Singolo
Imballi

Single Pack SC15CNX 220-240V 50Hz CSCR

Codice Imballo Singolo: **195B4089**

Posizione	Titolo	Codice	Quantità
1	Compressor SC15CNX	104H8565	1
2	SC starting device (550mm)	117-7031	1
3	Cord relief	103N1004	1
4	Cover	103N2009	1
5	Bolt joint for one compressor | M6 | ø16mm	118-1917	1

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Model
SC15CNX

Sales code:
104H8565

Compressor Data

Refrigerant(s)	**R290**
Refr. charge - tech. limit	**150g / 5.29oz**
Weight	**13.10 kg / 28.88lbs**
Displacement	**15.28 cm3 / 0.93cu.in**
Compressors on pallet	**80**

General – Configurations With SC15CNX

–	**Conf. 1**
Motor configuration	CSCR
Power supply (nominal)	220-240 V/50 Hz
Number of phases	1
Voltage range	198-254 V
Approvals	VDE, CCC, EAC
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

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Compressor Design

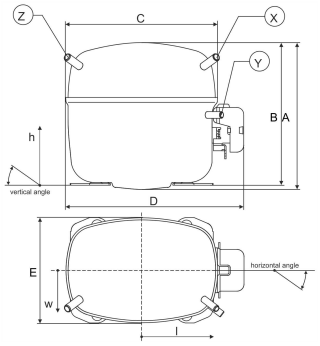
Oil type	**POE**	Winding resistance main	**5.13 Ohm**
Oil viscosity	**32cSt**	Winding resistance aux	**13.51 Ohm**
Oil quantity	**506 / 17.11fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**1,410 cm3 / 47.68fl.oz**	Max. discharge temp.	**135°C / 275°F**
Motor protection	**internal**		

Compressor Dimensions

Housing

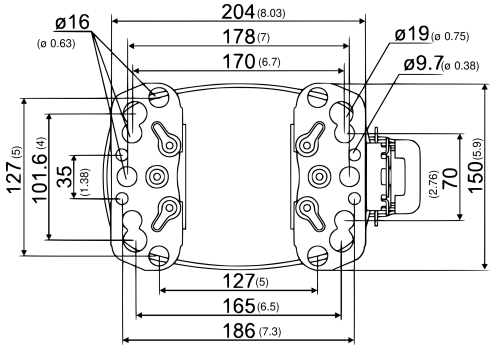
A Height	**209mm / 8.23in**
B Height	**203mm / 7.99in**
C Length shell	**218mm / 8.58in**
D Length w. cover	**255mm / 10.04in**
E Width	**151mm / 5.94in**

Find 3D Model here



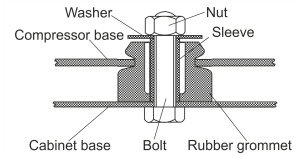
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 10.11–10.29 / 0.40–0.41in	øi 6.11–6.29 / 0.24–0.25in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	143°
Vertical angle ±2°	30°	0°	150°
Position l/h/w [mm]	107/183/55 / 4.21/7.20/2.17in	115/100/63 / 4.53/3.94/2.48in	-107/183/55 / -4.21/7.20/2.17in
Straight tube l. [mm]	12 / 0.47in	12 / 0.47in	12 / 0.47in

Mounting Accessories

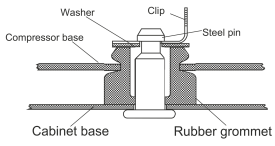


Dimensions in mm [in]

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
SC15CNX Configuration 1

Sales code:
104H8565

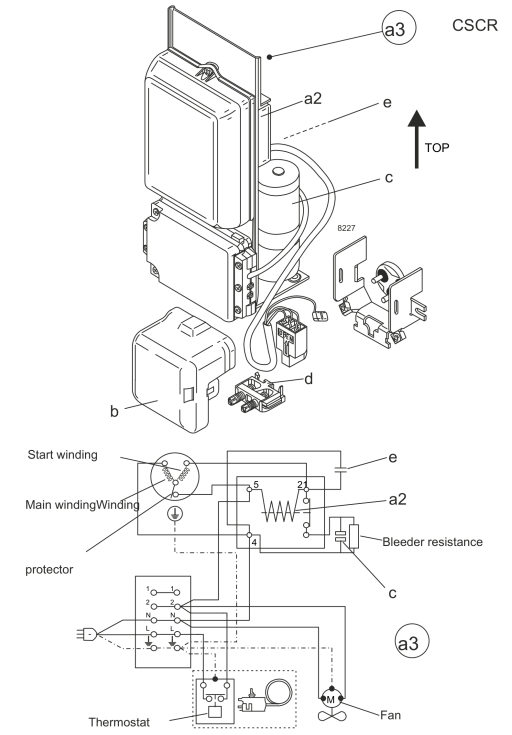
Configuration

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, CCC, EAC**
Starting device type	**relay**
Run capacitor	**10 µF**
Start capacitor	**80 µF**
LRA (locked rotor amps / 4s/ U(N))	**16.2 A**
RLA (rated load amps / 1s/ U(N))	**3.1 A**
Cut in current (U(N))	**16.2 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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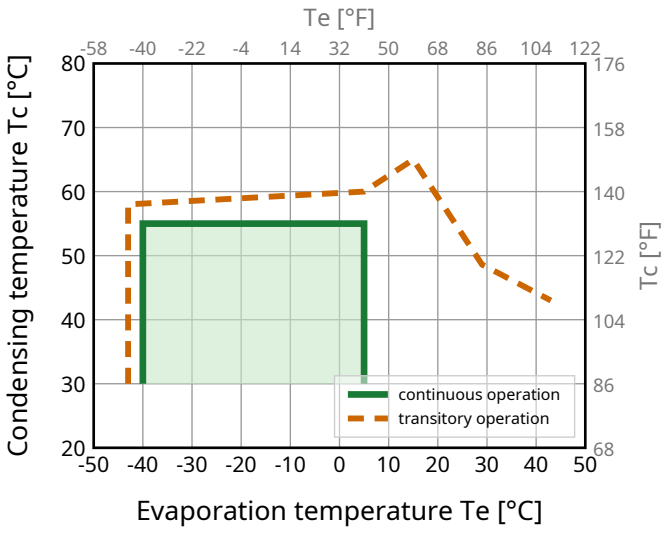
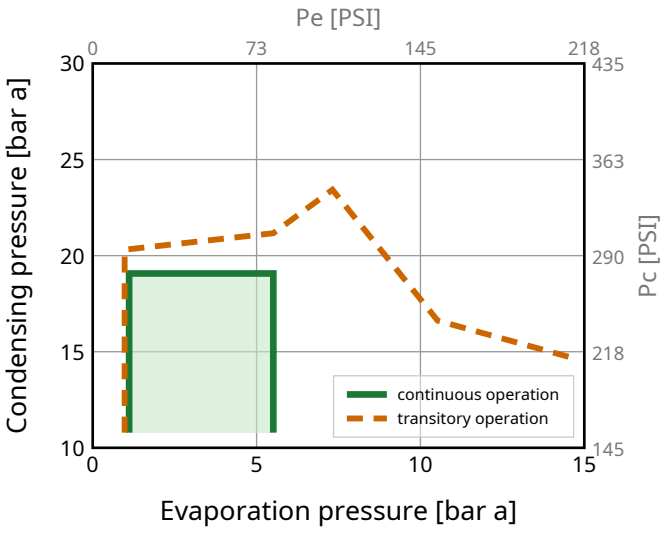
Components
a3 SC starter kit 117-7031
b plastic cover 103N2009
d cord relief 103N1004

Alternative components
a2 potential relay (RVA 413340) 117-7426
e run capacitor (10µF, 6.3mm) 117-7112
c start capacitor (80µF) 117U5373

Operation Pressure Range





Model
SC15CNX Configuration 1

Sales code:
104H8565

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	**599**	2042	515	**1.36**	4.63	441	2.16	6.08	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**434**	1481	373	**1.04**	3.54	418	2.04	5.44	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**335**	1143	288	**1.03**	3.51	325	1.60	3.84	**EN12900 LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**1184**	4039	1018	**1.83**	6.25	647	3.23	13.55	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**928**	3167	798	**1.52**	5.20	609	3.03	11.80	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**1051**	3587	904	**1.88**	6.40	560	2.82	12.94	**EN12900 MBP**

Performance Tables

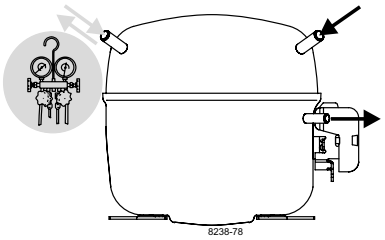
R290, 220 V/50 Hz, CSCR, fan 3m/s

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	**195**	665	168	**0.76**	2.60	256	1.28	2.19
-30	-22	**415**	1415	357	**1.12**	3.83	370	1.82	4.68
-20	-4	**707**	2412	608	**1.51**	5.16	467	2.33	8.04
-10	14	**1093**	3730	940	**1.95**	6.66	560	2.82	12.55
0	32	**1594**	5439	1371	**2.42**	8.25	659	3.27	18.54
5	41	**1894**	6463	1629	**2.65**	9.05	714	3.49	22.20

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

-40	-40	**104**	353	89	**0.53**	1.82	195	0.98	1.29
-30	-22	**309**	1055	266	**0.89**	3.02	350	1.69	3.86
-20	-4	**577**	1969	496	**1.19**	4.07	484	2.37	7.26
-10	14	**928**	3167	798	**1.52**	5.20	609	3.03	11.80
0	32	**1383**	4720	1190	**1.88**	6.41	736	3.65	17.84
5	41	**1656**	5652	1425	**2.06**	7.04	803	3.96	21.55



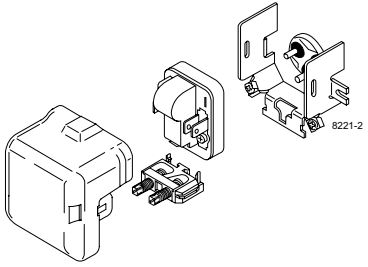
SC Compressors

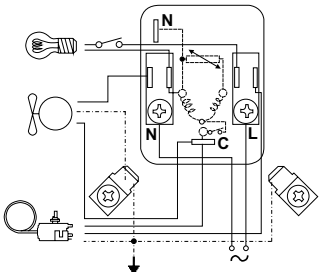
SECOP

Keep electrical equipment clear from oil, chemicals, and water

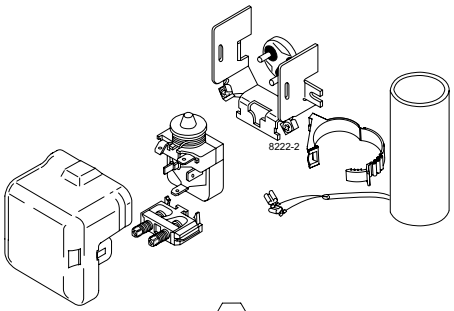
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

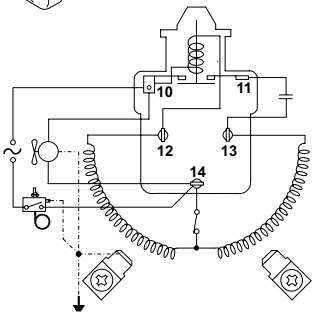
RSIR



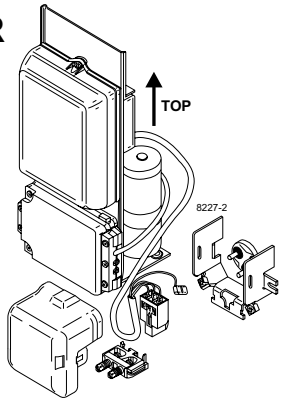


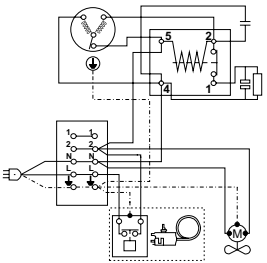
CSIR

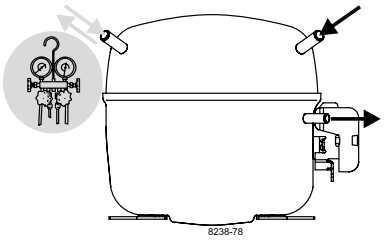




CSCR







SC Compressors

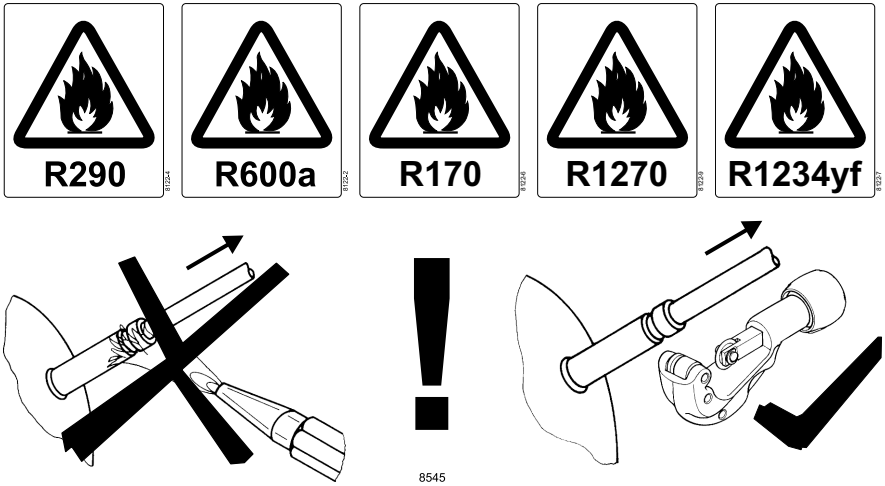
SECOP

Keep electrical equipment clear from oil, chemicals, and water

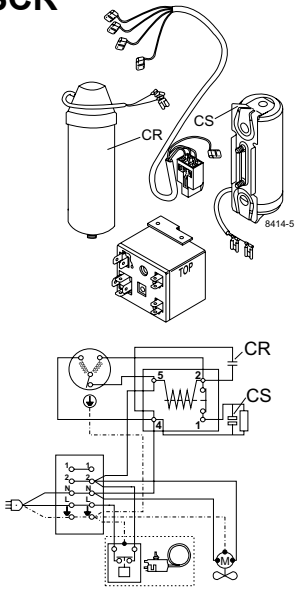
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

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**