Single
Packs

Single Pack SC12CLX.2 208-230V 60Hz CSCR

Single pack code number: **195B4418**

Position	Title	Code	Amount
1	Compressor SC12CLX.2	104L2699	1
2	SC starting device (550mm)	117-7027	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
SC12CLX.2

Sales code:
104L2699

Compressor Data

Refrigerant(s)	**R404A / R507**
Refr. charge - tech. limit	**1300g / 45.86oz**
Weight	**13.70 kg / 30.20lbs**
Displacement	**12.87 cm3 / 0.79cu.in**
Compressors on pallet	**80**

General – Configurations With SC12CLX.2

–	**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	LBP
Hot gas defrost	OK
Long interval pull down	OK

Application Notes

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

Model

SC12CLX.2

Sales code:

104L2699

Compressor Design

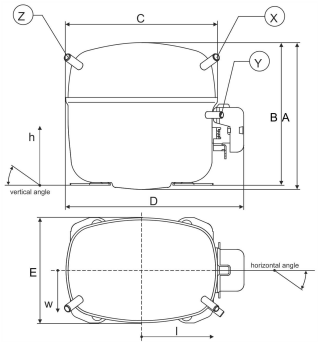
Oil type	**POE**	Winding resistance main	**3.7 Ohm**
Oil viscosity	**32cSt**	Winding resistance aux	**14 Ohm**
Oil quantity	**500 / 16.91fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**1,510 cm3 / 51.06fl.oz**	Max. discharge temp.	**135°C / 275°F**
Motor protection	**internal**		

Compressor Dimensions

Housing

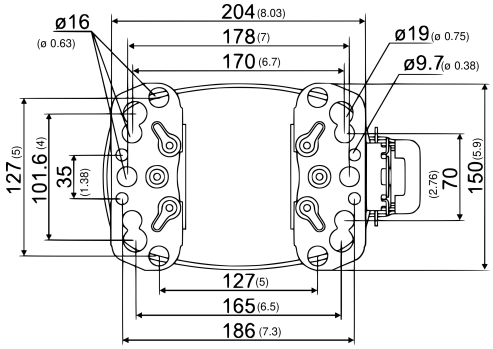
A Height	**219mm / 8.62in**
B Height	**213mm / 8.39in**
C Length shell	**239mm / 9.41in**
D Length w. cover	**255mm / 10.04in**
E Width	**151mm / 5.94in**

Find 3D Model here



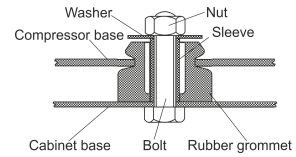
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 9.54–9.72 / 0.38–0.38in	øi 6.41–6.59 / 0.25–0.26in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	143°
Vertical angle ±2°	30°	0°	150°
Position l/h/w [mm]	107/193/55 / 4.21/7.60/2.17in	115/110/63 / 4.53/4.33/2.48in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

Mounting Accessories

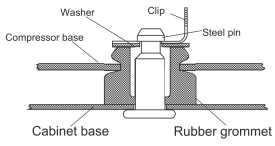


Dimensions in mm [in]

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
SC12CLX.2 Configuration 1

Sales code:
104L2699

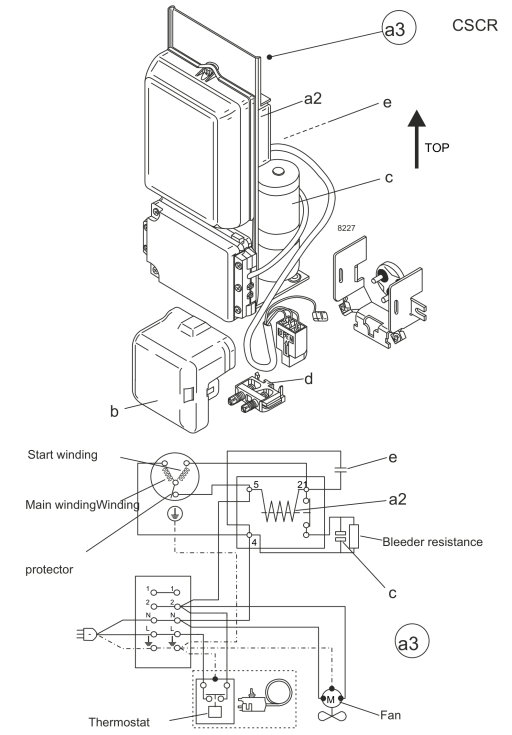
Configuration

Motor configuration	**CSCR**
Power supply (nominal)	**208-230 V/60 Hz 1~**
Refrigerant	**R404A**
Application	**LBP**
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))	**23.4 A**
RLA (rated load amps / 1s/ U(N))	**4.3 A**
Cut in current (U(N))	**23.4 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

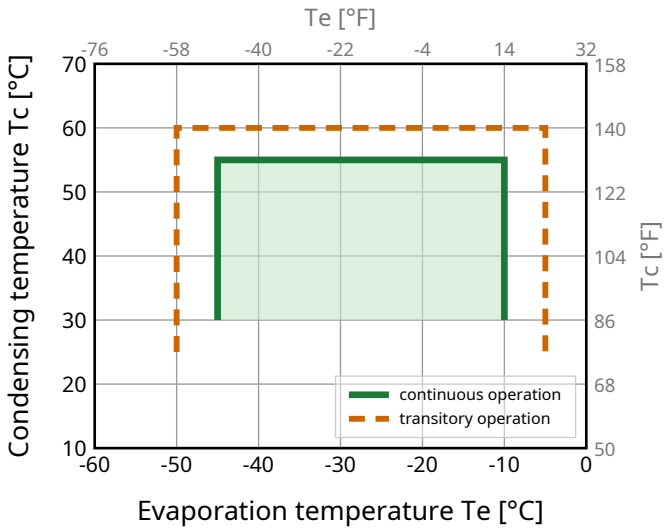


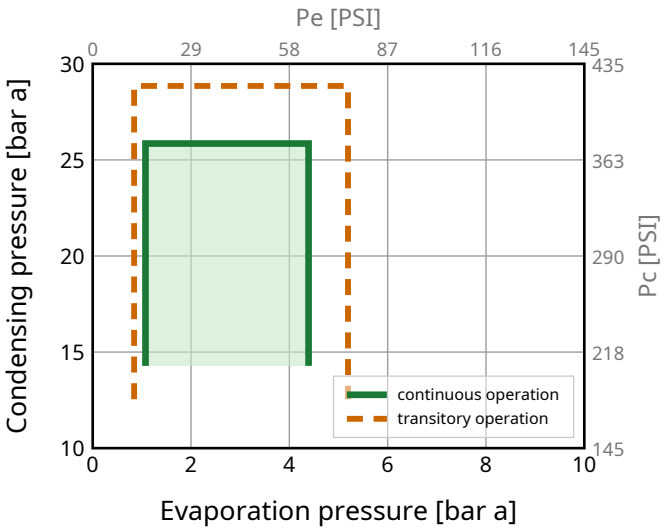
View full size

Components
a3 SC starter kit (550mm) 117-7027
b plastic cover 103N2009
d cord relief 103N1004

Alternative components
a3 SC starter kit (1000mm) 117-7040
a3 SC starter kit (650mm) 117-7046
c start capacitor (80µF) 117U5373
e run capacitor (10µF, 6.3mm) 117-7112

Operation Pressure Range





Model

SC12CLX.2 Configuration 1

Sales code:

104L2699

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]	
-23.3 -10	54.4 129.9	32.2 90	32.2 90	**707**	2412	608	**1.27**	4.33	557	2.30	16.43	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**473**	1613	406	**0.88**	3.01	535	2.23	14.74	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**379**	1292	326	**0.95**	3.24	399	1.95	10.26	**EN12900 LBP**
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	**538**	1836	463	**0.99**	3.38	544	2.30	18.99	**ARI540 LBP**
-23.3 -10	40.6 105.1	32.2 90	32.2 90	**826**	2817	710	**1.57**	5.36	526	2.28	19.19	**AHAM LBP**
-35 -31	45 113	32 89.6	45 113	**343**	1171	295	**0.86**	2.92	401	1.93	9.15	**opt LBP**

Performance Tables

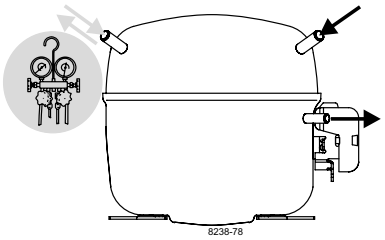
R404A, 230 V/60 Hz, CSCR, fan 3m/s

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]
-45	-49	**141**	481	121	**0.49**	1.68	286	1.70	3.74
-40	-40	**233**	796	201	**0.68**	2.31	344	1.80	6.20
-35	-31	**343**	1171	295	**0.86**	2.92	401	1.93	9.15
-30	-22	**473**	1614	407	**1.03**	3.53	458	2.08	12.66
-25	-13	**626**	2135	538	**1.21**	4.14	515	2.24	16.84
-20	-4	**804**	2743	691	**1.40**	4.77	575	2.42	21.77
-15	5	**1010**	3448	869	**1.58**	5.41	638	2.62	27.55
-10	14	**1248**	4259	1074	**1.77**	6.04	705	2.83	34.32

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

-45	-49	**57**	195	49	**0.22**	0.74	262	1.56	1.75
-40	-40	**138**	471	119	**0.41**	1.41	333	1.70	4.24
-35	-31	**232**	793	200	**0.58**	1.98	401	1.86	7.17
-30	-22	**343**	1170	295	**0.73**	2.50	468	2.03	10.63
-25	-13	**473**	1613	406	**0.88**	3.01	535	2.23	14.74
-20	-4	**624**	2129	537	**1.03**	3.53	603	2.44	19.60
-15	5	**800**	2730	688	**1.19**	4.05	674	2.67	25.33
-10	14	**1004**	3425	863	**1.34**	4.59	747	2.92	32.08



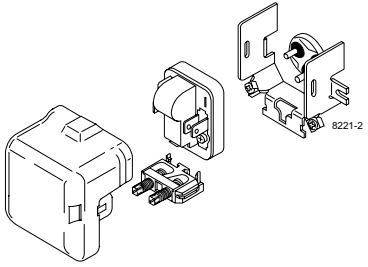
SC Compressors

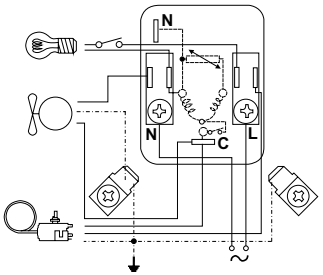
SECOP

Keep electrical equipment clear from oil, chemicals, and water

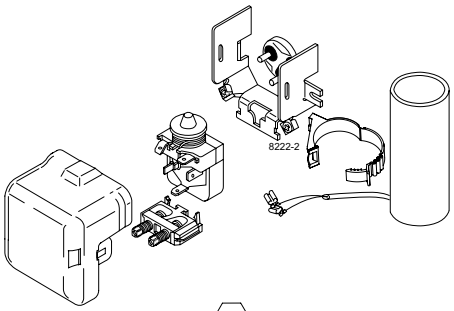
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

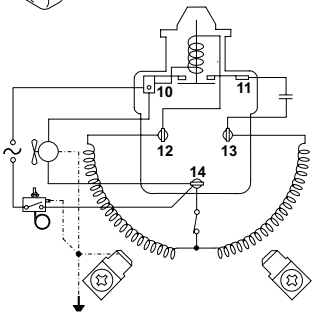
RSIR



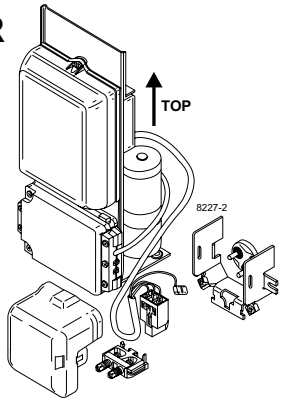


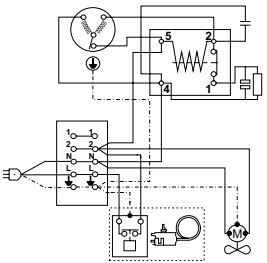
CSIR

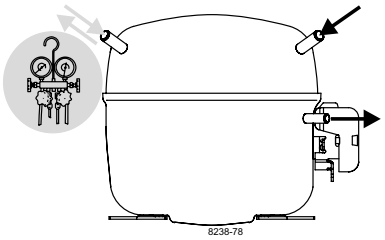




CSCR







SC Compressors

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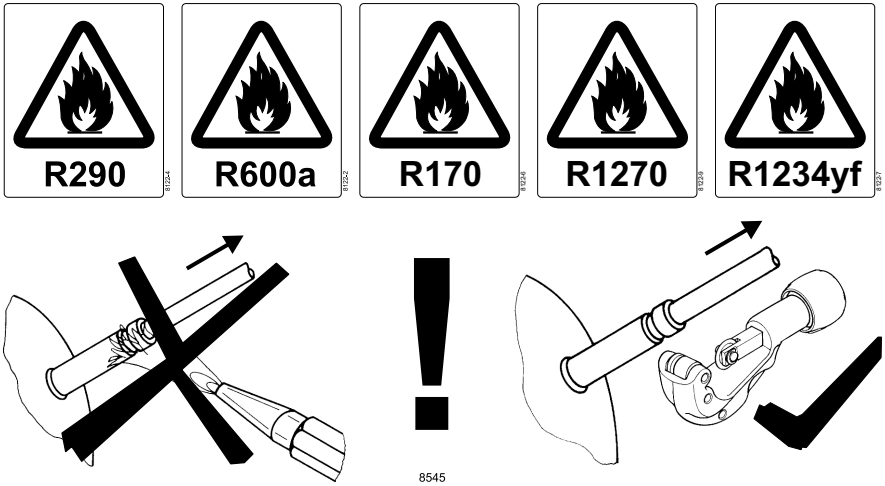
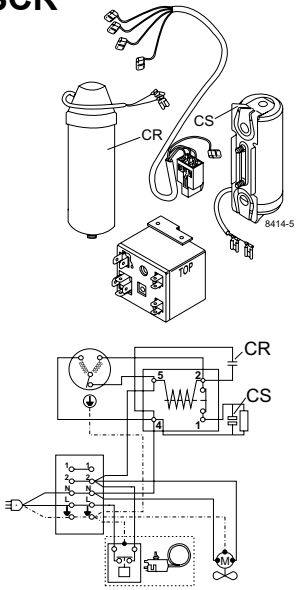
Service/Repair – R290, R600a, R170, R1270, R1234yf

(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**