Single
Packs

Single Pack SC12CNX 220-240V 50Hz CSCR

Single pack code number: **195B4088**

Position	Title	Code	Amount
1	Compressor SC12CNX	104H8265	1
2	SC starting device (550mm)	117-7025	1
3	Cord relief	103N1004	1
4	Cover	103N2009	1
5	Bolt joint for one compressor | M6 | ø16mm	118-1917	1

Secop GmbH • Lise-Meitner-Straße 29 • 24941 Flensburg, Germany • Tel: +49 461 4941 0 • **www.secop.com**

Secop accepts no responsibility for possible errors in catalogs, brochures, and other printed material. Secop reserves the right to alter its products without notice. This also applies to products already on order provided that such alterations can be made without subsequential changes being necessary to specifications already agreed. All trademarks in this material are the property of the respective companies. Secop and the Secop logotype are trademarks of Secop GmbH. All rights reserved.

Model
SC12CNX

Sales code:
104H8265

Compressor Data

Refrigerant(s)	**R290**
Refr. charge - tech. limit	**150g / 5.29oz**
Weight	**13.10 kg / 28.88lbs**
Displacement	**12.87 cm3 / 0.79cu.in**
Compressors on pallet	**80**

General – Configurations With SC12CNX

–	**Conf. 1**
Motor configuration	CSCR
Power supply (nominal)	220-240 V/50 Hz
Number of phases	1
Voltage range	198-254 V
Approvals	VDE
Starting torque	HST
Refrigerant	R290
Application	LBP+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

Model
SC12CNX

Sales code:
104H8265

Compressor Design

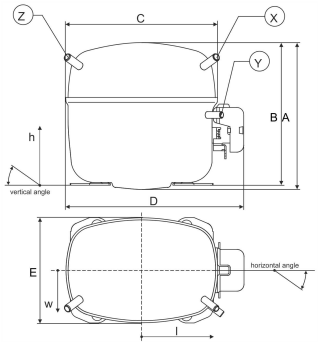
Oil type	**POE**	Winding resistance main	**7.19 Ohm**
Oil viscosity	**32cSt**	Winding resistance aux	**27.23 Ohm**
Oil quantity	**506 / 17.11fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**1,410 cm3 / 47.68fl.oz**	Max. discharge temp.	**130°C / 266°F**
Motor protection	**internal**		

Compressor Dimensions

Housing

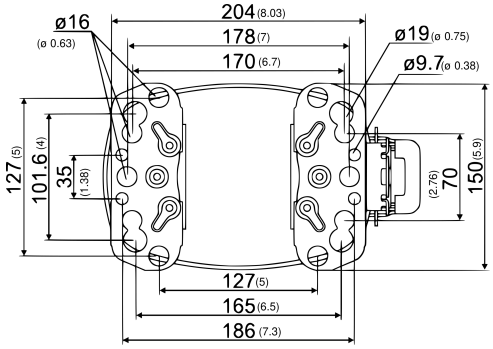
A Height	**209mm / 8.23in**
B Height	**203mm / 7.99in**
C Length shell	**218mm / 8.58in**
D Length w. cover	**255mm / 10.04in**
E Width	**151mm / 5.94in**

Find 3D Model here



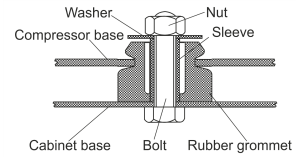
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.11–6.29 / 0.24–0.25in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	143°
Vertical angle ±2°	30°	0°	150°
Position l/h/w [mm]	107/183/55 / 4.21/7.20/2.17in	115/100/63 / 4.53/3.94/2.48in	-107/183/55 / -4.21/7.20/2.17in
Straight tube l. [mm]	12 / 0.47in	12 / 0.47in	12 / 0.47in

Mounting Accessories

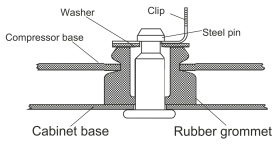


Dimensions in mm [in]

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
SC12CNX Configuration 1

Sales code:
104H8265

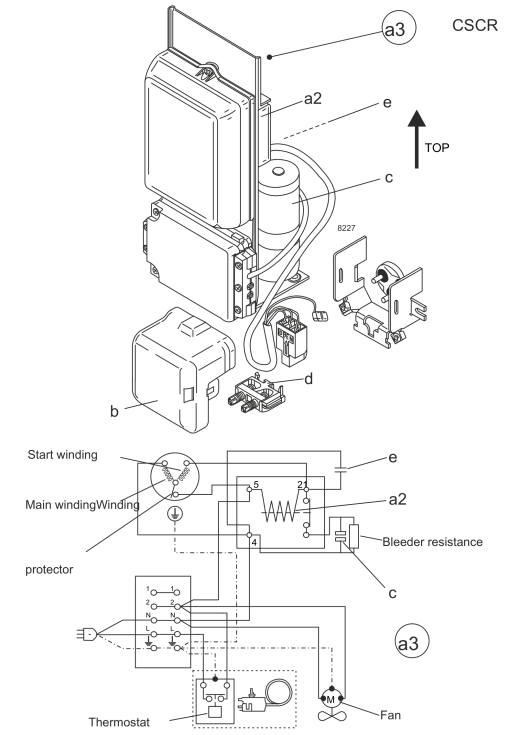
Configuration

Motor configuration	**CSCR**
Power supply (nominal)	**220-240 V/50 Hz 1~**
Refrigerant	**R290**
Application	**LBP+MBP**
Voltage range	**198-254 V**
Starting torque	**HST**
Approvals	**VDE**
Starting device type	**relay**
Run capacitor	**5 µF**
Start capacitor	**40 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 - 43°C / 50 - 109°F
Machine room temp. compressor: 10 - 48°C / 50 - 118°F

System Cooling
fan 3m/s

Electrical Accessories / Wiring Diagram

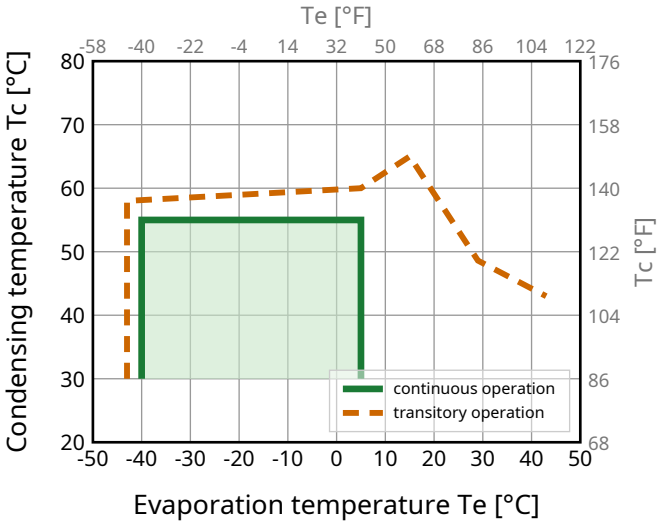


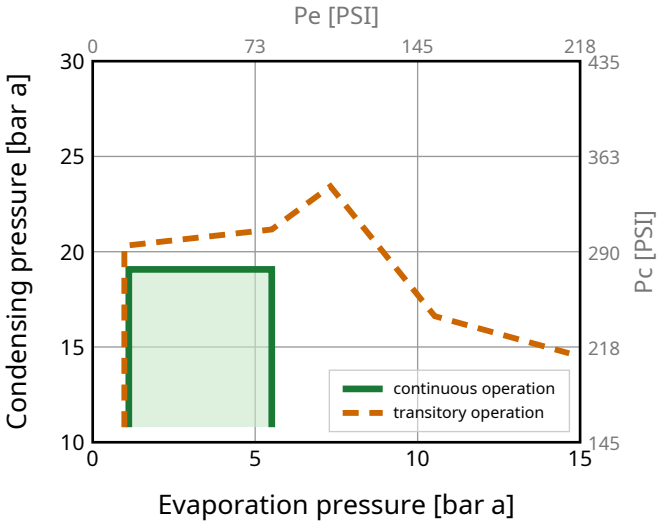
View full size

Components
a3 SC starter kit 117-7025
b plastic cover 103N2009
d cord relief 103N1004

Alternative components
a2 potential relay (RVA 6M3R 339) 117-7425
e run capacitor (5µF, 6.3mm) 117-7111
c start capacitor (40µF, 6.3mm) 117U5372
b plastic cover 103N2009
d cord relief 103N1004

Operation Pressure Range





Model

SC12CNX Configuration 1

Sales code:

104H8265

Standard Conditions

R290, 220 V/50 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	**476**	1626	410	**1.32**	4.49	362	1.86	4.84	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**351**	1196	302	**1.01**	3.46	346	1.79	4.39	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**270**	923	233	**1.01**	3.43	269	1.44	3.10	**EN12900 LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**924**	3153	795	**1.80**	6.13	514	2.56	10.58	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**720**	2457	619	**1.49**	5.07	485	2.42	9.16	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**814**	2778	700	**1.79**	6.10	456	2.27	10.02	**EN12900 MBP**

Performance Tables

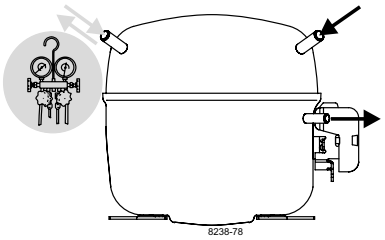
R290, 220 V/50 Hz, CSCR, fan 3m/s

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]
-40	-40	**178**	608	153	**0.77**	2.64	230	1.28	2.00
-30	-22	**331**	1130	285	**1.08**	3.68	307	1.59	3.74
-20	-4	**540**	1842	464	**1.42**	4.84	381	1.92	6.14
-10	14	**846**	2888	728	**1.86**	6.34	456	2.27	9.72
0	32	**1293**	4412	1112	**2.42**	8.25	535	2.63	15.04
5	41	**1582**	5398	1361	**2.74**	9.36	576	2.81	18.54

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

-40	-40	**104**	355	90	**0.51**	1.75	203	1.19	1.29
-30	-22	**262**	893	225	**0.88**	2.99	299	1.59	3.27
-20	-4	**453**	1546	390	**1.16**	3.94	392	2.00	5.70
-10	14	**720**	2457	619	**1.49**	5.07	485	2.42	9.16
0	32	**1105**	3772	951	**1.91**	6.50	580	2.87	14.26
5	41	**1356**	4625	1166	**2.15**	7.34	630	3.09	17.63



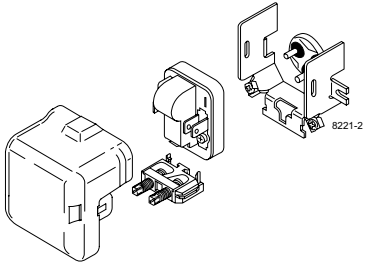
SC Compressors

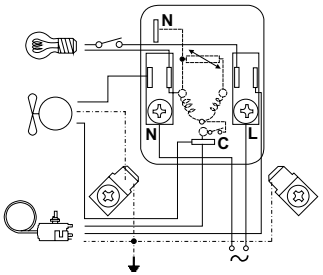
SECOP

Keep electrical equipment clear from oil, chemicals, and water

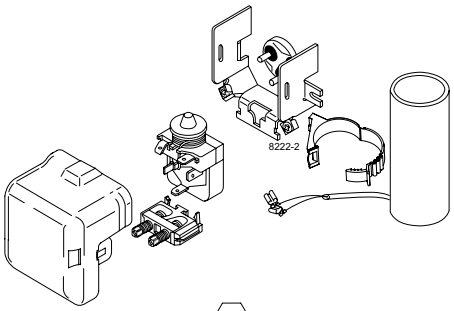
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

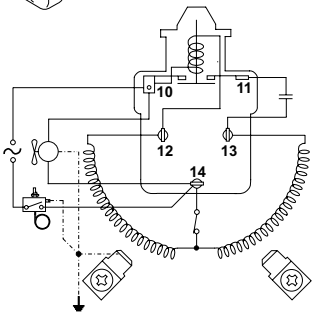
RSIR



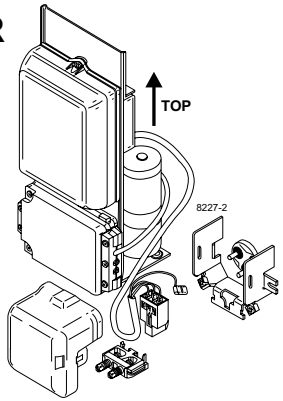


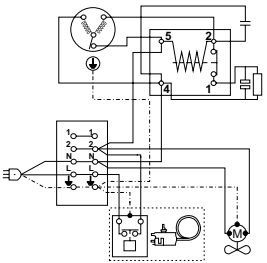
CSIR

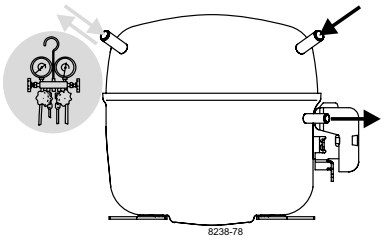




CSCR







SC Compressors

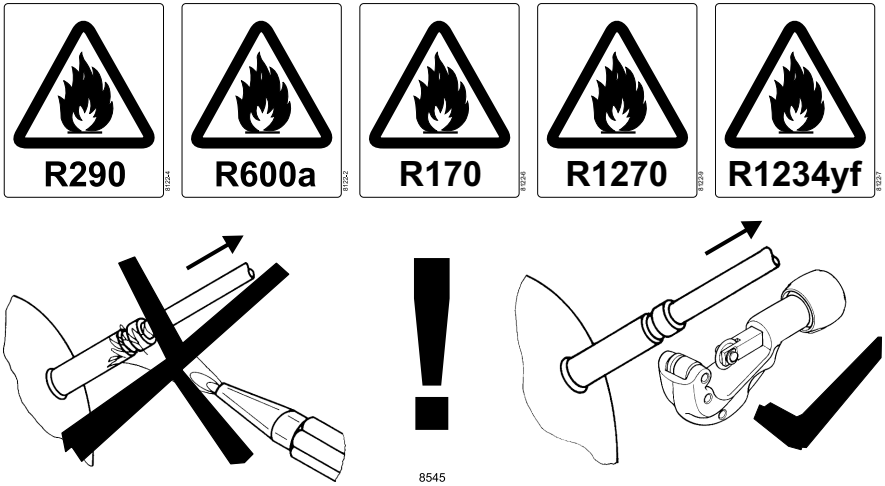
SECOP

Keep electrical equipment clear from oil, chemicals, and water

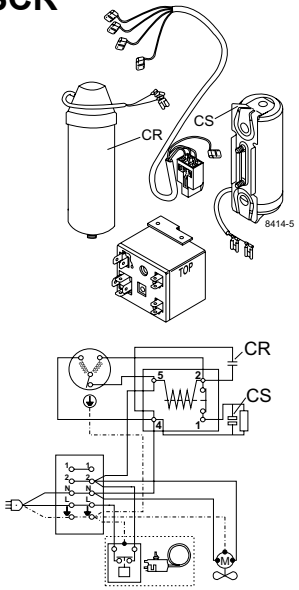
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

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

(applies to all flammable refrigerants)



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**