Single
Packs

SECOP

Single Pack SC18FTX 220-240V 50/60Hz CSIR

Single pack code number: **195B4480**

Position	Title	Code	Amount
1	Compressor SC18FTX	104G8805	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
SC18FTX

Sales code:
104G8805

Compressor Data

Refrigerant(s)	**R134a**
Refr. charge - tech. limit	**1300g / 45.86oz**
Weight	**13.80 kg / 30.42lbs**
Displacement	**17.69 cm3 / 1.08cu.in**
Compressors on pallet	**80**

General – Configurations With SC18FTX

–	**Conf. 1**	**Conf. 2**
Motor configuration	CSIR	CSIR
Power supply (nominal)	220-240 V/50 Hz	208-230 V/60 Hz
Number of phases	1	1
Voltage range	187-254 V	198-254 V
Approvals	CCC, EAC, VDE, KC	CCC, EAC, VDE, KC
Starting torque	HST	HST
Refrigerant	R134a	R134a
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
SC18FTX

Sales code:
104G8805

Compressor Design

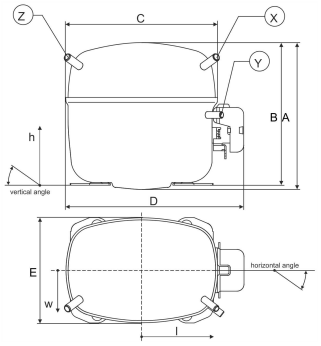
Oil type	**POE**	Winding resistance main	**3.7 Ohm**
Oil viscosity	**22cSt**	Winding resistance aux	**14 Ohm**
Oil quantity	**550 / 18.60fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**1,460 cm3 / 49.37fl.oz**	Max. discharge temp.	**135°C / 275°F**
Motor protection	**internal**		

Compressor Dimensions

Housing

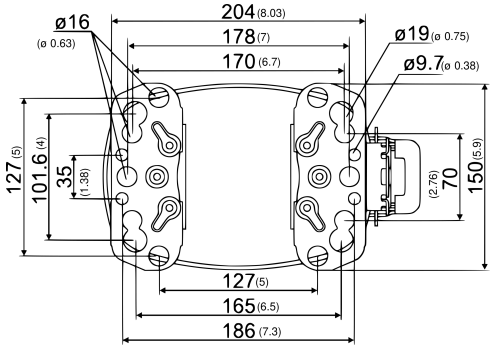
A Height	**219mm / 8.62in**
B Height	**213mm / 8.39in**
C Length shell	**218mm / 8.58in**
D Length w. cover	**255mm / 10.04in**
E Width	**151mm / 5.94in**

Find 3D Model here



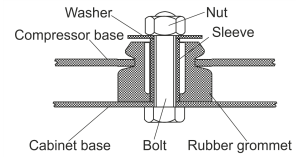
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 10.11–10.29 / 0.40–0.41in	øi 6.11–6.29 / 0.24–0.25in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	143°
Vertical angle ±2°	30°	0°	150°
Position l/h/w [mm]	107/193/55 / 4.21/7.60/2.17in	115/110/63 / 4.53/4.33/2.48in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

Mounting Accessories

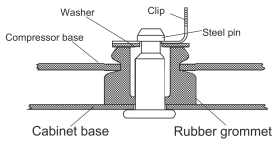


Dimensions in mm [in]

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
SC18FTX Configuration 1

Sales code:
104G8805

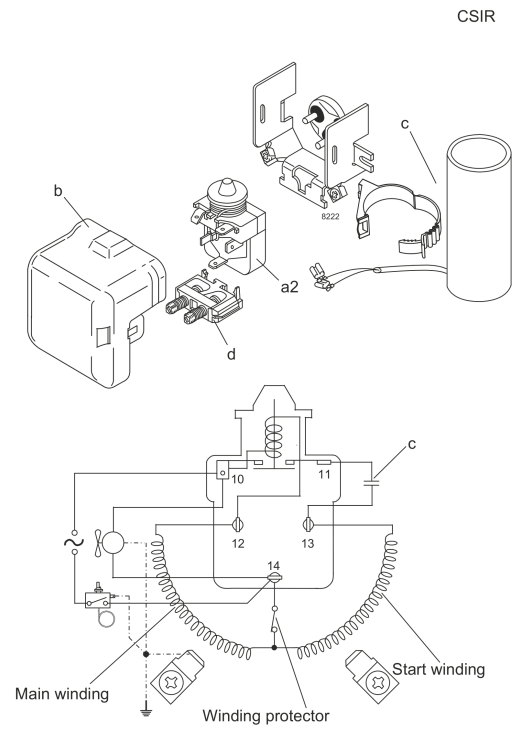
Configuration

Motor configuration	**CSIR**
Power supply (nominal)	**220-240 V/50 Hz 1~**
Refrigerant	**R134a**
Application	**LBP**
Voltage range	**187-254 V**
Starting torque	**HST**
Approvals	**CCC, EAC, VDE, KC**
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 - 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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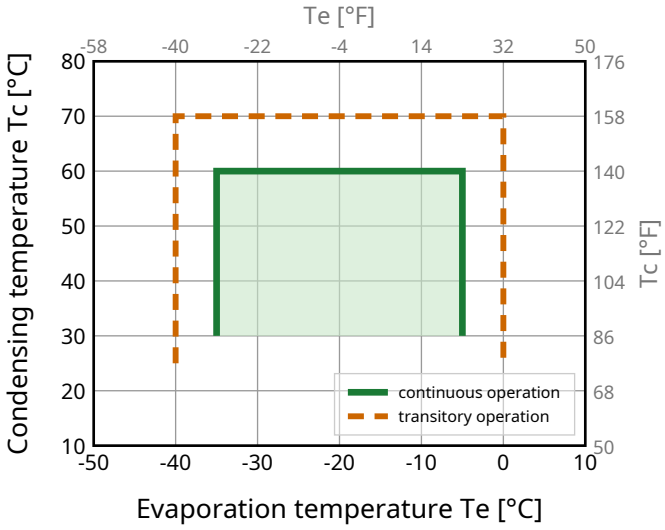
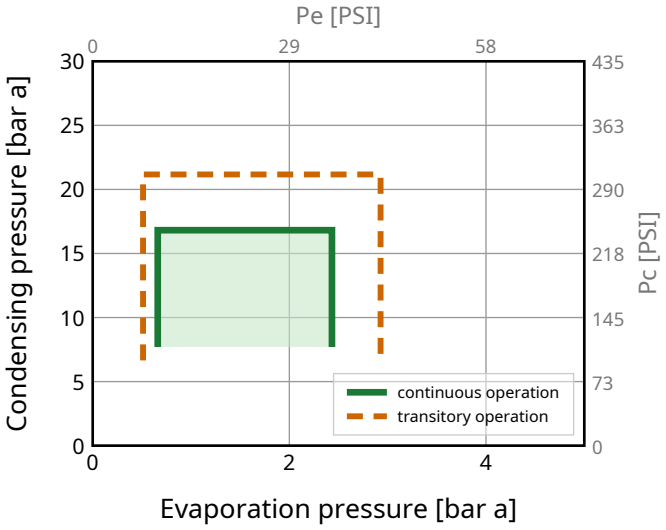
Components
a2 relay 117U6019
c start capacitor (80µF) 117U5017
d cord relief 103N1004
b plastic cover 103N2009

Operation Pressure Range





Model
SC18FTX Configuration 1

Sales code:
104G8805

Standard Conditions

R134a, 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	**447**	1524	384	**1.17**	3.98	383	2.94	8.67	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**325**	1109	280	**0.89**	3.03	365	2.87	7.75	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**217**	740	187	**0.79**	2.71	273	2.56	4.75	**EN12900 LBP**
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	**374**	1274	321	**0.98**	3.35	381	2.93	9.80	**ARI540 LBP**
-23.3 -10	40.6 105.1	32.2 90	32.2 90	**503**	1717	433	**1.36**	4.65	369	2.91	9.77	**AHAM LBP**
-35 -31	45 113	32 89.6	45 113	**199**	679	171	**0.73**	2.50	272	2.56	4.29	**opt LBP**

Performance Tables

R134a, 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]
-35	-31	**199**	679	171	**0.73**	2.50	272	2.56	4.29
-30	-22	**286**	976	246	**0.90**	3.07	318	2.71	6.17
-25	-13	**393**	1342	338	**1.09**	3.71	362	2.87	8.51
-20	-4	**524**	1788	451	**1.29**	4.41	405	3.04	11.36
-15	5	**682**	2326	586	**1.51**	5.17	450	3.22	14.83
-10	14	**869**	2965	747	**1.75**	5.95	498	3.42	18.98
-5	23	**1090**	3717	937	**1.98**	6.76	550	3.63	23.91

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

-35	-31	**144**	492	124	**0.56**	1.91	257	2.52	3.42
-30	-22	**229**	780	197	**0.73**	2.49	313	2.69	5.44
-25	-13	**325**	1109	280	**0.89**	3.03	365	2.87	7.75
-20	-4	**437**	1490	376	**1.05**	3.58	416	3.07	10.44
-15	5	**567**	1934	488	**1.22**	4.15	466	3.27	13.61
-10	14	**719**	2453	618	**1.39**	4.74	517	3.49	17.33
-5	23	**896**	3056	770	**1.57**	5.35	571	3.72	21.71

Model
SC18FTX Configuration 2

Sales code:
104G8805

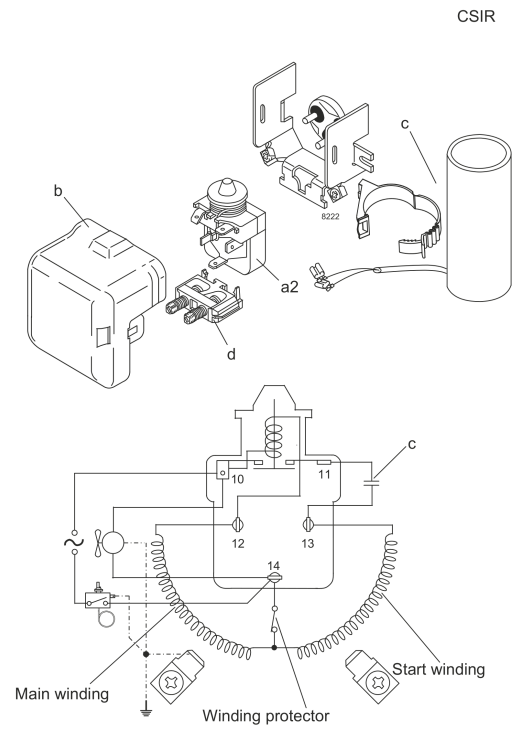
Configuration

Motor configuration	**CSIR**
Power supply (nominal)	**208-230 V/60 Hz 1~**
Refrigerant	**R134a**
Application	**LBP**
Voltage range	**198-254 V**
Starting torque	**HST**
Approvals	**CCC, EAC, VDE, KC**
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 - 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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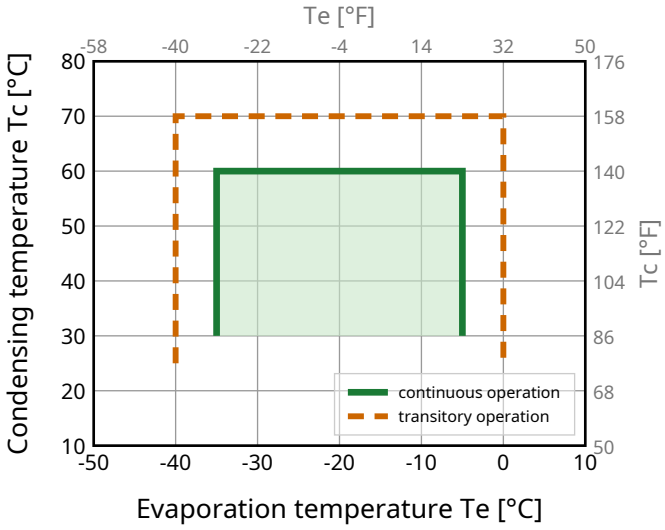
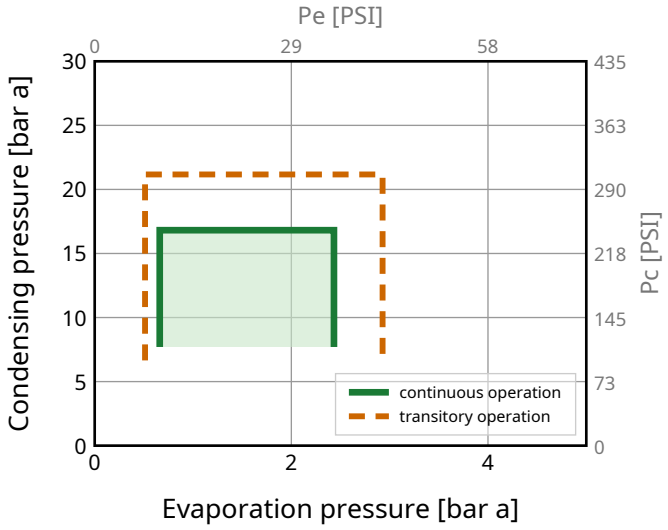
Components
a2 relay 117U6019
c start capacitor (80µF) 117U5017
d cord relief 103N1004
b plastic cover 103N2009

Operation Pressure Range





Model
SC18FTX Configuration 2

Sales code:
104G8805

Standard Conditions

R134a, 220 V/60 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	**534**	1822	459	**1.20**	4.10	444	2.77	10.36	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**390**	1330	335	**0.93**	3.17	420	2.66	9.29	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**280**	954	240	**0.91**	3.09	308	2.20	6.11	**EN12900 LBP**
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	**450**	1535	387	**1.01**	3.45	444	2.77	11.80	**ARI540 LBP**
-23.3 -10	40.6 105.1	32.2 90	32.2 90	**619**	2113	533	**1.40**	4.79	441	2.76	12.02	**AHAM LBP**
-35 -31	45 113	32 89.6	45 113	**254**	865	218	**0.85**	2.89	299	2.16	5.46	**opt LBP**

Performance Tables

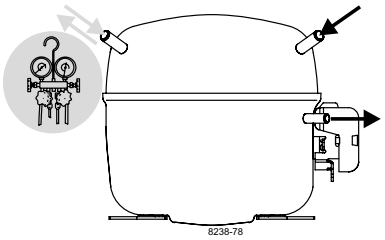
R134a, 220 V/60 Hz, CSIR, fan 3m/s

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]
-35	-31	**254**	865	218	**0.85**	2.89	299	2.16	5.46
-30	-22	**354**	1209	305	**0.98**	3.34	362	2.42	7.64
-25	-13	**480**	1636	412	**1.13**	3.87	423	2.68	10.37
-20	-4	**634**	2162	545	**1.31**	4.48	483	2.94	13.74
-15	5	**820**	2798	705	**1.52**	5.17	541	3.21	17.84
-10	14	**1042**	3556	896	**1.74**	5.95	598	3.48	22.76
-5	23	**1304**	4450	1122	**2.00**	6.81	654	3.75	28.62

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

-35	-31	**187**	637	161	**0.68**	2.32	274	2.06	4.43
-30	-22	**280**	955	241	**0.80**	2.74	348	2.36	6.66
-25	-13	**390**	1330	335	**0.93**	3.17	420	2.66	9.29
-20	-4	**520**	1775	447	**1.06**	3.63	489	2.97	12.44
-15	5	**675**	2302	580	**1.21**	4.14	556	3.28	16.20
-10	14	**857**	2925	737	**1.38**	4.70	622	3.59	20.67
-5	23	**1071**	3655	921	**1.56**	5.33	686	3.90	25.96



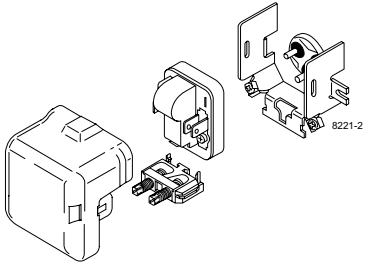
SC Compressors

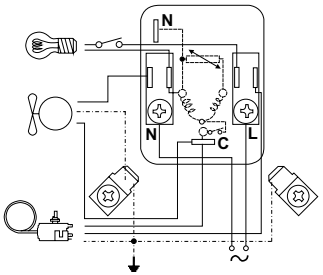
SECOP

Keep electrical equipment clear from oil, chemicals, and water

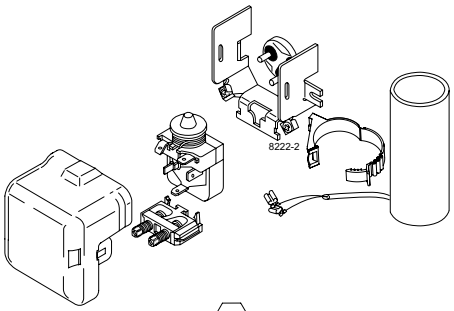
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

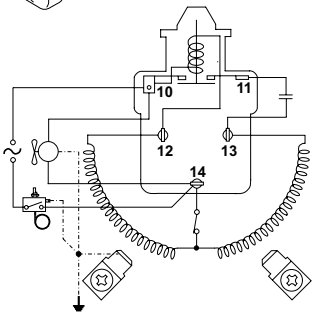
RSIR



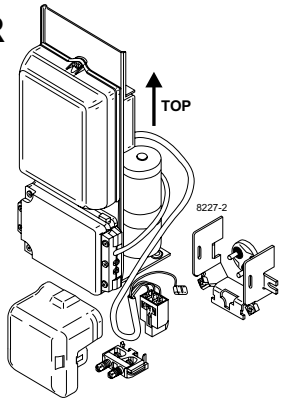


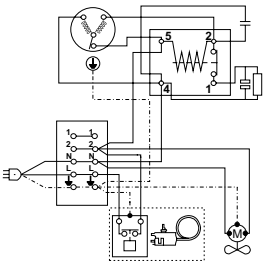
CSIR

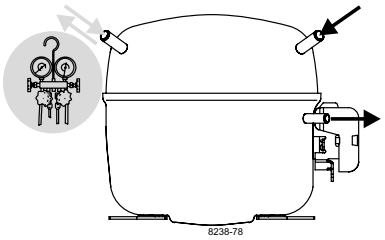




CSCR







SC Compressors

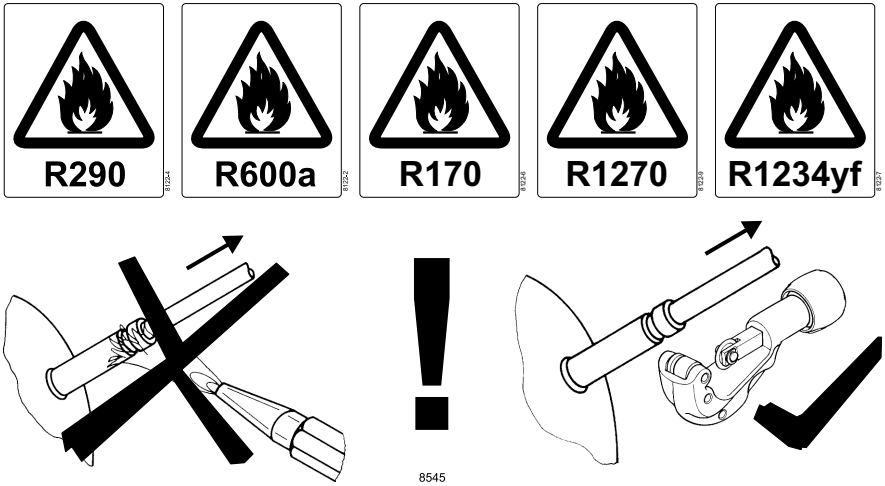
SECOP

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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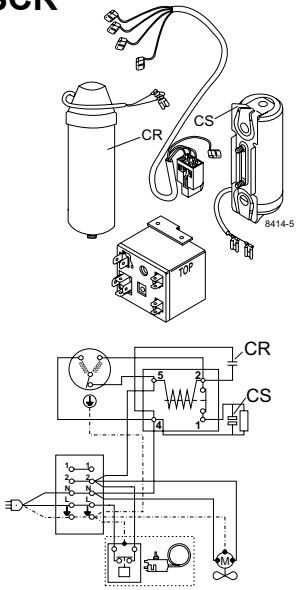

Dismantling, recycling, disposal: At the end of a compressor's lifecycle, proceed by separating and storing components according to their environmental impact. Parts that may cause pollution must be clearly identified and handled separately, ensuring appropriate disposal. Refrigerant gas must not be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