Single
Packs

Single Pack SC18MLX 208-230V 60Hz CSCR

Single pack code number: **195B4208**

Position	Title	Code	Amount
1	Compressor SC18MLX	104L2138	1
2	SC starting device (550mm)	117-7066	1
3	Cord relief	103N1004	1
4	Cover	103N2008	1
5	Bolt joint for one compressor | M6 | ø16mm	118-1917	1

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Model
SC18MLX

Sales code:
104L2138

Compressor Data

Refrigerant(s)	**R404A / R507**
Refr. charge - tech. limit	**1300g / 45.86oz**
Weight	**14.00 kg / 30.86lbs**
Displacement	**17.69 cm3 / 1.08cu.in**
Compressors on pallet	**80**

General – Configurations With SC18MLX

–	**Conf. 1**
Motor configuration	CSCR
Power supply (nominal)	208-230 V/60 Hz
Number of phases	1
Voltage range	187-254 V
Approvals	UL, KC
Starting torque	HST
Refrigerant	R404A
Application	MBP
Hot gas defrost	OK
Long interval pull down	OK

Application Notes

- Provision for PE Grounding is located at the PE Stamp on the compressor

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Compressor Design

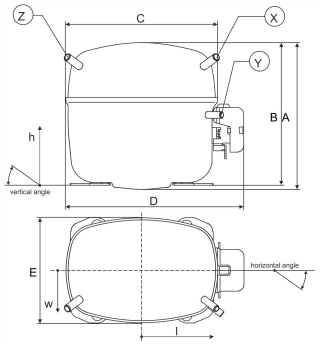
Oil type	**POE**	Winding resistance main	**2.2 Ohm**
Oil viscosity	**32cSt**	Winding resistance aux	**6.4 Ohm**
Oil quantity	**550 / 18.60fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**1,460 cm3 / 49.37fl.oz**	Max. discharge temp.	**130°C / 266°F**
Motor protection	**internal**		

Compressor Dimensions

Housing

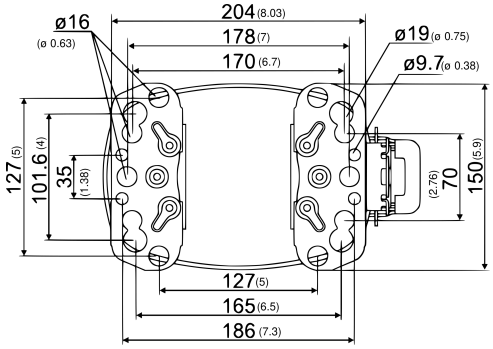
A Height	**219mm / 8.62in**
B Height	**213mm / 8.39in**
C Length shell	**218mm / 8.58in**
D Length w. cover	**255mm / 10.04in**
E Width	**151mm / 5.94in**

Find 3D Model here



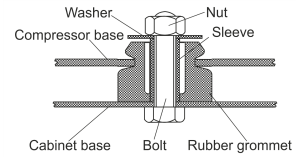
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 9.54–9.72 / 0.38–0.38in	øi 6.41–6.59 / 0.25–0.26in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	143°
Vertical angle ±2°	30°	0°	150°
Position l/h/w [mm]	107/193/55 / 4.21/7.60/2.17in	115/110/63 / 4.53/4.33/2.48in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

Mounting Accessories

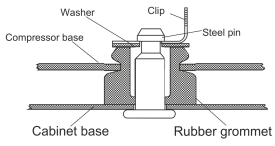


Dimensions in mm [in]

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
SC18MLX Configuration 1

Sales code:
104L2138

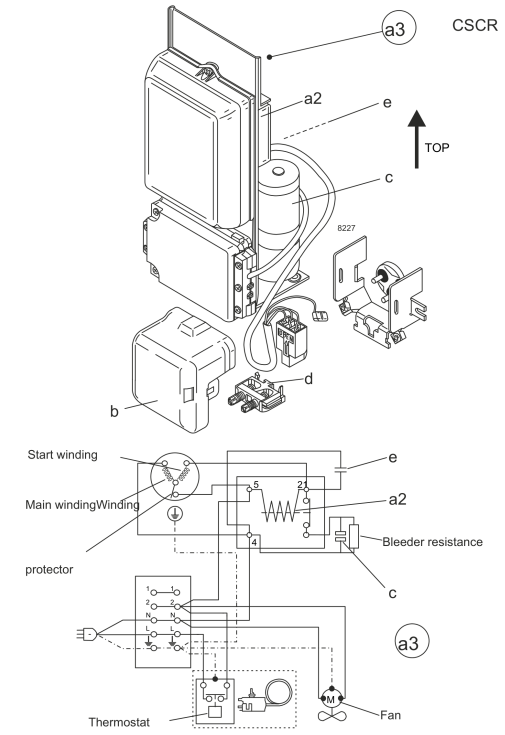
Configuration

Motor configuration	**CSCR**
Power supply (nominal)	**208-230 V/60 Hz 1~**
Refrigerant	**R404A**
Application	**MBP**
Voltage range	**187-254 V**
Starting torque	**HST**
Approvals	**UL, KC**
Starting device type	**relay**
Run capacitor	**10 µF**
Start capacitor	**80 µF**
LRA (locked rotor amps / 4s/ U(N))	**32.5 A**
RLA (rated load amps / 1s/ U(N))	**6.2 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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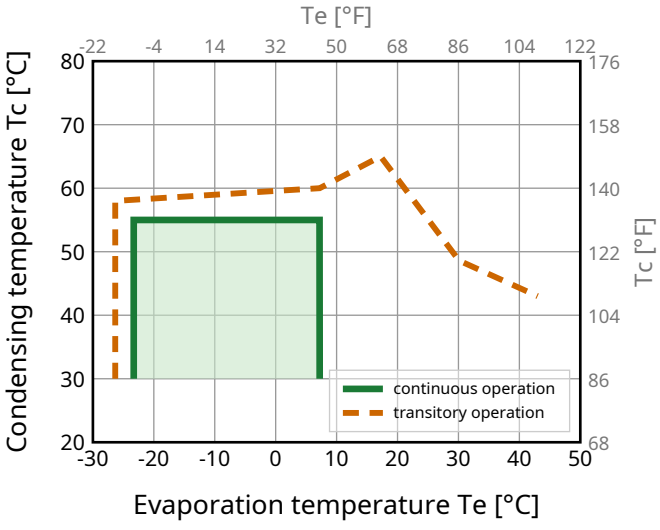
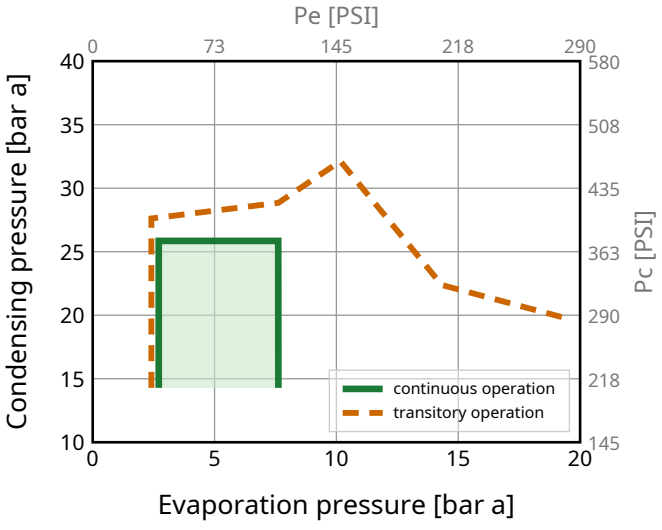
Components
a3 SC starter kit 117-7066
b plastic cover 103N2009
d cord relief 103N1004

Alternative components
a2 potential relay (RVA 2GR134) 117-7445
e run capacitor (10µF, 6.3mm) 117-7121
c start capacitor (80µF) 117U5373
b plastic cover 103N2009
d cord relief 103N1004

Operation Pressure Range





Model
SC18MLX Configuration 1

Sales code:
104L2138

Standard Conditions

R404A, 230 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	**1866**	6365	1604	**1.47**	5.02	1267	6.71	51.25	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**1393**	4752	1198	**1.17**	3.98	1194	6.43	44.52	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**1632**	5570	1404	**1.44**	4.92	1131	6.21	49.09	**EN12900 MBP**
-6.7 20	48.8 119.8	18.3 64.9	48.8 119.8	**1698**	5795	1461	**1.39**	4.74	1223	6.55	55.34	**ARI540 MBP**
-10 14	45 113	32 89.6	45 113	**1732**	5909	1489	**1.53**	5.22	1131	6.21	47.61	**opt MBP 1**
-25 -13	45 113	32 89.6	45 113	**914**	3118	786	**1.06**	3.63	860	5.33	24.59	**opt MBP 2**

Performance Tables

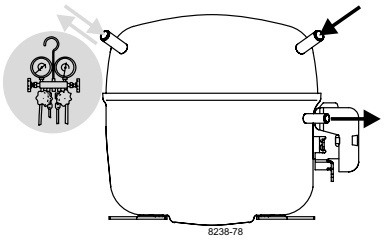
R404A, 230 V/60 Hz, CSCR, fan 3m/s

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	**986**	3365	848	**1.11**	3.78	890	5.42	26.59
-20	-4	**1140**	3891	981	**1.20**	4.10	949	5.59	30.88
-15	5	**1412**	4816	1214	**1.36**	4.63	1039	5.88	38.49
-10	14	**1732**	5909	1489	**1.53**	5.22	1131	6.21	47.61
-5	23	**2106**	7186	1811	**1.72**	5.86	1226	6.56	58.46
0	32	**2538**	8661	2183	**1.92**	6.54	1325	6.96	71.28
5	41	**3034**	10352	2609	**2.12**	7.24	1429	7.38	86.36
7.2	45	**3273**	11168	2815	**2.22**	7.56	1477	7.58	93.79

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

-23.3	-10	**763**	2602	656	**0.87**	2.97	877	5.42	23.84
-20	-4	**893**	3046	768	**0.93**	3.18	957	5.65	28.03
-15	5	**1122**	3827	965	**1.04**	3.56	1076	6.02	35.51
-10	14	**1393**	4752	1198	**1.17**	3.98	1194	6.43	44.52
-5	23	**1711**	5838	1471	**1.30**	4.45	1312	6.88	55.31
0	32	**2080**	7099	1789	**1.45**	4.96	1432	7.35	68.16
5	41	**2506**	8552	2156	**1.61**	5.50	1555	7.87	83.42
7.2	45	**2713**	9256	2333	**1.69**	5.75	1610	8.10	91.00



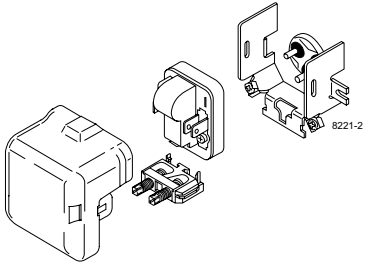
SC Compressors

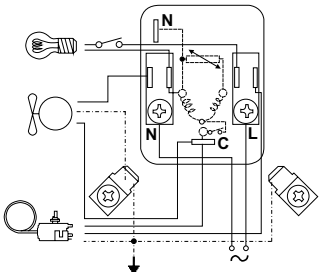
SECOP

Keep electrical equipment clear from oil, chemicals, and water

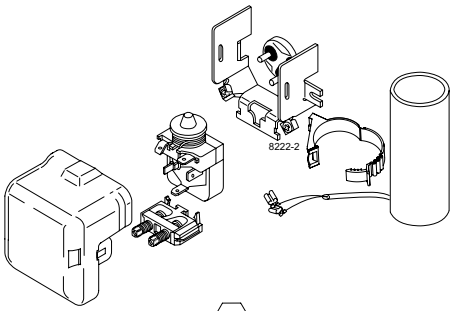
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

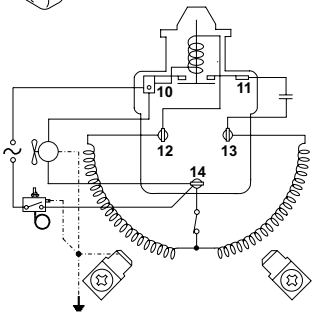
RSIR



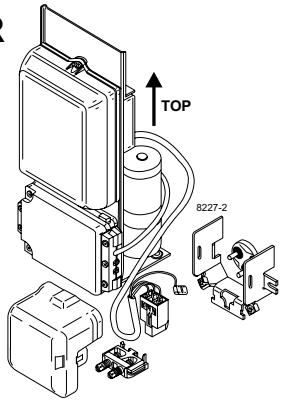


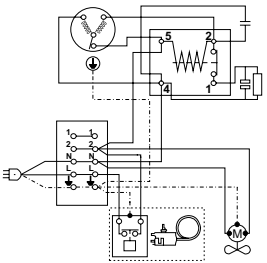
CSIR

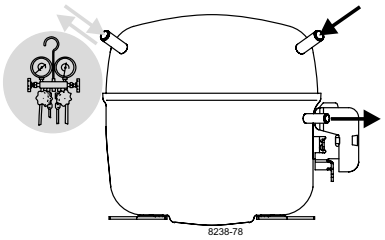




CSCR







SC Compressors

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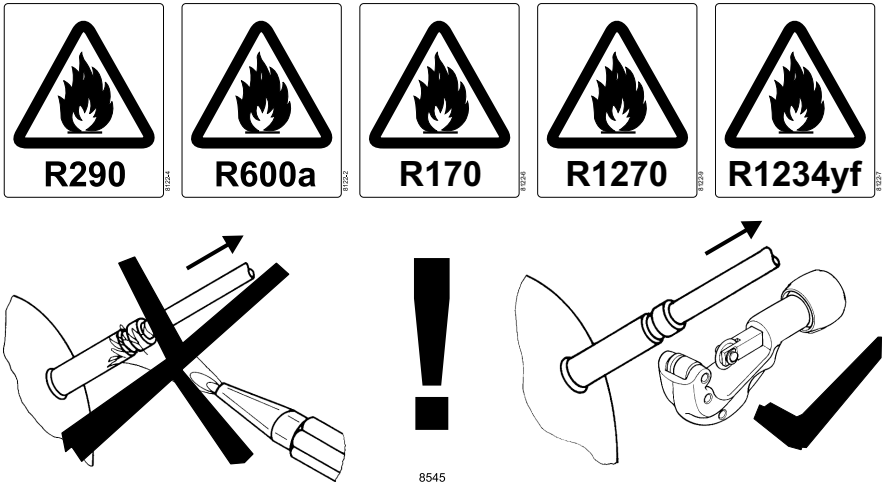
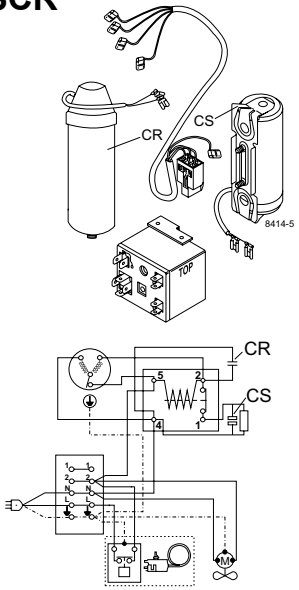
Service/Repair – R290, R600a, R170, R1270, R1234yf

(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**