Single
Packs

Single Pack SC18CLX.2 115V 60Hz CSCR

Single pack code number: **195B4115**

Position	Title	Code	Amount
1	Compressor SC18CLX.2	104L2198	1
2	SC starting device (600mm)	117-7045	1
3	Bolt joint for one compressor | M6 | ø16mm	118-1917	1
Below electrical equipment is pre-assembled on the compressor:			
4	Overload protector T0761/46	117U3212	1
5	Protector holder	117U0439	1
6	Cover	117U1021	1

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Model
SC18CLX.2

Sales code:
104L2198

Compressor Data

Refrigerant(s)	**R404A / R452A / R507**
Refr. charge - tech. limit	**1300g / 45.86oz**
Weight	**14.20 kg / 31.31lbs**
Displacement	**17.69 cm3 / 1.08cu.in**
Compressors on pallet	**80**

General – Configurations With SC18CLX.2

–	**Conf. 1**	**Conf. 2**
Motor configuration	CSCR	CSCR
Power supply (nominal)	115 V/60 Hz	115 V/60 Hz
Number of phases	1	1
Voltage range	103-127 V	103-127 V
Approvals	UL	UL
Starting torque	HST	HST
Refrigerant	R404A	R452A
Application	LBP	LBP
Hot gas defrost	OK	OK

Application Notes

- Protector and cover are included and pre-assembled to compressor.
- Provision for PE Grounding is located at the PE Stamp on the compressor

Model
SC18CLX.2

Sales code:
104L2198

Compressor Design

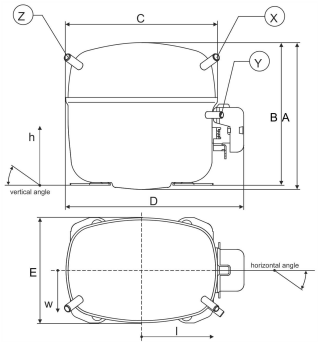
Oil type	**POE**	Winding resistance main	**0.6 Ohm**
Oil viscosity	**32cSt**	Winding resistance aux	**3.2 Ohm**
Oil quantity	**556 / 18.80fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**1,460 cm3 / 49.37fl.oz**	Max. discharge temp.	**130°C / 266°F**
Motor protection	**external**		

Compressor Dimensions

Housing

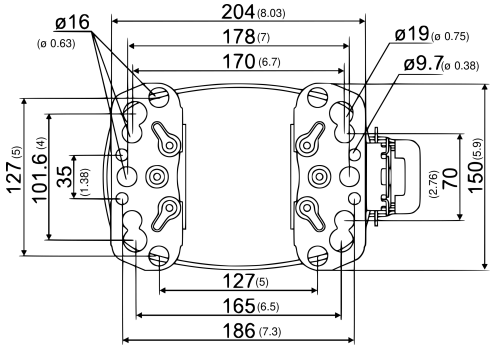
A Height	**219mm / 8.62in**
B Height	**213mm / 8.39in**
C Length shell	**218mm / 8.58in**
D Length w. cover	**255mm / 10.04in**
E Width	**151mm / 5.94in**

Find 3D Model here



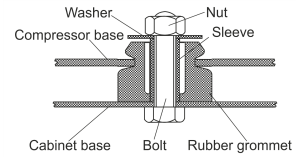
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 9.54–9.72 / 0.38–0.38in	øi 6.41–6.59 / 0.25–0.26in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	143°
Vertical angle ±2°	30°	0°	150°
Position l/h/w [mm]	107/193/55 / 4.21/7.60/2.17in	115/110/63 / 4.53/4.33/2.48in	-107/193/55 / -4.21/7.60/2.17in
Straight tube l. [mm]	12 / 0.47in	12 / 0.47in	12 / 0.47in

Mounting Accessories

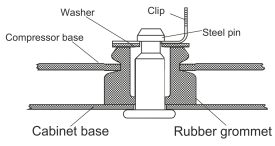


Dimensions in mm [in]

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
SC18CLX.2 Configuration 1

Sales code:
104L2198

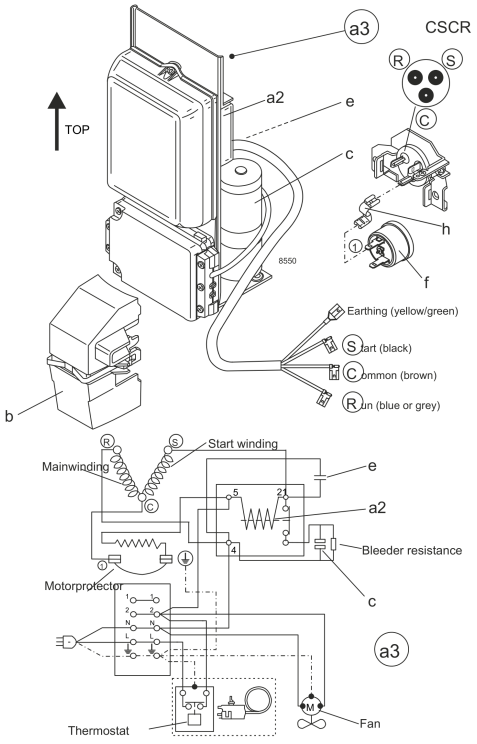
Configuration

Motor configuration	**CSCR**
Power supply (nominal)	**115 V/60 Hz 1~**
Refrigerant	**R404A**
Application	**LBP**
Voltage range	**103-127 V**
Starting torque	**HST**
Approvals	**UL**
Starting device type	**relay**
Run capacitor	**23.5 µF**
Start capacitor	**410 µF**
LRA (locked rotor amps / 4s/ U(N))	**63 A**
RLA (rated load amps / 1s/ U(N))	**9.6 A**
Cut in current (U(N))	**63 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

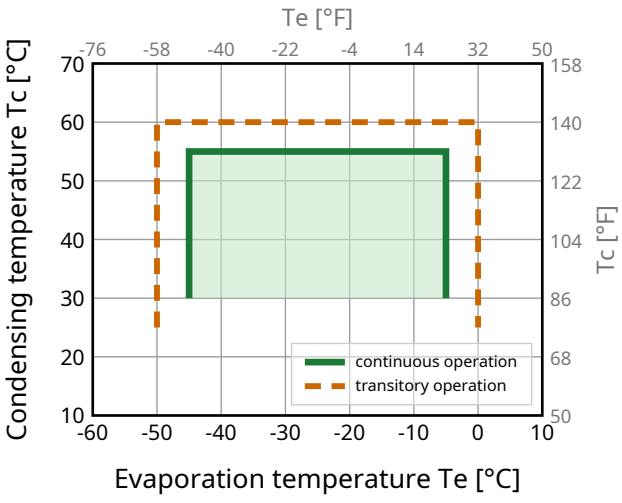


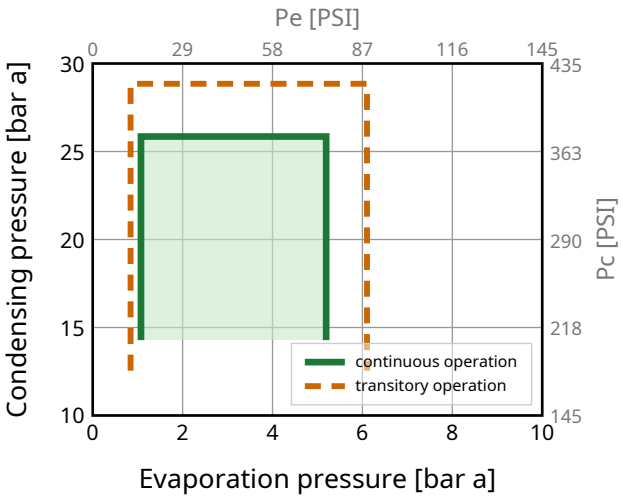
View full size

Components (protector + ~holder + cover: pre assembled)
a3 SC starter kit 117-7045
f ext. protector (T0761/46) 117U3212
b plastic cover + clamp 117U1021

Alternative components
a2 potential relay (RVA 7AA3R) 117-7441
e run capacitor (23,5µF, 6.3mm) 117-7114
c start capacitor (410µF, 6.3mm) 117U5043
f ext. protector (T0761/46) 117U3212
b plastic cover + clamp 117U1021

Operation Pressure Range





Model

SC18CLX.2 Configuration 1

Sales code:

104L2198

Standard Conditions

R404A, 115 V/60 Hz, CSCR, 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	**1075**	3667	924	**1.31**	4.48	819	8.99	24.98	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**738**	2517	634	**0.94**	3.21	785	8.76	23.00	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**569**	1942	489	**0.97**	3.30	588	7.51	15.42	**EN12900 LBP**
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	**783**	2671	673	**0.97**	3.30	808	8.93	27.62	**ARI540 LBP**
-23.3 -10	40.6 105.1	32.2 90	32.2 90	**1158**	3951	996	**1.47**	5.01	788	8.80	26.92	**AHAM LBP**
-35 -31	45 113	32 89.6	45 113	**523**	1785	450	**0.91**	3.09	577	7.47	13.95	**opt LBP**

Performance Tables

R404A, 115 V/60 Hz, CSCR, 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]
-45	-49	**109**	371	93	**0.34**	1.16	320	6.25	2.88
-40	-40	**327**	1114	281	**0.71**	2.43	458	6.86	8.68
-30	-22	**712**	2428	612	**1.05**	3.57	680	8.07	19.05
-20	-4	**1117**	3811	961	**1.31**	4.46	854	9.27	30.24
-10	14	**1648**	5625	1418	**1.62**	5.54	1015	10.44	45.32
-5	23	**1994**	6805	1715	**1.81**	6.19	1100	11.02	55.37

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

-45	-49	**–**	–	–	**–**	–	–	5.93	–
-40	-40	**153**	523	132	**0.38**	1.29	404	6.65	4.71
-30	-22	**560**	1909	481	**0.83**	2.83	674	8.06	17.35
-20	-4	**917**	3127	788	**1.04**	3.54	884	9.46	28.78
-10	14	**1330**	4538	1144	**1.25**	4.25	1067	10.83	42.51
-5	23	**1591**	5427	1368	**1.37**	4.68	1158	11.51	51.42

Model
SC18CLX.2 Configuration 2

Sales code:
104L2198

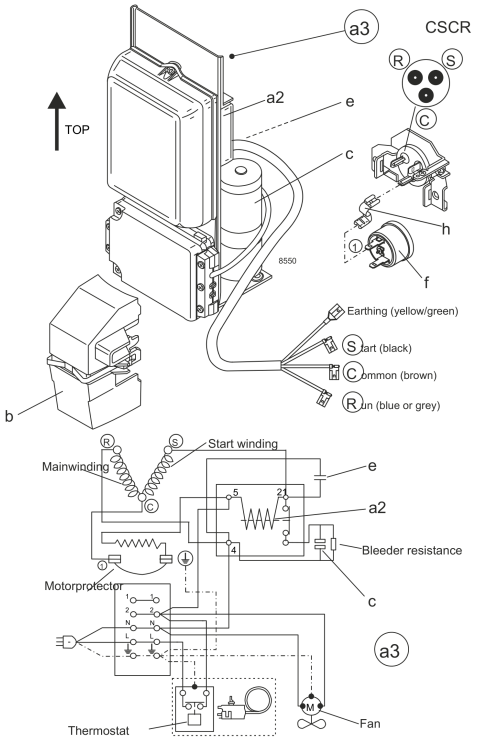
Configuration

Motor configuration	**CSCR**
Power supply (nominal)	**115 V/60 Hz 1~**
Refrigerant	**R452A**
Application	**LBP**
Voltage range	**103-127 V**
Starting torque	**HST**
Approvals	**UL**
Starting device type	**relay**
Run capacitor	**23.5 µF**
Start capacitor	**410 µF**
LRA (locked rotor amps / 4s/ U(N))	**63 A**
RLA (rated load amps / 1s/ U(N))	**9.6 A**
Cut in current (U(N))	**63 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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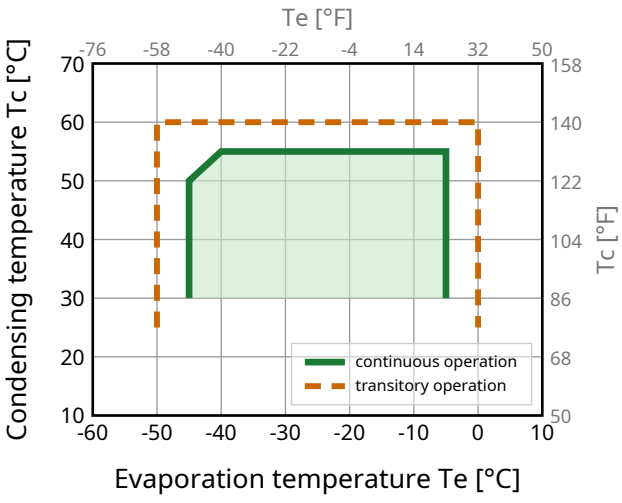
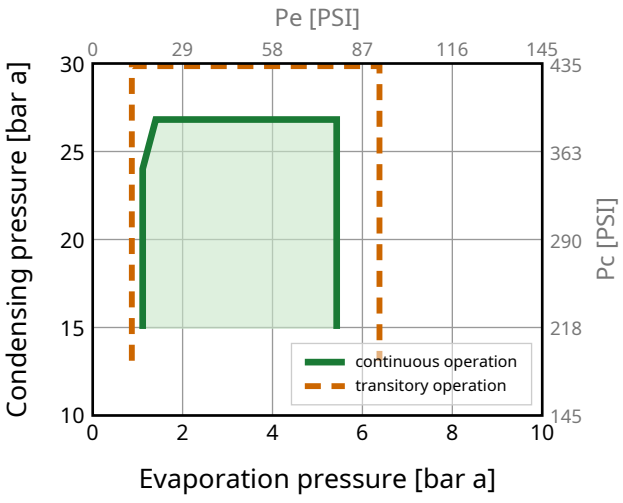
Components (protector + ~holder + cover: pre assembled)
a3 SC starter kit 117-7045
f ext. protector (T0761/46) 117U3212
b plastic cover + clamp 117U1021

Alternative components
a2 potential relay (RVA 7AA3R) 117-7441
e run capacitor (23,5µF, 6.3mm) 117-7114
c start capacitor (410µF, 6.3mm) 117U5043
f ext. protector (T0761/46) 117U3212
b plastic cover + clamp 117U1021

Operation Pressure Range





Model

SC18CLX.2 Configuration 2

Sales code:

104L2198

Standard Conditions

R452A, 115 V/60 Hz, CSCR, 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	**987**	3369	849	**1.28**	4.35	774	8.83	23.89	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**680**	2319	584	**0.92**	3.13	740	8.62	21.92	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**513**	1751	441	**0.93**	3.17	552	7.41	14.45	**EN12900 LBP**
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	**724**	2472	623	**0.95**	3.23	766	8.78	26.45	**ARI540 LBP**
-23.3 -10	40.6 105.1	32.2 90	32.2 90	**1065**	3634	916	**1.42**	4.85	749	8.67	25.77	**AHAM LBP**
-35 -31	45 113	32 89.6	45 113	**471**	1607	405	**0.87**	2.98	540	7.34	13.05	**opt LBP**

Performance Tables

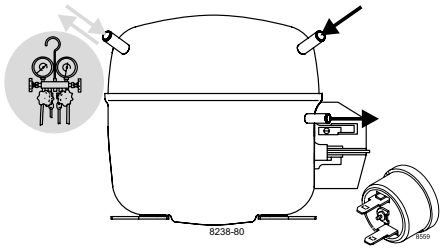
R452A, 115 V/60 Hz, CSCR, fan 3m/s

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]
-45	-49	**87**	297	75	**0.29**	1.00	296	5.78	2.40
-40	-40	**288**	984	248	**0.68**	2.31	427	6.61	7.96
-30	-22	**648**	2211	557	**1.01**	3.46	640	7.98	18.03
-20	-4	**1035**	3532	890	**1.27**	4.34	814	9.09	29.11
-10	14	**1551**	5291	1334	**1.59**	5.42	977	10.13	44.28
-5	23	**1889**	6444	1624	**1.78**	6.06	1063	10.69	54.45

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

-45	-49	**–**	–	–	**–**	–	–	5.24	–
-40	-40	**131**	447	113	**0.35**	1.20	371	6.26	4.16
-30	-22	**510**	1741	439	**0.81**	2.76	631	7.92	16.37
-20	-4	**852**	2907	733	**1.01**	3.46	839	9.25	27.67
-10	14	**1257**	4289	1081	**1.23**	4.18	1025	10.44	41.55
-5	23	**1515**	5169	1303	**1.35**	4.62	1118	11.04	50.63



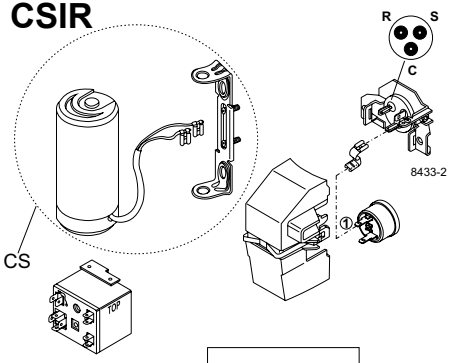
SC Compressors
(External Protector)

SECOP

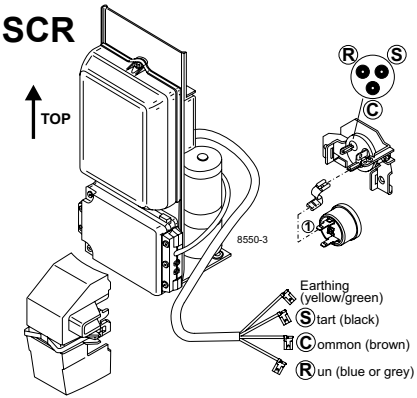
Keep electrical equipment clear from oil, chemicals, and water

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

CSIR

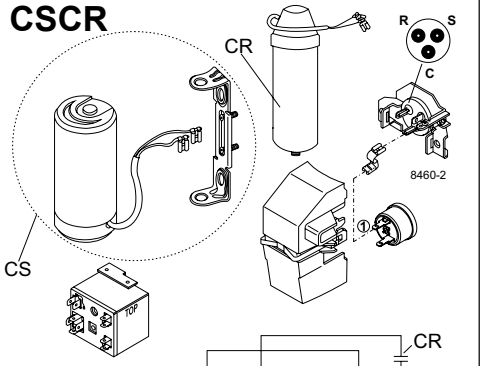


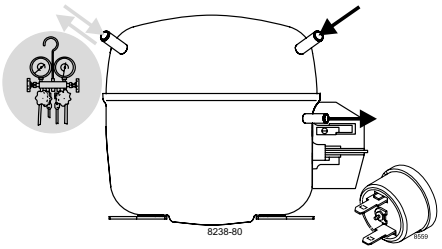
CSCR



	S	C	R
ENGLISH	Black	Brown	Blue or grey
DEUTSCH	Schwarz	Braun	Blau od. grau
FRANÇAIS	Noir	Marron	Bleu ou gris
ESPAÑOL	Negro	Marrón	Azul o gris
ITALIANO	Nero	Marrone	Blu o grigio
NEDERLANDS	Zwart	Bruin	Blauw of grijs
РУССКИЙ	Чёрный	Корич-невый	Синий или серый
中文	黑色	棕色	蓝色或灰色

CSCR





SC Compressors
(External Protector)

SECOP

Keep electrical equipment clear from oil, chemicals, and water

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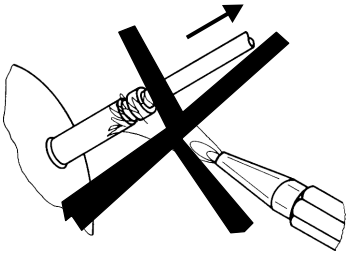
Service/Repair – R290, R600a, R170, R1270, R1234yf

(applies to all flammable refrigerants)



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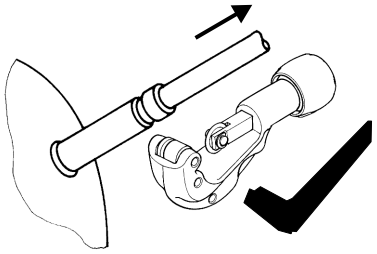
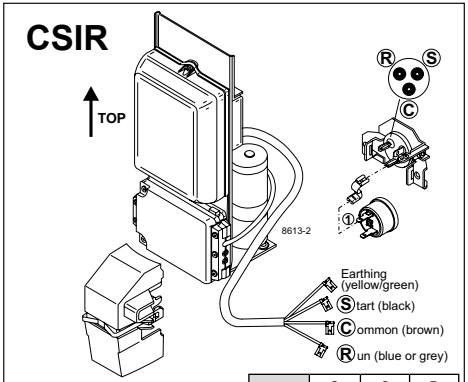
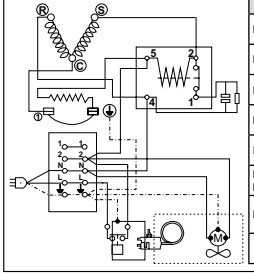


CSIR





	S	C	R
ENGLISH	Black	Brown	Blue or grey
DEUTSCH	Schwarz	Braun	Blau od. grau
FRANÇAIS	Noir	Marron	Bleu ou gris
ESPAÑOL	Negro	Marrón	Azul o gris
ITALIANO	Nero	Marrone	Blu o grigio
NEDER-LANDS	Zwart	Bruin	Blauw of grijs
РУССКИЙ	Чёрный	Корич-невый	Синий или серый
中文	黑色	棕色	蓝色或灰色

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**