Single
Packs

Single Pack SC15G 220-240V 50/60Hz CSIR

Single pack code number: **195B4506**

Position	Title	Code	Amount
1	Compressor SC15G	104G8525	1
2	Starting relay	117U6005	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
SC15G

Sales code:
104G8525

Compressor Data

Refrigerant(s)	**R134a**
Refr. charge - tech. limit	**1300g / 45.86oz**
Weight	**13.70 kg / 30.20lbs**
Displacement	**15.28 cm3 / 0.93cu.in**
Compressors on pallet	**80**

General – Configurations With SC15G

–	**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	VDE, CCC, KC	VDE, CCC, KC
Starting torque	HST	HST
Refrigerant	R134a	R134a
Application	LBP+MBP+HBP	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
SC15G

Sales code:
104G8525

Compressor Design

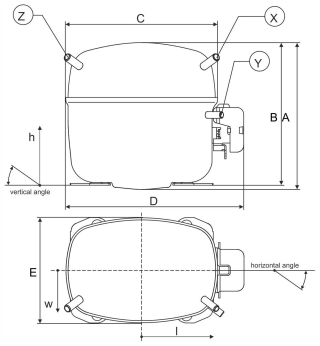
Oil type	**POE**	Winding resistance main	**5.13 Ohm**
Oil viscosity	**22cSt**	Winding resistance aux	**13.51 Ohm**
Oil quantity	**554 / 18.73fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**1,410 cm3 / 47.68fl.oz**	Max. discharge temp.	**130°C / 266°F**
Motor protection	**internal**		

Compressor Dimensions

Housing

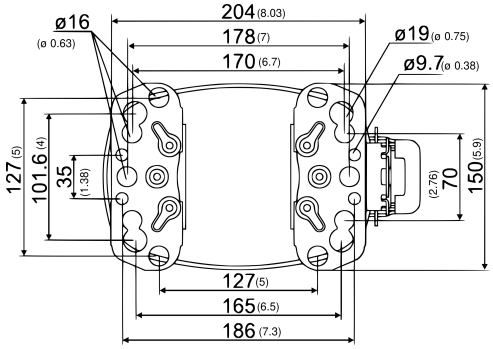
A Height	**209mm / 8.23in**
B Height	**203mm / 7.99in**
C Length shell	**218mm / 8.58in**
D Length w. cover	**255mm / 10.04in**
E Width	**151mm / 5.94in**

Find 3D Model here



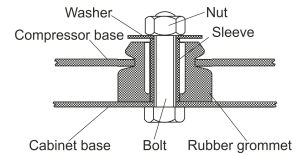
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 10.11–10.29 / 0.40–0.41in	øi 6.41–6.59 / 0.25–0.26in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	143°
Vertical angle ±2°	30°	0°	150°
Position l/h/w [mm]	107/183/55 / 4.21/7.20/2.17in	115/100/63 / 4.53/3.94/2.48in	-107/183/55 / -4.21/7.20/2.17in
Straight tube l. [mm]	12 / 0.47in	12 / 0.47in	12 / 0.47in

Mounting Accessories

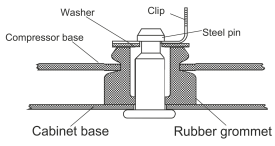


Dimensions in mm [in]

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
SC15G Configuration 1

Sales code:
104G8525

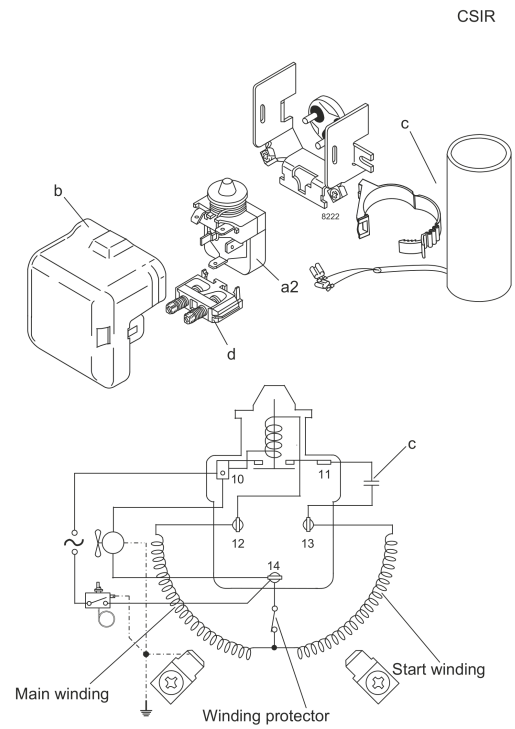
Configuration

Motor configuration	**CSIR**
Power supply (nominal)	**220-240 V/50 Hz 1~**
Refrigerant	**R134a**
Application	**LBP+MBP+HBP**
Voltage range	**187-254 V**
Starting torque	**HST**
Approvals	**VDE, CCC, KC**
Starting device type	**relay**
Run capacitor	**-/-**
Start capacitor	**80 µF**
LRA (locked rotor amps / 4s/ U(N))	**16.2 A**
RLA (rated load amps / 1s/ U(N))	**3.1 A**
Cut in current (U(N))	**16.2 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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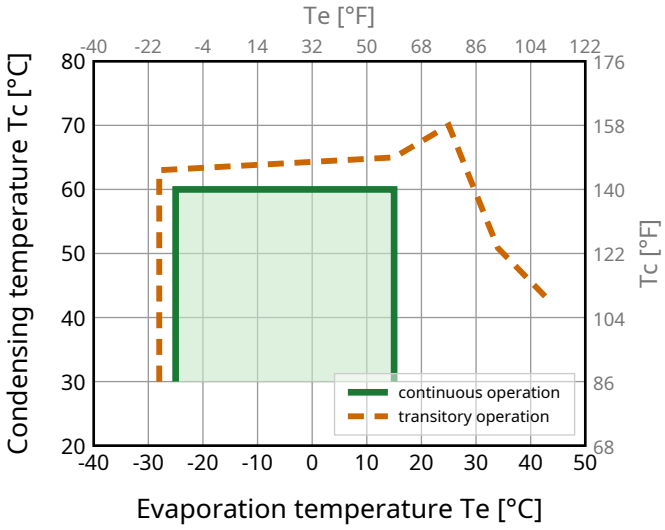
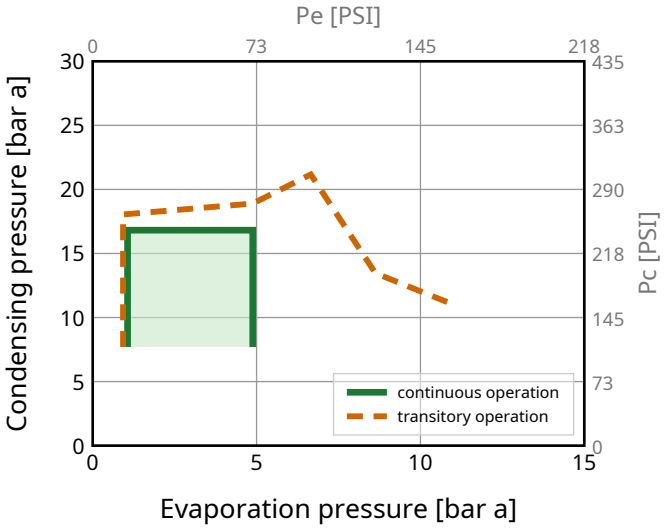
Components
a2 relay 117U6005
c start capacitor (80µF) 117U5017
d cord relief 103N1004
b plastic cover 103N2009

Operation Pressure Range





Model
SC15G Configuration 1

Sales code:
104G8525

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	**304**	1038	262	**1.10**	3.76	276	2.27	5.90	**ASHRAE LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**740**	2526	637	**1.56**	5.34	474	2.91	16.12	**ASHRAE MBP**
7.2 45	54.4 129.9	35 95	46.1 115	**1343**	4582	1155	**2.19**	7.49	612	3.50	29.73	**ASHRAE HBP**
-35 -31	40 104	20 68	40 104	**142**	483	122	**0.77**	2.61	185	1.95	3.10	**EN12900 LBP**
-10 14	45 113	20 68	45 113	**645**	2202	555	**1.58**	5.41	407	2.66	15.05	**EN12900 MBP**
5 41	50 122	20 68	50 122	**1157**	3947	995	**2.01**	6.86	575	3.30	29.02	**EN12900 HBP**

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]
-25	-13	**272**	927	234	**1.08**	3.70	251	2.19	5.88
-20	-4	**380**	1297	327	**1.27**	4.33	299	2.33	8.24
-10	14	**668**	2281	575	**1.64**	5.60	407	2.66	14.60
0	32	**1060**	3617	912	**2.07**	7.07	512	3.01	23.39
10	50	**1564**	5338	1345	**2.64**	9.01	592	3.39	35.02
15	59	**1862**	6353	1601	**3.02**	10.31	616	3.59	42.06

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

-25	-13	**214**	730	184	**0.83**	2.83	258	2.21	5.10
-20	-4	**312**	1064	268	**0.99**	3.38	315	2.40	7.46
-10	14	**566**	1931	487	**1.30**	4.43	436	2.78	13.65
0	32	**906**	3093	780	**1.65**	5.62	550	3.20	22.10
10	50	**1343**	4581	1155	**2.12**	7.22	634	3.64	33.26
15	59	**1600**	5457	1376	**2.43**	8.28	659	3.88	40.04

Model
SC15G Configuration 2

Sales code:
104G8525

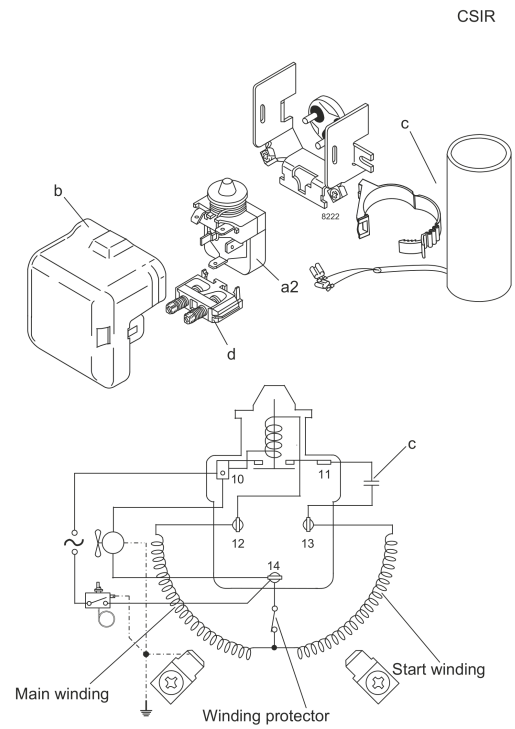
Configuration

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	**VDE, CCC, KC**
Starting device type	**relay**
Run capacitor	**-/-**
Start capacitor	**80 µF**
LRA (locked rotor amps / 4s/ U(N))	**16.2 A**
RLA (rated load amps / 1s/ U(N))	**3.1 A**
Cut in current (U(N))	**16.2 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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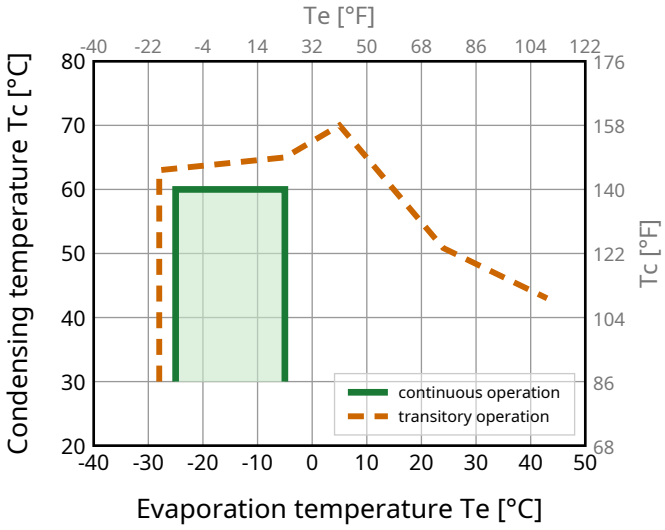
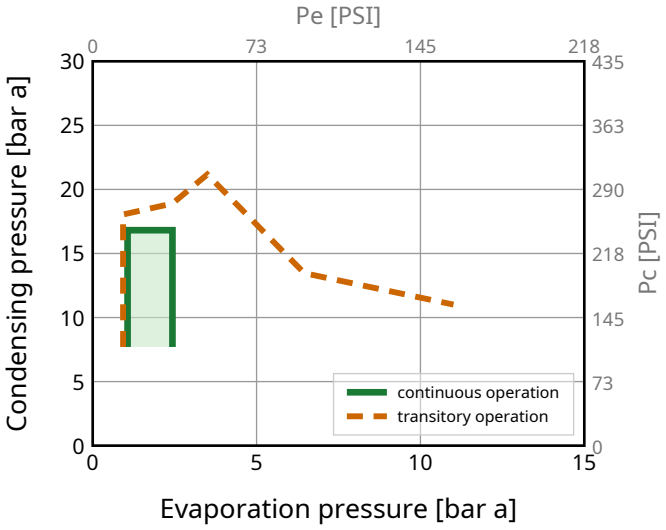
Components
a2 relay 117U6005
c start capacitor (80µF) 117U5017
d cord relief 103N1004
b plastic cover 103N2009

Operation Pressure Range





Model
SC15G Configuration 2

Sales code:
104G8525

Standard Conditions

R134a, 230 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	**370**	1264	319	**1.07**	3.64	347	2.03	7.19	**ASHRAE LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**882**	3010	759	**1.63**	5.58	540	2.73	19.21	**ASHRAE MBP**
7.2 45	54.4 129.9	35 95	46.1 115	**1561**	5327	1343	**2.27**	7.75	688	3.41	34.56	**ASHRAE HBP**
-35 -31	40 104	20 68	40 104	**168**	573	144	**0.94**	3.22	178	1.56	3.67	**EN12900 LBP**
-10 14	45 113	20 68	45 113	**786**	2682	676	**1.69**	5.76	466	2.47	18.33	**EN12900 MBP**
5 41	50 122	20 68	50 122	**1334**	4550	1147	**2.11**	7.19	633	3.17	33.45	**EN12900 HBP**

Performance Tables

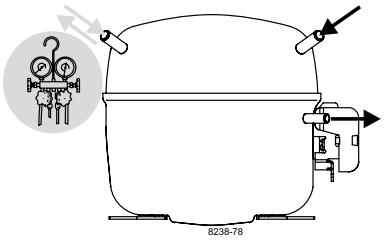
R134a, 230 V/60 Hz, CSIR, fan 3m/s

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]
-25	-13	**347**	1183	298	**1.15**	3.93	301	1.91	7.50
-20	-4	**480**	1636	412	**1.34**	4.59	357	2.08	10.40
-15	5	**635**	2168	546	**1.54**	5.26	412	2.27	13.82
-10	14	**814**	2778	700	**1.75**	5.97	466	2.47	17.78
-5	23	**1016**	3465	873	**1.97**	6.71	517	2.67	22.28

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

-25	-13	**262**	894	225	**0.79**	2.71	330	1.99	6.25
-20	-4	**376**	1285	324	**0.97**	3.31	388	2.17	9.01
-15	5	**515**	1757	443	**1.15**	3.93	447	2.37	12.36
-10	14	**677**	2310	582	**1.34**	4.57	506	2.59	16.32
-5	23	**862**	2943	742	**1.53**	5.22	563	2.82	20.90



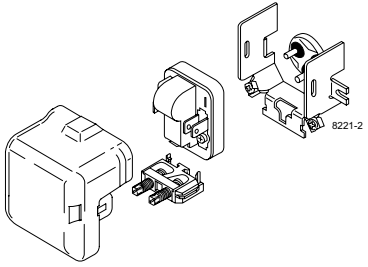
SC Compressors

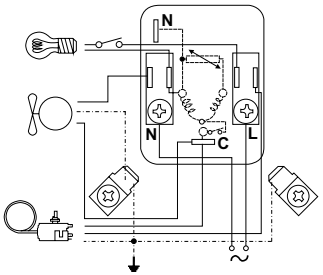
SECOP

Keep electrical equipment clear from oil, chemicals, and water

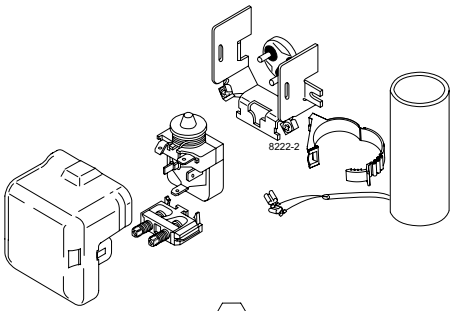
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

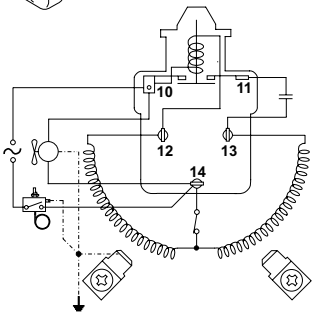
RSIR



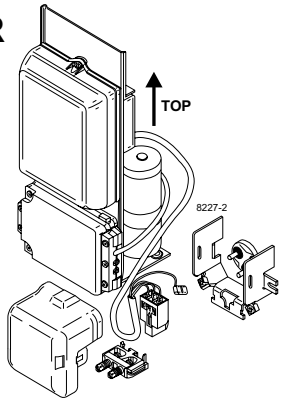


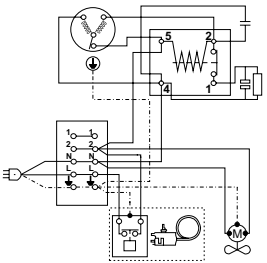
CSIR

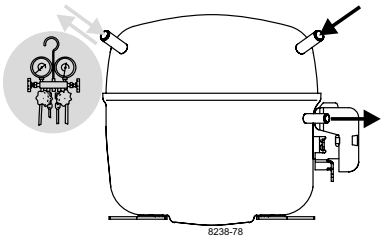




CSCR







SC Compressors

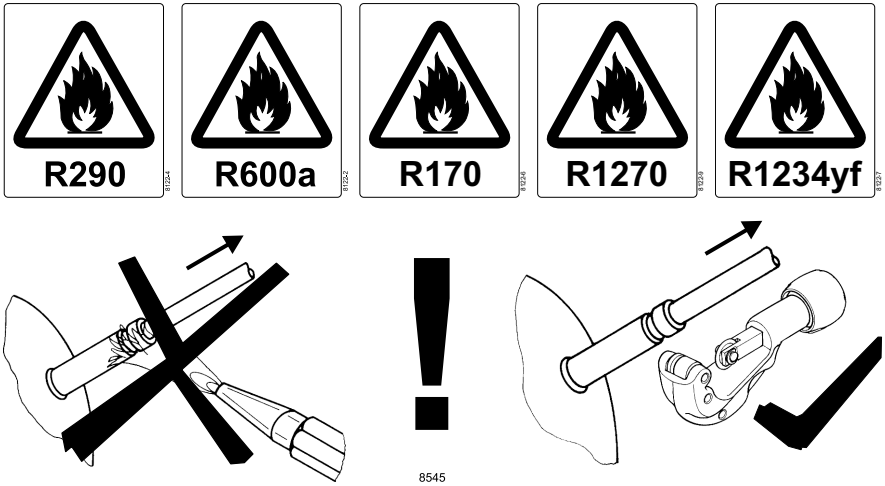
SECOP

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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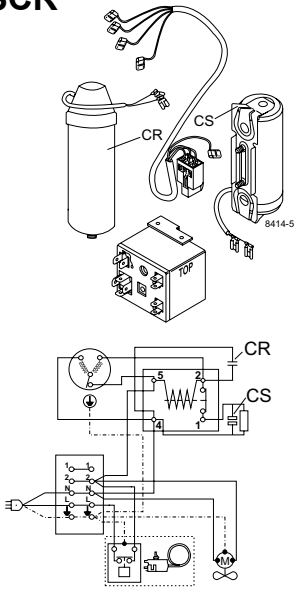

Dismantling, recycling, disposal: At the end of a compressor's lifecycle, proceed by separating and storing components according to their environmental impact. Parts that may cause pollution must be clearly identified and handled separately, ensuring appropriate disposal. Refrigerant gas must not be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