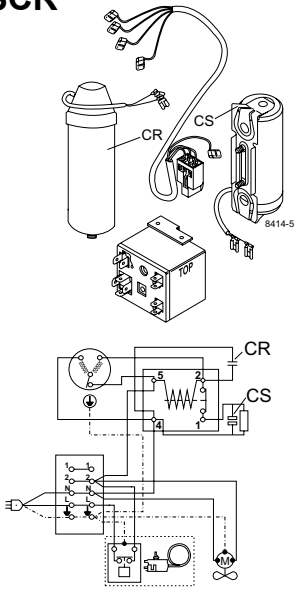

Dismantling, recycling, disposal: At the end of a compressor's lifecycle, proceed by separating and storing components according to their environmental impact. Parts that may cause pollution must be clearly identified and handled separately, ensuring appropriate disposal. Refrigerant gas must not be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