Single
Packs

Single Pack SC15FTX 100-127V 60Hz CSIR

Single pack code number: **195B4138**

Position	Title	Code	Amount
1	Compressor SC15FTX	104G7505	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
SC15FTX

Sales code:
104G7505

Compressor Data

Refrigerant(s)	**R134a**
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 SC15FTX

–	**Conf. 1**	**Conf. 2**
Motor configuration	CSIR	CSIR
Power supply (nominal)	115 V/60 Hz	100-115 V/50 Hz
Number of phases	1	1
Voltage range	90-135 V	90-110 V
Approvals	UL	UL
Starting torque	HST	HST
Refrigerant	R134a	R134a
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
SC15FTX

Sales code:
104G7505

Compressor Design

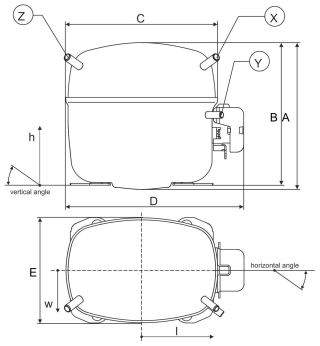
Oil type	**POE**	Winding resistance main	**1 Ohm**
Oil viscosity	**22cSt**	Winding resistance aux	**4.2 Ohm**
Oil quantity	**550 / 18.60fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**1,460 cm3 / 49.37fl.oz**	Max. discharge temp.	**140°C / 284°F**
Motor protection	**internal**		

Compressor Dimensions

Housing

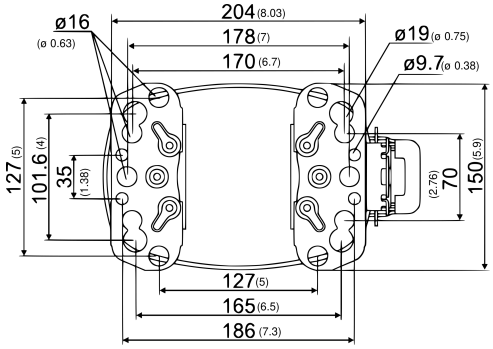
A Height	**209mm / 8.23in**
B Height	**203mm / 7.99in**
C Length shell	**218mm / 8.58in**
D Length w. cover	**255mm / 10.04in**
E Width	**151mm / 5.94in**

Find 3D Model here



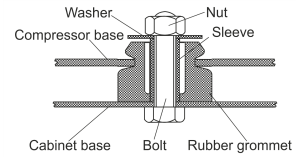
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.41–6.59 / 0.25–0.26in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	143°
Vertical angle ±2°	30°	0°	150°
Position l/h/w [mm]	107/183/55 / 4.21/7.20/2.17in	115/100/63 / 4.53/3.94/2.48in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

Mounting Accessories

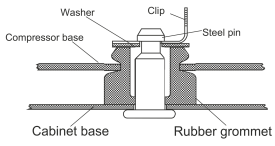


Dimensions in mm [in]

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
SC15FTX Configuration 1

Sales code:
104G7505

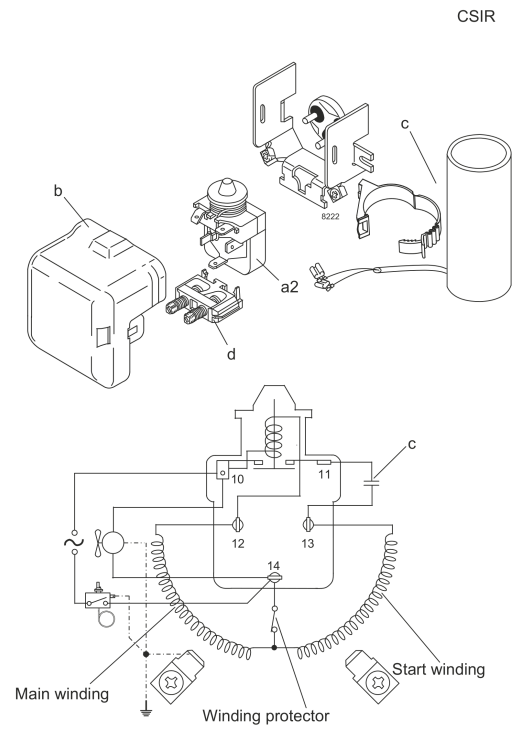
Configuration

Motor configuration	**CSIR**
Power supply (nominal)	**115 V/60 Hz 1~**
Refrigerant	**R134a**
Application	**LBP+MBP**
Voltage range	**90-135 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 3m/s

Electrical Accessories / Wiring Diagram



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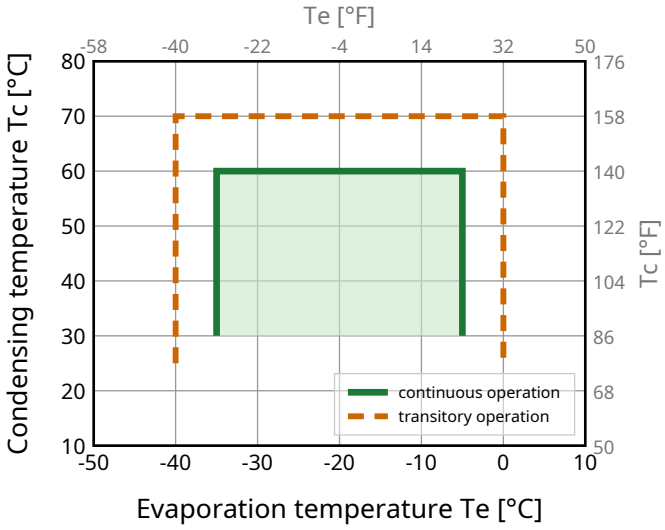
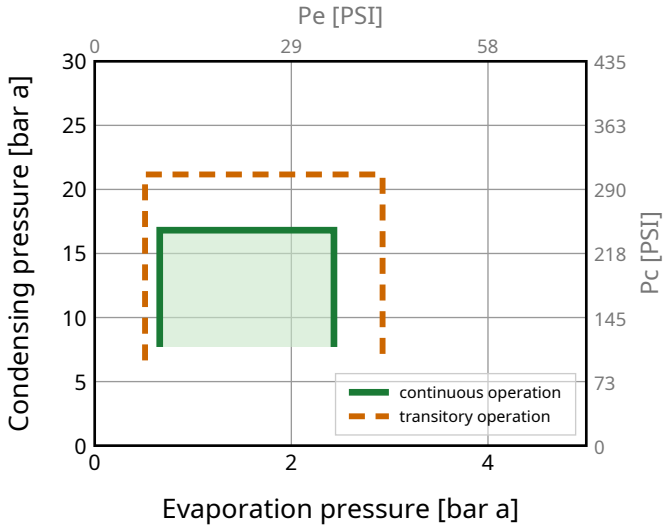
Components
a2 relay 117U6020
c start capacitor (240µF) 117U5023
d cord relief 103N1004
b plastic cover 103N2008

Operation Pressure Range





Model Sales code:

SC15FTX Configuration 1 **104G7505**

Standard Conditions

R134a, 115 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	**455**	1551	391	**1.12**	3.82	406	5.75	8.82	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**332**	1134	286	**0.87**	2.98	381	5.62	7.92	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**234**	798	201	**0.83**	2.83	282	4.98	5.12	**EN12900 LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**923**	3150	794	**1.46**	4.98	632	7.38	20.10	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**722**	2463	621	**1.23**	4.19	588	7.07	17.40	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**804**	2744	692	**1.47**	5.03	546	6.58	18.76	**EN12900 MBP**

Performance Tables

R134a, 115 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	**216**	737	186	**0.80**	2.72	272	4.84	4.65
-30	-22	**299**	1021	257	**0.91**	3.10	329	5.13	6.46
-25	-13	**400**	1363	344	**1.04**	3.56	383	5.45	8.64
-20	-4	**520**	1774	447	**1.19**	4.07	435	5.80	11.27
-15	5	**664**	2264	571	**1.36**	4.63	489	6.17	14.43
-10	14	**833**	2843	716	**1.53**	5.21	546	6.58	18.19
-5	23	**1032**	3520	887	**1.69**	5.78	609	7.00	22.64

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

-35	-31	**158**	540	136	**0.71**	2.42	223	4.78	3.76
-30	-22	**239**	814	205	**0.78**	2.66	306	5.18	5.68
-25	-13	**332**	1134	286	**0.87**	2.98	381	5.62	7.92
-20	-4	**442**	1508	380	**0.98**	3.34	451	6.07	10.57
-15	5	**571**	1948	491	**1.10**	3.75	519	6.56	13.70
-10	14	**722**	2463	621	**1.23**	4.19	588	7.07	17.40
-5	23	**898**	3064	772	**1.36**	4.65	659	7.61	21.76

Model
SC15FTX Configuration 2

Sales code:
104G7505

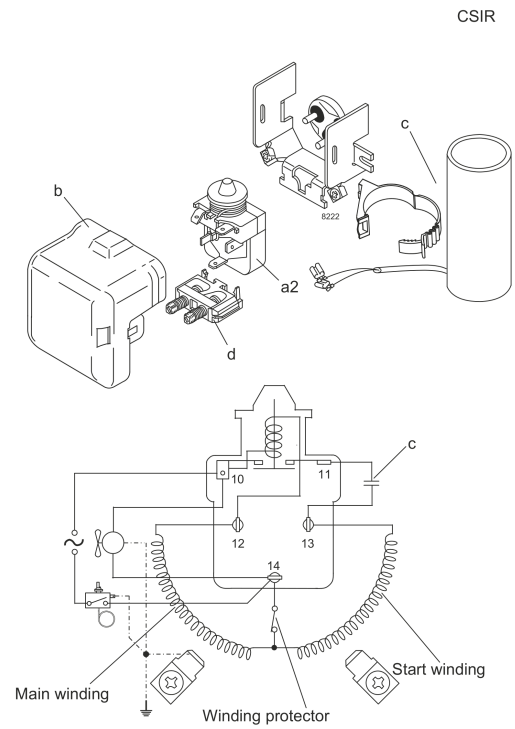
Configuration

Motor configuration	**CSIR**
Power supply (nominal)	**100-115 V/50 Hz 1~**
Refrigerant	**R134a**
Application	**LBP+MBP**
Voltage range	**90-110 V**
Starting torque	**HST**
Approvals	**UL**
Starting device type	**relay**
Run capacitor	**-/-**
Start capacitor	**240 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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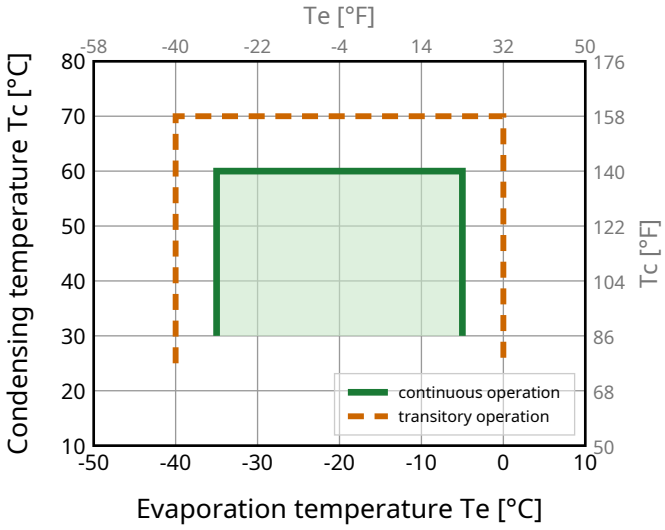
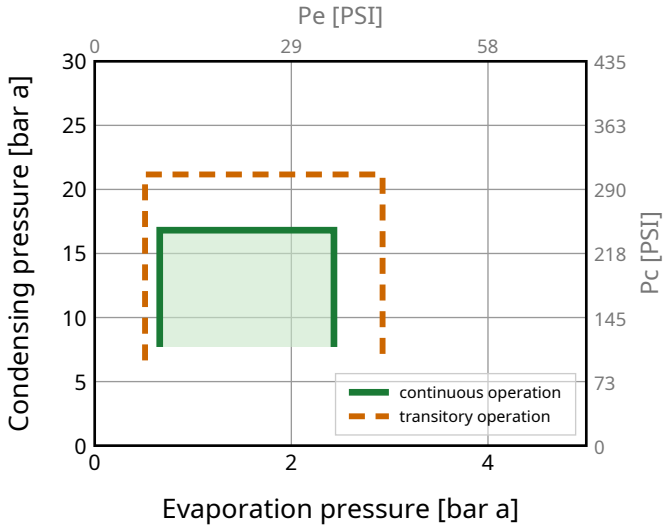
Components
a2 relay 117U6020
c start capacitor (240µF) 117U5023
d cord relief 103N1004
b plastic cover 103N2008

Operation Pressure Range





Model Sales code:

SC15FTX Configuration 2 **104G7505**

Standard Conditions

R134a, 115 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	**389**	1326	334	**0.96**	3.27	406	5.75	7.54	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**284**	969	244	**0.75**	2.55	381	5.62	6.77	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**200**	682	172	**0.71**	2.42	282	4.98	4.38	**EN12900 LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**789**	2692	679	**1.25**	4.26	632	7.38	17.18	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**617**	2105	531	**1.05**	3.58	588	7.07	14.88	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**687**	2345	591	**1.26**	4.30	546	6.58	16.03	**EN12900 MBP**

Performance Tables

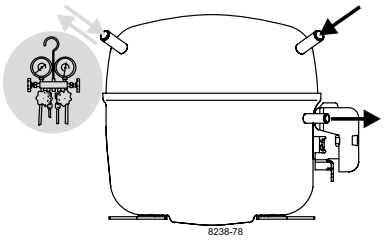
R134a, 115 V/50 Hz, CSIR, fan 3m/s

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	**185**	630	159	**0.68**	2.32	272	4.84	3.98
-30	-22	**256**	873	220	**0.78**	2.65	329	5.13	5.52
-25	-13	**342**	1165	294	**0.89**	3.04	383	5.45	7.38
-20	-4	**444**	1516	382	**1.02**	3.48	435	5.80	9.64
-15	5	**567**	1935	488	**1.16**	3.96	489	6.17	12.34
-10	14	**712**	2429	612	**1.30**	4.45	546	6.58	15.55
-5	23	**882**	3009	758	**1.45**	4.94	609	7.00	19.35

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

-35	-31	**135**	462	116	**0.61**	2.07	223	4.78	3.21
-30	-22	**204**	696	175	**0.67**	2.28	306	5.18	4.85
-25	-13	**284**	969	244	**0.75**	2.55	381	5.62	6.77
-20	-4	**378**	1289	325	**0.84**	2.86	451	6.07	9.04
-15	5	**488**	1665	420	**0.94**	3.21	519	6.56	11.71
-10	14	**617**	2105	531	**1.05**	3.58	588	7.07	14.88
-5	23	**768**	2619	660	**1.16**	3.97	659	7.61	18.60



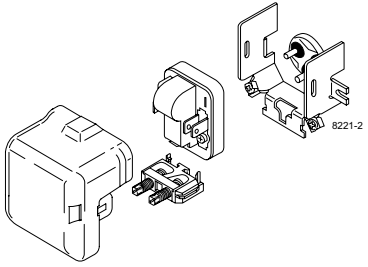
SC Compressors

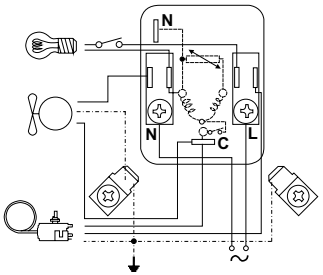
SECOP

Keep electrical equipment clear from oil, chemicals, and water

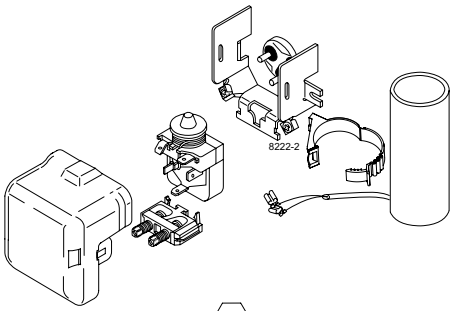
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

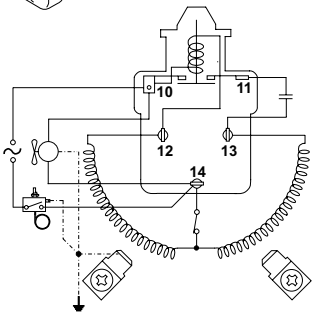
RSIR



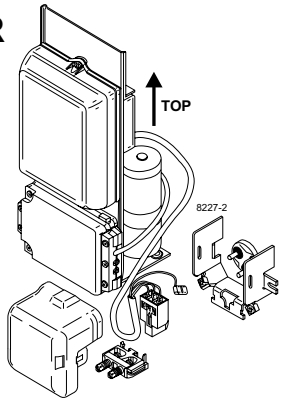


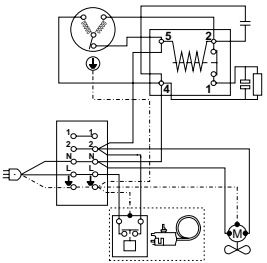
CSIR

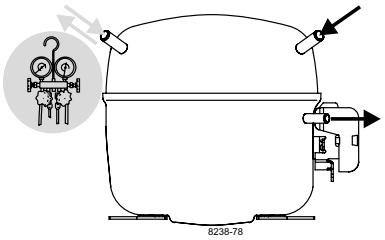




CSCR







SC Compressors

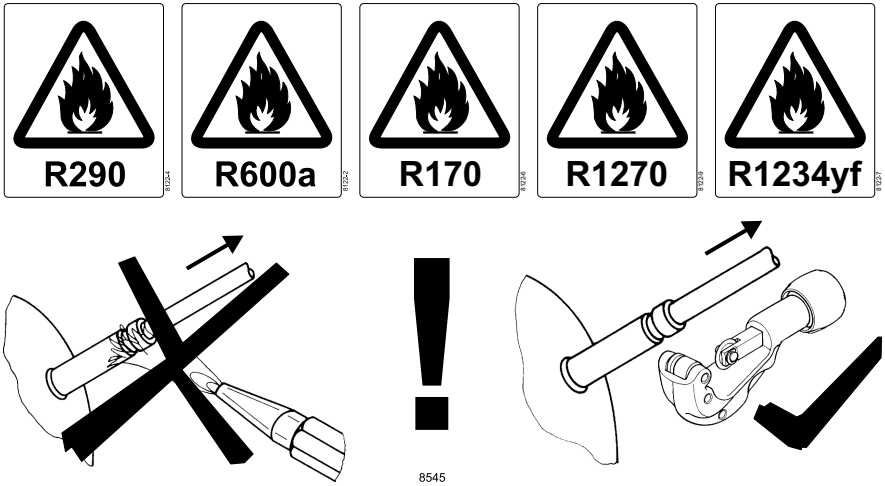
SECOP

Keep electrical equipment clear from oil, chemicals, and water

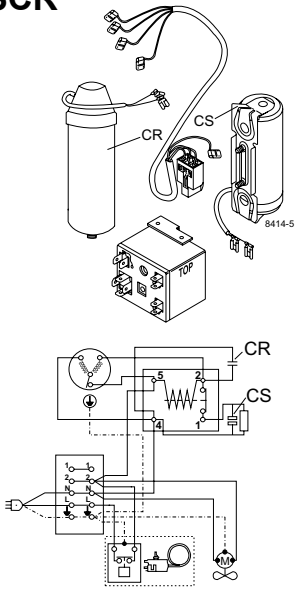
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

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

(applies to all flammable refrigerants)



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**