Single
Packs

Single Pack SC15MLX 115-127V 60Hz CSCR

Single pack code number: **195B4203**

Position	Title	Code	Amount
1	Compressor SC15MLX	104L1805	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 T0777/46	117U3188	1
5	Protector holder	117U0439	1
6	Cover	117U1021	1

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Model
SC15MLX

Sales code:
104L1805

Compressor Data

Refrigerant(s)	**R404A / R507**
Refr. charge - tech. limit	**1300g / 45.86oz**
Weight	**14.20 kg / 31.31lbs**
Displacement	**15.28 cm3 / 0.93cu.in**
Compressors on pallet	**80**

General – Configurations With SC15MLX

–	**Conf. 1**	**Conf. 2**
Motor configuration	CSIR	CSCR
Power supply (nominal)	115 V/60 Hz	115 V/60 Hz
Number of phases	1	1
Voltage range	103-135 V	95-135 V
Approvals	UL	UL
Starting torque	HST	HST
Refrigerant	R404A	R404A
Application	MBP	MBP
Hot gas defrost	OK	OK
Long interval pull down	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
SC15MLX

Sales code:
104L1805

Compressor Design

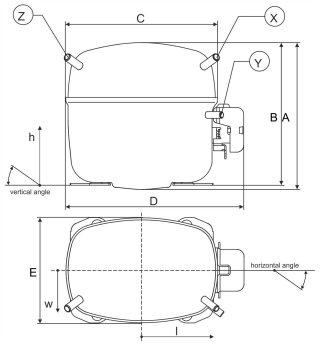
Oil type	**POE**	Winding resistance main	**0.6 Ohm**
Oil viscosity	**32cSt**	Winding resistance aux	**2.6 Ohm**
Oil quantity	**550 / 18.60fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**1,460 cm3 / 49.37fl.oz**	Max. discharge temp.	**130°C / 266°F**
Motor protection	**external**		

Compressor Dimensions

Housing

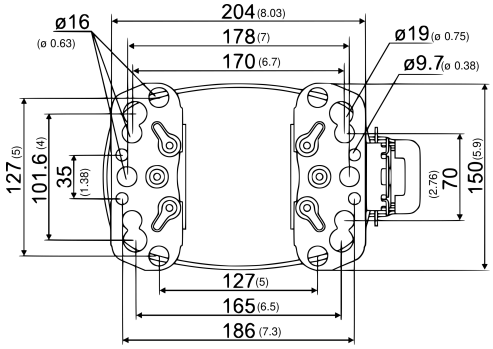
A Height	**219mm / 8.62in**
B Height	**213mm / 8.39in**
C Length shell	**218mm / 8.58in**
D Length w. cover	**255mm / 10.04in**
E Width	**151mm / 5.94in**

Find 3D Model here



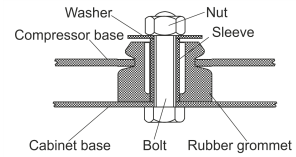
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 9.54–9.72 / 0.38–0.38in	øi 6.41–6.59 / 0.25–0.26in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	143°
Vertical angle ±2°	30°	0°	150°
Position l/h/w [mm]	107/193/55 / 4.21/7.60/2.17in	115/110/63 / 4.53/4.33/2.48in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

Mounting Accessories

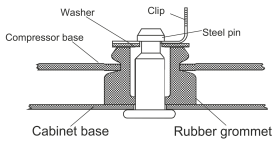


Dimensions in mm [in]

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
SC15MLX Configuration 1

Sales code:
104L1805

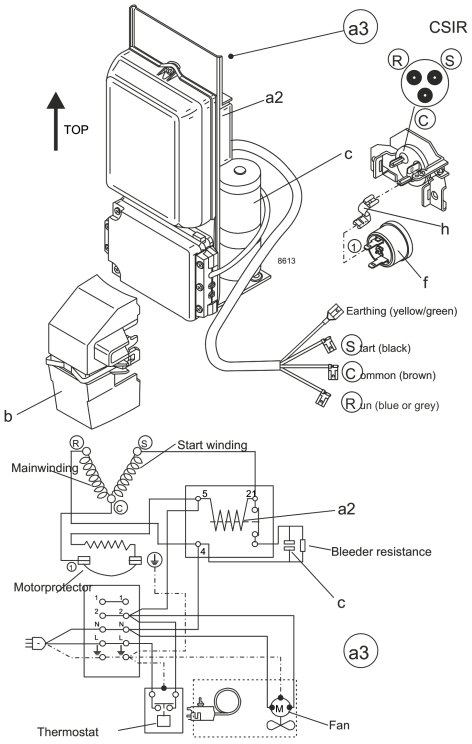
Configuration

Motor configuration	**CSIR**
Power supply (nominal)	**115 V/60 Hz 1~**
Refrigerant	**R404A**
Application	**MBP**
Voltage range	**103-135 V**
Starting torque	**HST**
Approvals	**UL**
Starting device type	**relay**
Run capacitor	**-/-**
Start capacitor	**410 µF**
LRA (locked rotor amps / 4s/ U(N))	**69 A**
RLA (rated load amps / 1s/ U(N))	**13 A**
Cut in current (U(N))	**69 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

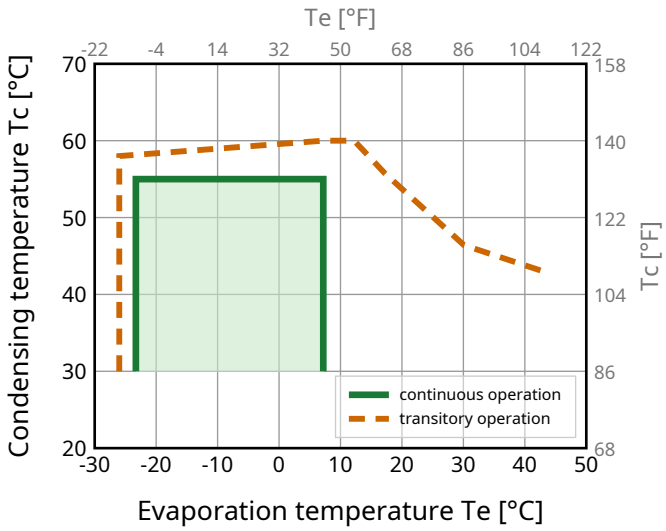


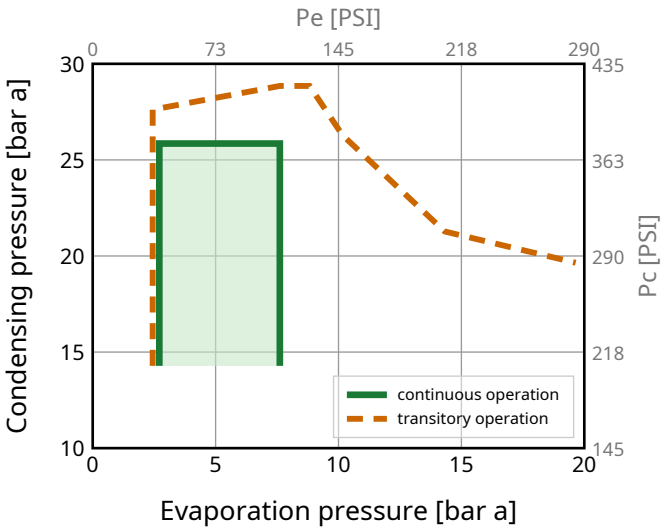
View full size

Components (protector + ~holder + cover: pre assembled)
a3 SC starter kit 117-7053
f ext. protector (T0777/46) 117U3188
b plastic cover + clamp 117U1021

Alternative components
a2 potential relay (RVA 7AA3R) 117-7441
c start capacitor (410µF, 6.3mm) 117U5042
b plastic cover + clamp 117U1021

Operation Pressure Range





Model
SC15MLX Configuration 1

Sales code:
104L1805

Standard Conditions

R404A, 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]	
-6.7 20	54.4 129.9	35 95	46.1 115	**1502**	5126	1292	**1.41**	4.79	1070	12.23	41.27	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**1113**	3799	958	**1.11**	3.79	1003	11.73	35.59	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**1318**	4499	1134	**1.39**	4.75	947	11.32	39.65	**EN12900 MBP**
-6.7 20	48.8 119.8	18.3 64.9	48.8 119.8	**1375**	4691	1182	**1.33**	4.56	1030	11.94	44.80	**ARI540 MBP**
-10 14	45 113	32 89.6	45 113	**1399**	4773	1203	**1.48**	5.04	947	11.32	38.46	**opt MBP 1**
-25 -13	45 113	32 89.6	45 113	**710**	2423	611	**1.01**	3.45	703	9.73	19.11	**opt MBP 2**

Performance Tables

R404A, 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]
-23.3	-10	**771**	2631	663	**1.06**	3.60	730	9.88	20.79
-20	-4	**901**	3074	775	**1.15**	3.92	783	10.20	24.39
-15	5	**1129**	3853	971	**1.31**	4.46	864	10.73	30.79
-10	14	**1399**	4773	1203	**1.48**	5.04	947	11.32	38.46
-5	23	**1714**	5847	1474	**1.66**	5.66	1033	11.97	47.57
0	32	**2078**	7089	1787	**1.85**	6.32	1122	12.69	58.34
5	41	**2495**	8512	2146	**2.05**	7.00	1216	13.46	71.01
7.2	45	**2696**	9199	2319	**2.14**	7.31	1258	13.82	77.26

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

-23.3	-10	**583**	1989	501	**0.81**	2.77	718	9.88	18.22
-20	-4	**692**	2363	596	**0.88**	2.99	790	10.30	21.75
-15	5	**885**	3020	761	**0.99**	3.37	897	10.99	28.02
-10	14	**1113**	3799	958	**1.11**	3.79	1003	11.73	35.59
-5	23	**1381**	4712	1188	**1.24**	4.24	1110	12.54	44.65
0	32	**1692**	5774	1455	**1.39**	4.74	1218	13.41	55.44
5	41	**2051**	6997	1764	**1.54**	5.26	1329	14.35	68.25
7.2	45	**2224**	7590	1913	**1.61**	5.51	1378	14.78	74.62

Model
SC15MLX Configuration 2

Sales code:
104L1805

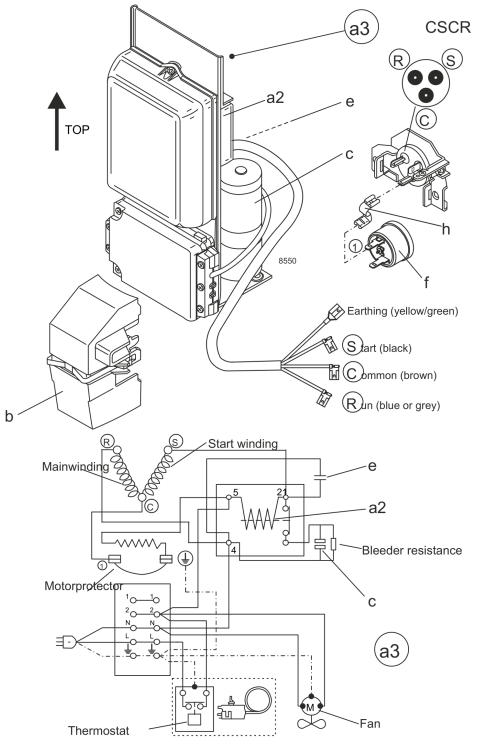
Configuration

Motor configuration	**CSCR**
Power supply (nominal)	**115 V/60 Hz 1~**
Refrigerant	**R404A**
Application	**MBP**
Voltage range	**95-135 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))	**69 A**
RLA (rated load amps / 1s/ U(N))	**13 A**
Cut in current (U(N))	**69 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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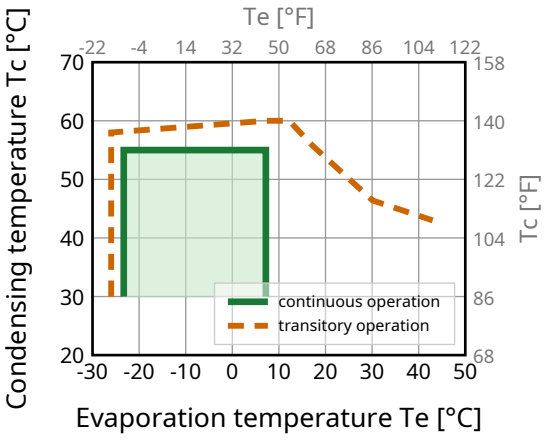
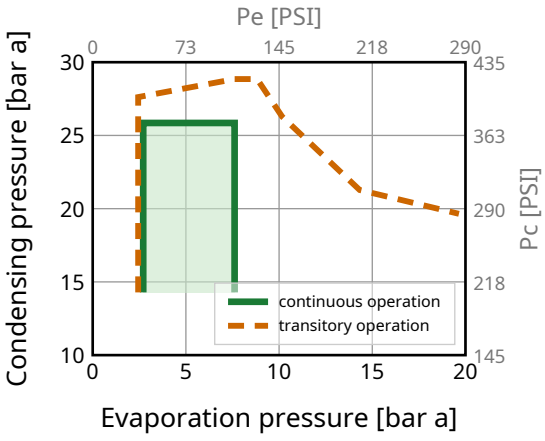
Components (protector + ~holder + cover: pre assembled)
a3 SC starter kit 117-7045
f ext. protector (T0777/46) 117U3188
h protector holder 117U0439
b plastic cover + clamp 117U1021

Alternative components
a2 potential relay (RVA 7AA3R) 117-7441
f ext. protector (T0777/46) 117U3188
h protector holder 117U0439
c start capacitor (410µF, 6.3mm) 117U5043
e run capacitor (23,5µF, 6.3mm) 117-7114
b plastic cover + clamp 117U1021

Operation Pressure Range





Model
SC15MLX Configuration 2

Sales code:
104L1805

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]	
-6.7 20	54.4 129.9	35 95	46.1 115	**1517**	5177	1305	**1.46**	4.99	1037	12.23	41.68	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**1124**	3837	967	**1.16**	3.94	973	11.73	35.94	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**1332**	4544	1145	**1.45**	4.94	919	11.32	40.04	**EN12900 MBP**
-6.7 20	48.8 119.8	18.3 64.9	48.8 119.8	**1389**	4738	1194	**1.39**	4.74	999	11.94	45.25	**ARI540 MBP**
-10 14	45 113	32 89.6	45 113	**1413**	4820	1215	**1.54**	5.25	919	11.32	38.84	**opt MBP 1**
-25 -13	45 113	32 89.6	45 113	**717**	2447	617	**1.05**	3.59	682	9.73	19.30	**opt MBP 2**

Performance Tables

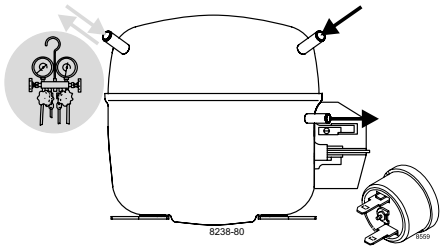
R404A, 115 V/60 Hz, CSCR, fan 3m/s

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]
-23.3	-10	**779**	2657	670	**1.10**	3.75	708	9.88	21.00
-20	-4	**910**	3105	783	**1.20**	4.09	760	10.20	24.64
-15	5	**1140**	3891	981	**1.36**	4.64	838	10.73	31.10
-10	14	**1413**	4820	1215	**1.54**	5.25	919	11.32	38.84
-5	23	**1731**	5905	1488	**1.73**	5.90	1002	11.97	48.05
0	32	**2098**	7160	1805	**1.93**	6.58	1088	12.69	58.92
5	41	**2520**	8597	2167	**2.14**	7.29	1179	13.46	71.72
7.2	45	**2723**	9291	2342	**2.23**	7.61	1221	13.82	78.03

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

-23.3	-10	**589**	2009	506	**0.84**	2.88	697	9.88	18.40
-20	-4	**699**	2386	601	**0.91**	3.12	766	10.30	21.96
-15	5	**894**	3050	769	**1.03**	3.50	870	10.99	28.30
-10	14	**1124**	3837	967	**1.16**	3.94	973	11.73	35.94
-5	23	**1395**	4759	1200	**1.29**	4.42	1077	12.54	45.09
0	32	**1709**	5832	1470	**1.45**	4.93	1182	13.41	55.99
5	41	**2071**	7067	1781	**1.61**	5.48	1289	14.35	68.94
7.2	45	**2247**	7666	1932	**1.68**	5.73	1337	14.78	75.36



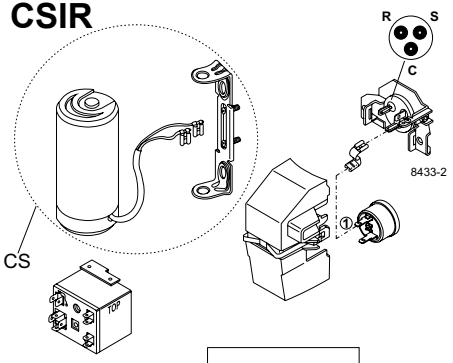
SC Compressors
(External Protector)

SECOP

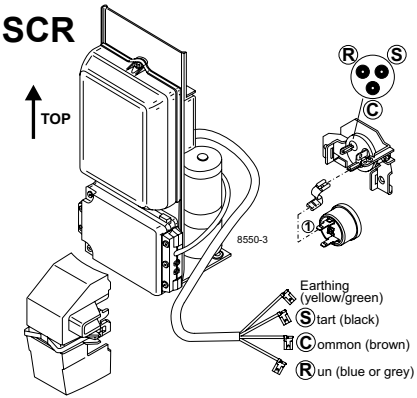
Keep electrical equipment clear from oil, chemicals, and water

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

CSIR

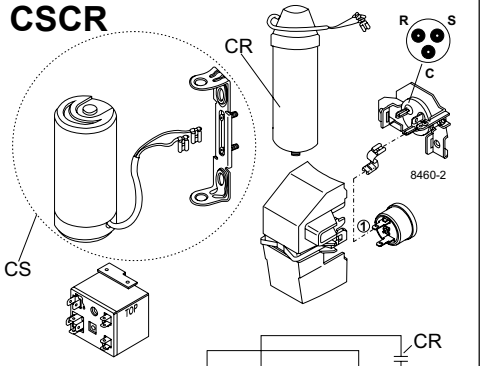


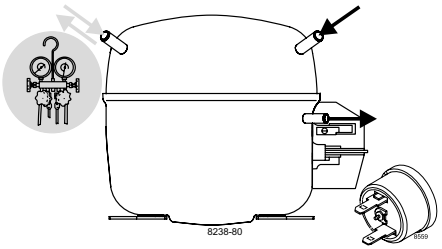
CSCR



	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)

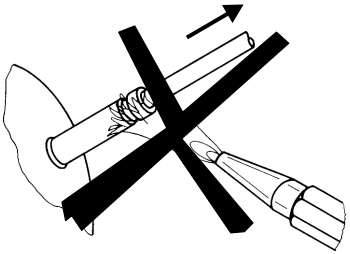
SECOP

Keep electrical equipment clear from oil, chemicals, and water

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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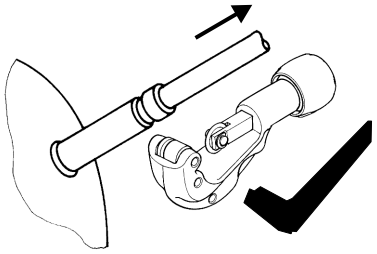
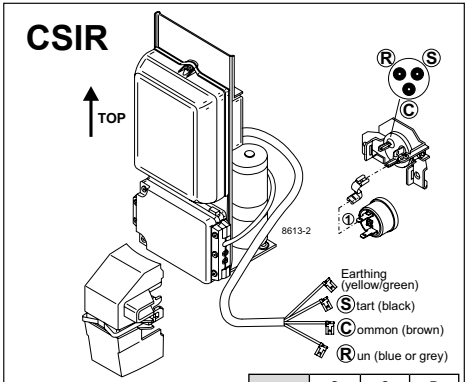
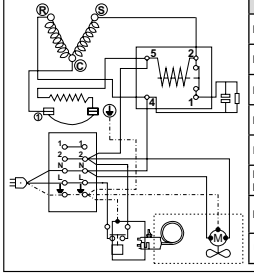


CSIR





	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**