Single
Packs

Single Pack SC10CLX 220-240V 50/60Hz CSIR

Single pack code number: **195B4176**

Position	Title	Code	Amount
1	Compressor SC10CLX	104L2533	1
2	Starting relay	117U6005	1
3	Starting capacitor (80µF 220V, 6.3mm)	117U5017	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
SC10CLX

Sales code:
104L2533

Compressor Data

Refrigerant(s)	**R404A / R507**
Refr. charge - tech. limit	**1300g / 45.86oz**
Weight	**13.20 kg / 29.10lbs**
Displacement	**10.29 cm3 / 0.63cu.in**
Compressors on pallet	**80**

General – Configurations With SC10CLX

–	**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	198-254 V	198-254 V
Approvals	UL, CCC, KC	UL, CCC, KC
Starting torque	HST	HST
Refrigerant	R404A	R404A
Application	LBP+MBP	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
SC10CLX

Sales code:
104L2533

Compressor Design

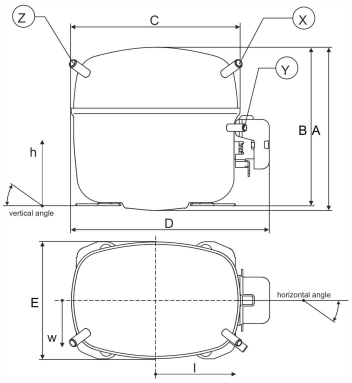
Oil type	**POE**	Winding resistance main	**5.13 Ohm**
Oil viscosity	**32cSt**	Winding resistance aux	**13.51 Ohm**
Free gas volume comp.	**1,460 cm3 / 49.37fl.oz**	Max. winding temp.	**125 °C**
Motor protection	**internal**	Max. discharge temp.	**130°C / 266°F**

Compressor Dimensions

Housing

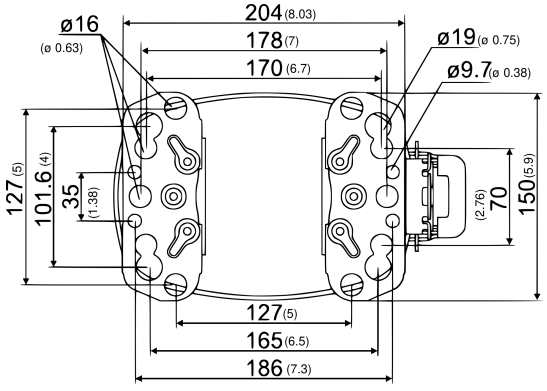
A Height	**209mm / 8.23in**
B Height	**203mm / 7.99in**
C Length shell	**218mm / 8.58in**
D Length w. cover	**255mm / 10.04in**
E Width	**151mm / 5.94in**

Find 3D Model here



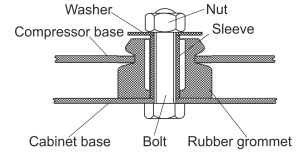
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.11–6.29 / 0.24–0.25in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	143°
Vertical angle ±2°	30°	0°	150°
Position l/h/w [mm]	107/183/55 / 4.21/7.20/2.17in	115/100/63 / 4.53/3.94/2.48in	-107/183/55 / -4.21/7.20/2.17in
Straight tube l. [mm]	12 / 0.47in	12 / 0.47in	12 / 0.47in

Mounting Accessories

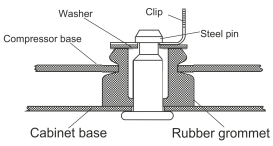


Dimensions in mm [in]

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
SC10CLX Configuration 1

Sales code:
104L2533

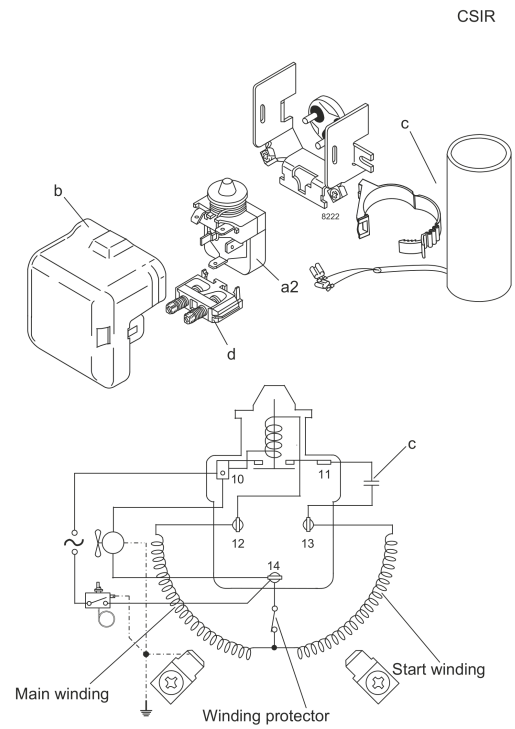
Configuration

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	**UL, 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 - 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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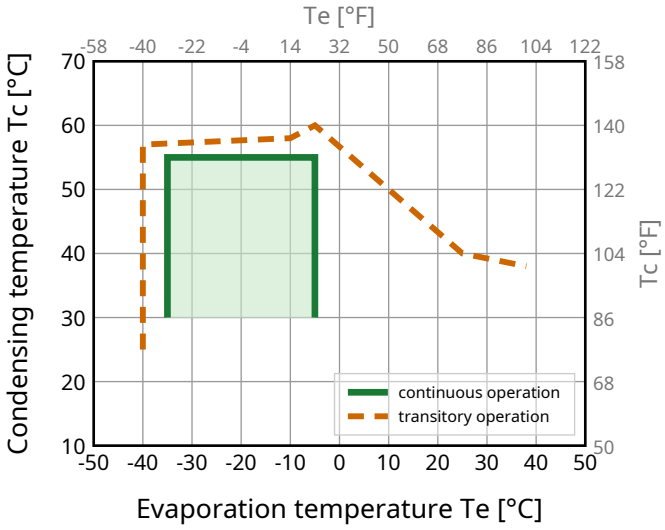
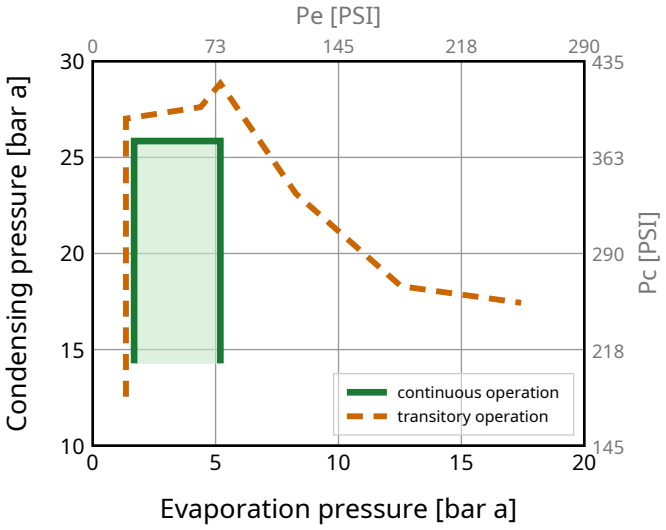
Components
a2 relay 117U6005
c start capacitor (80µF) 117U5017
d cord relief 103N1004
b plastic cover 103N2008

Operation Pressure Range





Model Sales code:

SC10CLX Configuration 1 **104L2533**

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	**396**	1351	341	**1.11**	3.79	356	2.39	9.21	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**258**	880	222	**0.77**	2.62	336	2.31	8.04	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**194**	662	167	**0.74**	2.51	264	2.02	5.26	**EN12900 LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**847**	2889	728	**1.50**	5.14	563	3.21	23.26	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**621**	2120	534	**1.19**	4.07	521	3.03	19.86	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**744**	2539	640	**1.46**	5.00	508	2.94	22.37	**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]
-35	-31	**166**	566	143	**0.64**	2.19	258	2.00	4.42
-30	-22	**255**	870	219	**0.84**	2.88	302	2.15	6.83
-25	-13	**360**	1228	310	**1.02**	3.49	352	2.32	9.69
-20	-4	**483**	1647	415	**1.20**	4.08	404	2.51	13.07
-15	5	**625**	2134	538	**1.37**	4.67	457	2.72	17.05
-10	14	**789**	2693	679	**1.55**	5.30	508	2.94	21.70
-5	23	**977**	3334	840	**1.76**	5.99	556	3.19	27.12

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

-35	-31	**94**	321	81	**0.39**	1.32	242	1.93	2.90
-30	-22	**169**	578	146	**0.59**	2.03	285	2.11	5.25
-25	-13	**258**	880	222	**0.77**	2.62	336	2.31	8.04
-20	-4	**361**	1233	311	**0.92**	3.13	394	2.53	11.35
-15	5	**482**	1644	414	**1.06**	3.60	456	2.77	15.26
-10	14	**621**	2120	534	**1.19**	4.07	521	3.03	19.86
-5	23	**781**	2666	672	**1.34**	4.56	585	3.31	25.26

Model
SC10CLX Configuration 2

Sales code:
104L2533

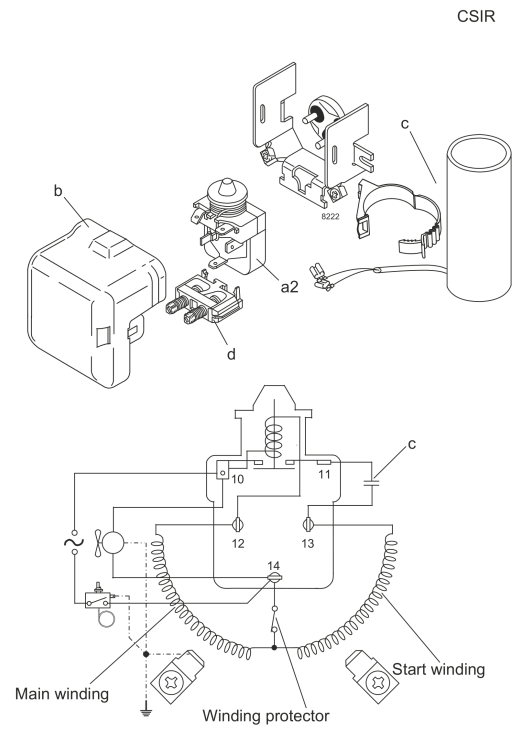
Configuration

Motor configuration	**CSIR**
Power supply (nominal)	**208-230 V/60 Hz 1~**
Refrigerant	**R404A**
Application	**LBP**
Voltage range	**198-254 V**
Starting torque	**HST**
Approvals	**UL, 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 - 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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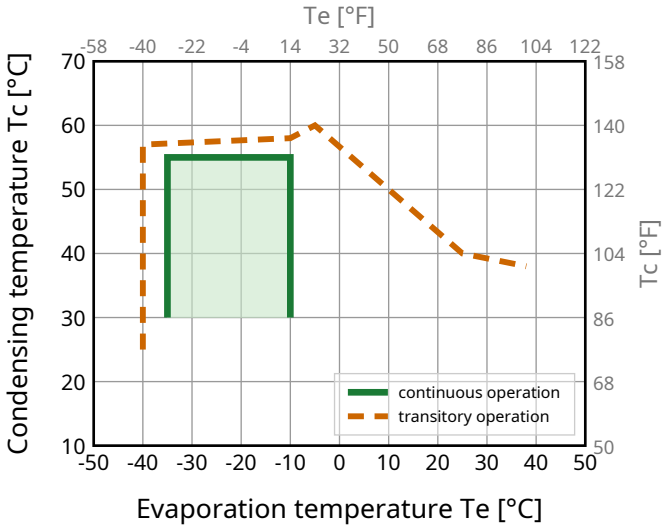
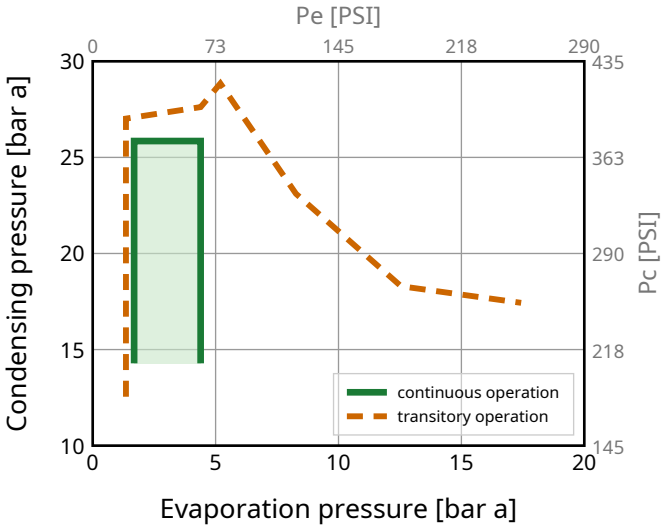
Components
a2 relay 117U6005
c start capacitor (80µF) 117U5017
d cord relief 103N1004
b plastic cover 103N2008

Operation Pressure Range





Model

SC10CLX Configuration 2

Sales code:

104L2533

Standard Conditions

R404A, 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	**518**	1767	445	**1.16**	3.95	447	2.63	12.04	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**340**	1162	293	**0.81**	2.77	420	2.54	10.62	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**262**	896	226	**0.81**	2.76	325	2.25	7.11	**EN12900 LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**1006**	3433	865	**1.40**	4.79	717	3.70	27.64	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**755**	2575	649	**1.14**	3.90	661	3.47	24.13	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**854**	2913	734	**1.37**	4.67	623	3.30	25.67	**EN12900 MBP**

Performance Tables

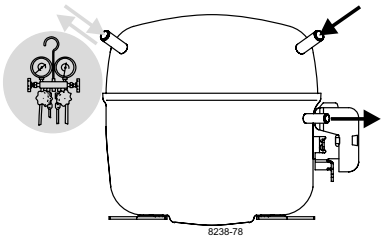
R404A, 220 V/60 Hz, CSIR, fan 3m/s

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	**224**	764	193	**0.74**	2.51	304	2.19	5.97
-30	-22	**335**	1142	288	**0.91**	3.09	370	2.36	8.96
-25	-13	**455**	1552	391	**1.06**	3.61	430	2.55	12.25
-20	-4	**588**	2007	506	**1.20**	4.10	489	2.77	15.93
-15	5	**738**	2516	634	**1.34**	4.56	552	3.02	20.11
-10	14	**906**	3090	779	**1.45**	4.96	623	3.30	24.90

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

-35	-31	**110**	376	95	**0.46**	1.56	241	2.06	3.40
-30	-22	**223**	760	192	**0.67**	2.27	335	2.28	6.91
-25	-13	**340**	1162	293	**0.81**	2.77	420	2.54	10.62
-20	-4	**466**	1591	401	**0.93**	3.19	499	2.82	14.64
-15	5	**603**	2059	519	**1.04**	3.56	578	3.13	19.10
-10	14	**755**	2575	649	**1.14**	3.90	661	3.47	24.13



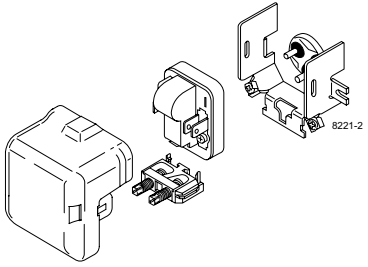
SC Compressors

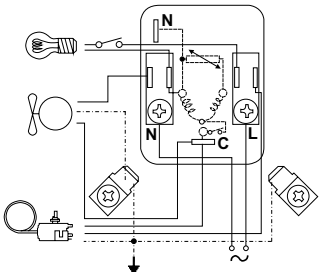
SECOP

Keep electrical equipment clear from oil, chemicals, and water

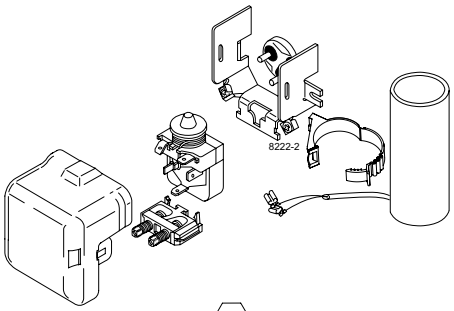
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

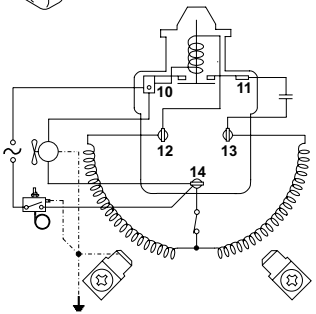
RSIR





CSIR





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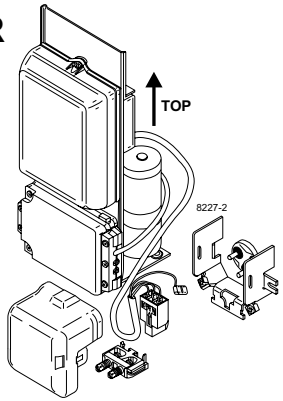
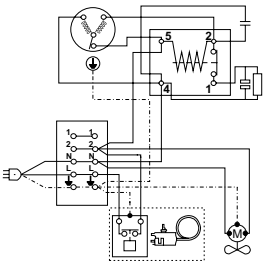
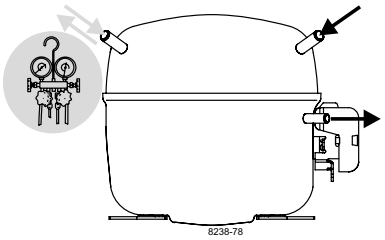






SC Compressors

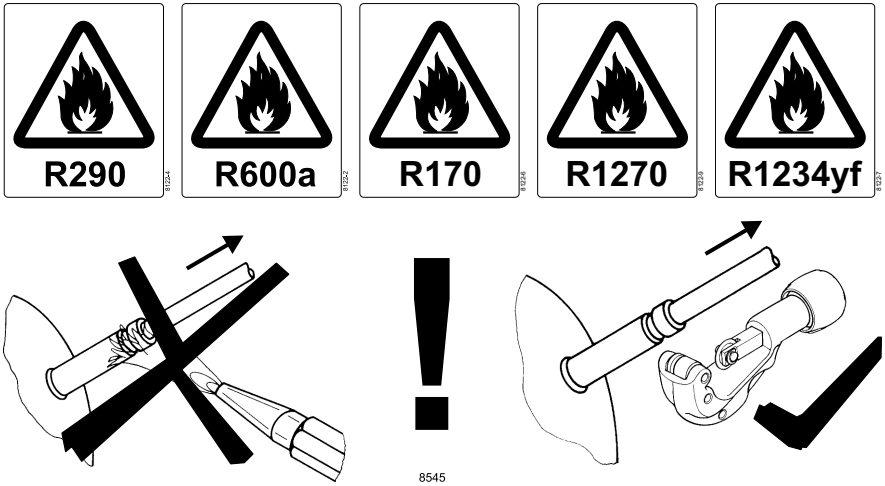
SECOP

Keep electrical equipment clear from oil, chemicals, and water

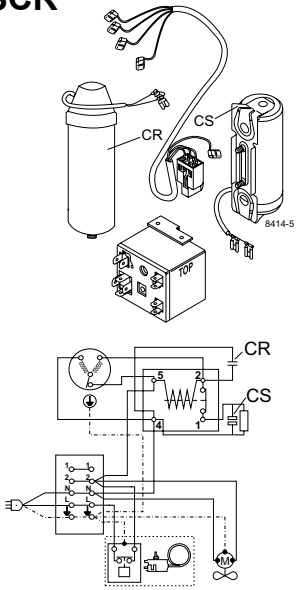
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

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

(applies to all flammable refrigerants)



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**