Single
Packs

Single Pack SC15MLX.2 115V 60Hz CSCR

Single pack code number: **195B4231**

Position	Title	Code	Amount
1	Compressor SC15MLX.2	104L1807	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
SC15MLX.2

Sales code:
104L1807

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.2

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

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SC15MLX.2

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Compressor Design

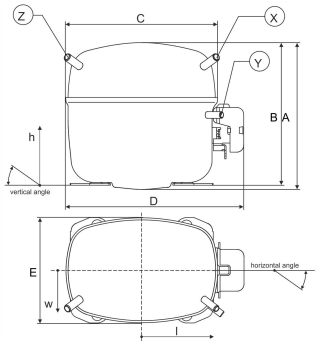
Oil type	**POE**	Winding resistance main	**0.6 Ohm**
Oil viscosity	**32cSt**	Winding resistance aux	**3.2 Ohm**
Oil quantity	**550 / 18.60fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**1,460 cm3 / 49.37fl.oz**	Max. discharge temp.	**130°C / 266°F**
Motor protection	**external**		

Compressor Dimensions

Housing

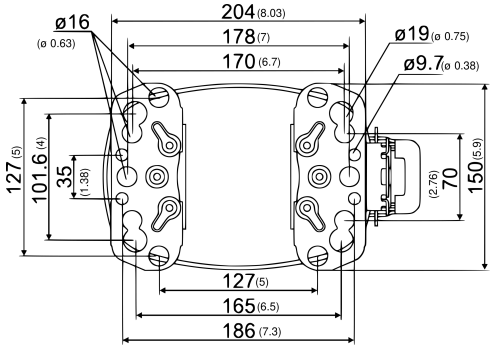
A Height	**219mm / 8.62in**
B Height	**213mm / 8.39in**
C Length shell	**218mm / 8.58in**
D Length w. cover	**255mm / 10.04in**
E Width	**151mm / 5.94in**

Find 3D Model here



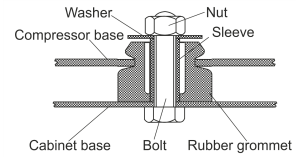
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 9.54–9.72 / 0.38–0.38in	øi 6.41–6.59 / 0.25–0.26in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	143°
Vertical angle ±2°	30°	0°	150°
Position l/h/w [mm]	107/193/55 / 4.21/7.60/2.17in	115/110/63 / 4.53/4.33/2.48in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

Mounting Accessories

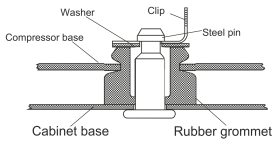


Dimensions in mm [in]

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.2 Configuration 1

Sales code:
104L1807

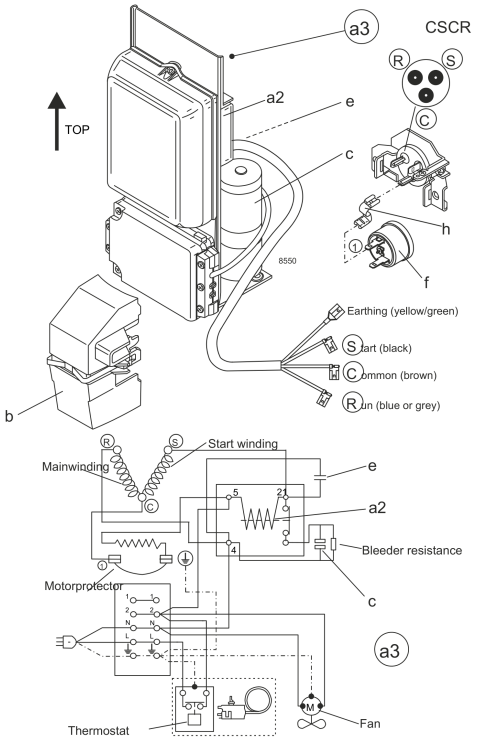
Configuration

Motor configuration	**CSCR**
Power supply (nominal)	**115 V/60 Hz 1~**
Refrigerant	**R404A**
Application	**MBP**
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 - 38°C / 50 - 100°F
Machine room temp. compressor: 10 - 43°C / 50 - 109°F

System Cooling
fan 3m/s

Electrical Accessories / Wiring Diagram

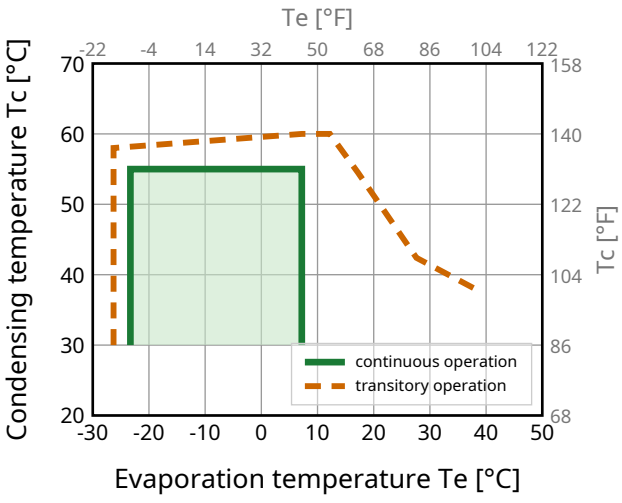


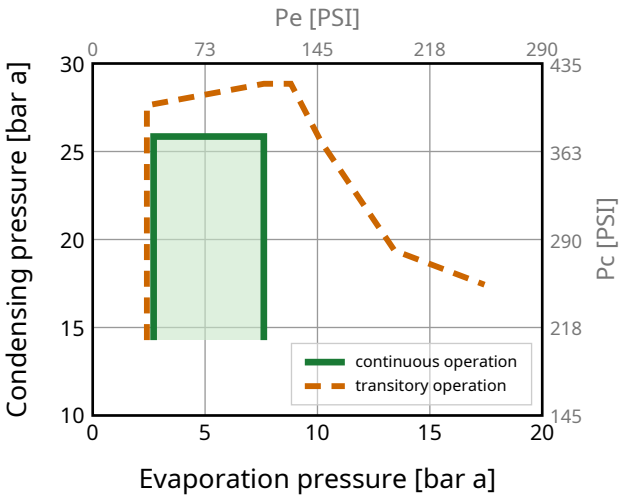
View full size

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
SC15MLX.2 Configuration 1

Sales code:
104L1807

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	**1.50**	5.13	1009	10.20	41.68	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**1132**	3861	973	**1.20**	4.08	947	9.76	36.17	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**1328**	4531	1142	**1.49**	5.07	894	9.39	39.94	**EN12900 MBP**
-6.7 20	48.8 119.8	18.3 64.9	48.8 119.8	**1382**	4716	1189	**1.42**	4.86	971	9.94	45.04	**ARI540 MBP**
-10 14	45 113	32 89.6	45 113	**1409**	4808	1212	**1.58**	5.38	894	9.39	38.74	**opt MBP 1**
-25 -13	45 113	32 89.6	45 113	**740**	2525	636	**1.12**	3.81	663	7.99	19.91	**opt MBP 2**

Performance Tables

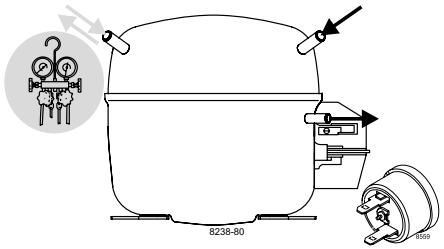
R404A, 115 V/60 Hz, CSCR, fan 3m/s

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	**799**	2727	687	**1.16**	3.96	689	8.12	21.55
-20	-4	**925**	3157	796	**1.25**	4.27	739	8.40	25.05
-15	5	**1147**	3914	987	**1.41**	4.80	815	8.87	31.28
-10	14	**1409**	4808	1212	**1.58**	5.38	894	9.39	38.74
-5	23	**1715**	5851	1475	**1.76**	6.01	974	9.97	47.61
0	32	**2069**	7058	1779	**1.96**	6.67	1058	10.60	58.09
5	41	**2474**	8441	2127	**2.16**	7.36	1147	11.28	70.41
7.2	45	**2669**	9108	2296	**2.25**	7.67	1187	11.60	76.49

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

-23.3	-10	**616**	2103	530	**0.91**	3.10	678	8.12	19.27
-20	-4	**723**	2466	622	**0.97**	3.31	745	8.49	22.70
-15	5	**910**	3105	783	**1.07**	3.67	846	9.10	28.81
-10	14	**1132**	3861	973	**1.20**	4.08	947	9.76	36.17
-5	23	**1392**	4749	1197	**1.33**	4.53	1047	10.47	44.99
0	32	**1694**	5780	1457	**1.47**	5.03	1149	11.24	55.50
5	41	**2042**	6969	1756	**1.63**	5.56	1254	12.06	67.98
7.2	45	**2211**	7545	1902	**1.70**	5.80	1300	12.44	74.17



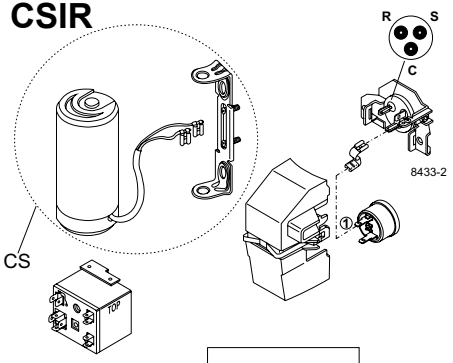
SC Compressors
(External Protector)

SECOP

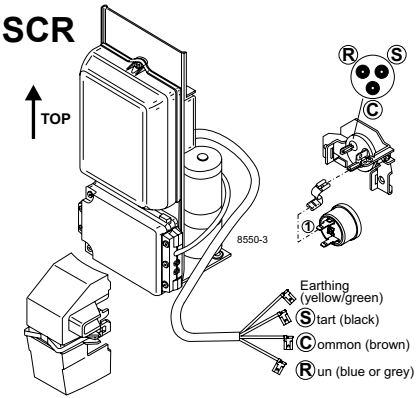
Keep electrical equipment clear from oil, chemicals, and water

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

CSIR

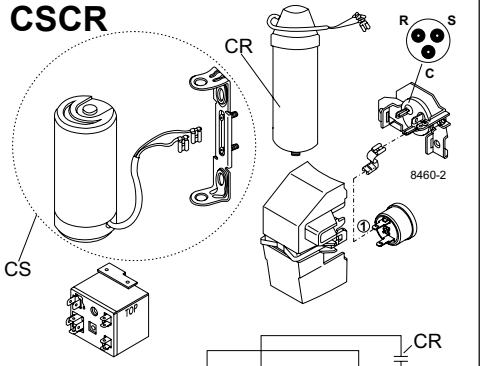


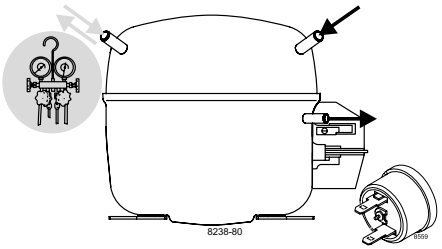
CSCR



	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)

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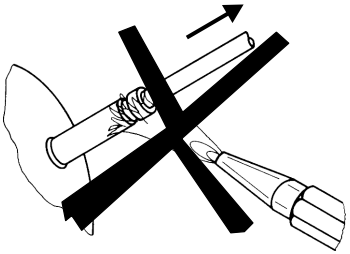
Service/Repair – R290, R600a, R170, R1270, R1234yf

(applies to all flammable refrigerants)



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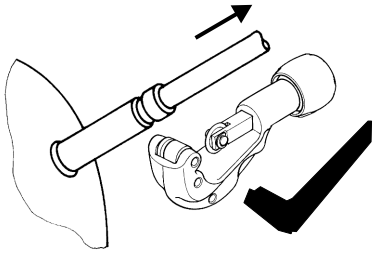
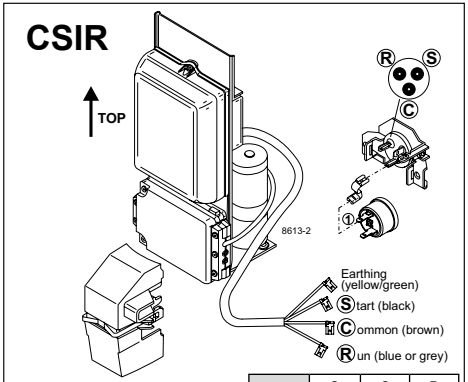
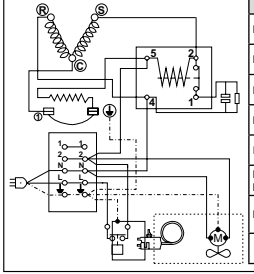


CSIR





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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**