Single
Packs

Single Pack SC18CNX 220-240V 50Hz CSCR

Single pack code number: **195B4090**

Position	Title	Code	Amount
1	Compressor SC18CNX	104H8865	1
2	SC starting device (550mm)	117-7052	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
SC18CNX

Sales code:
104H8865

Compressor Data

Refrigerant(s)	**R290**
Refr. charge - tech. limit	**150g / 5.29oz**
Weight	**13.10 kg / 28.88lbs**
Displacement	**17.69 cm3 / 1.08cu.in**
Compressors on pallet	**80**

General – Configurations With SC18CNX

–	**Conf. 1**
Motor configuration	CSCR
Power supply (nominal)	220-240 V/50 Hz
Number of phases	1
Voltage range	198-254 V
Approvals	CCC, 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
SC18CNX

Sales code:
104H8865

Compressor Design

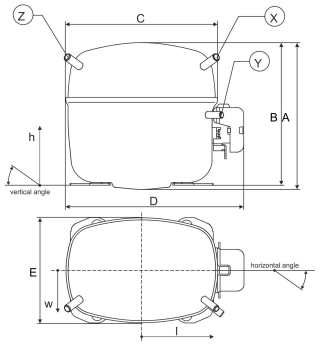
Oil type	**POE**	Winding resistance main	**4.6 Ohm**
Oil viscosity	**32cSt**	Winding resistance aux	**17.8 Ohm**
Oil quantity	**550 / 18.60fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**1,410 cm3 / 47.68fl.oz**	Max. discharge temp.	**135°C / 275°F**
Motor protection	**internal**		

Compressor Dimensions

Housing

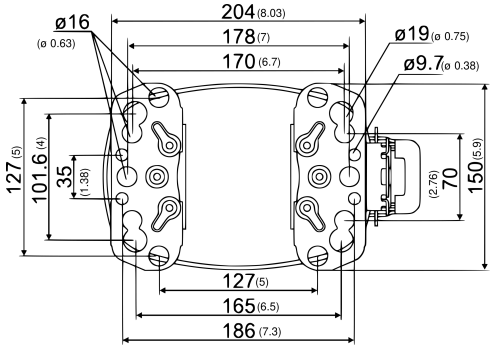
A Height	**209mm / 8.23in**
B Height	**203mm / 7.99in**
C Length shell	**218mm / 8.58in**
D Length w. cover	**255mm / 10.04in**
E Width	**151mm / 5.94in**

Find 3D Model here



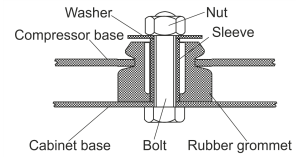
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 10.11–10.29 / 0.40–0.41in	øi 6.11–6.29 / 0.24–0.25in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	143°
Vertical angle ±2°	30°	0°	150°
Position l/h/w [mm]	107/183/55 / 4.21/7.20/2.17in	115/100/63 / 4.53/3.94/2.48in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

Mounting Accessories

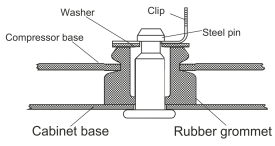


Dimensions in mm [in]

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
SC18CNX Configuration 1

Sales code:
104H8865

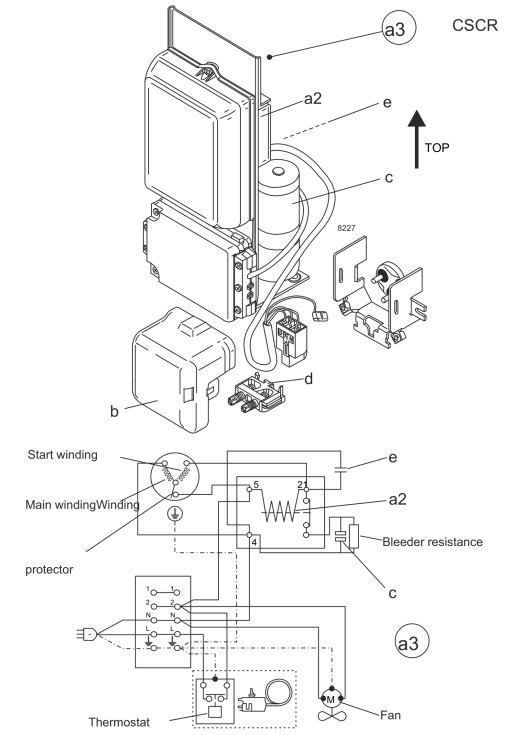
Configuration

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	**CCC, VDE**
Starting device type	**relay**
Run capacitor	**10 µF**
Start capacitor	**80 µF**
RLA (rated load amps / 1s/ U(N))	**-/-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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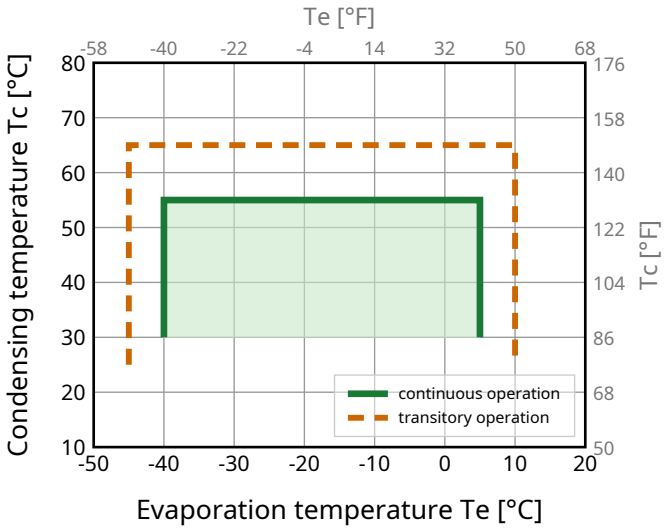
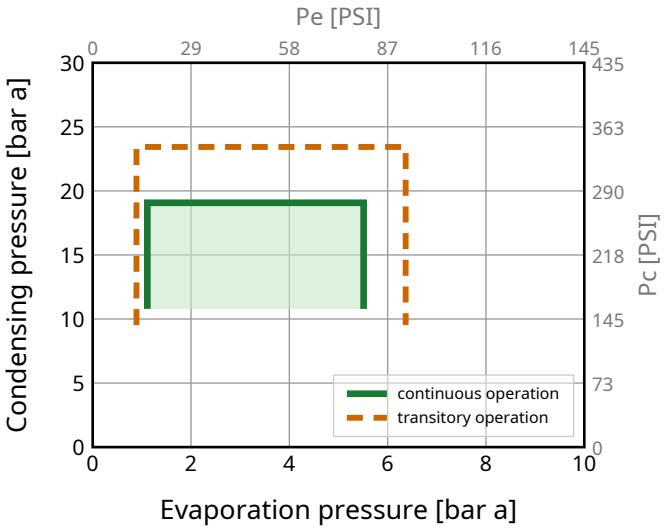
Components
a3 SC starter kit 117-7052
b plastic cover 103N2009
d cord relief 103N1004

Alternative components
a3 SC starter kit 117-9718

Operation Pressure Range





Model

SC18CNX Configuration 1

Sales code:

104H8865

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	**730**	2490	628	**1.36**	4.65	536	2.72	7.42	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**534**	1822	459	**1.05**	3.58	510	2.61	6.70	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**379**	1292	326	**1.00**	3.42	378	2.10	4.35	**EN12900 LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**1412**	4816	1214	**1.74**	5.95	810	3.71	16.16	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**1114**	3802	958	**1.48**	5.03	756	3.53	14.17	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**1224**	4176	1053	**1.73**	5.91	707	3.32	15.06	**EN12900 MBP**

Performance Tables

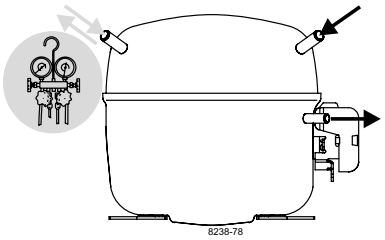
R290, 220 V/50 Hz, CSCR, fan 3m/s

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	**219**	747	188	**0.72**	2.46	304	1.80	2.46
-30	-22	**480**	1637	413	**1.10**	3.77	435	2.34	5.42
-20	-4	**824**	2810	708	**1.45**	4.96	566	2.85	9.37
-10	14	**1272**	4341	1094	**1.80**	6.14	707	3.32	14.61
0	32	**1849**	6310	1590	**2.14**	7.30	864	3.76	21.50
5	41	**2193**	7483	1886	**2.30**	7.86	952	3.97	25.70

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

-40	-40	**137**	468	118	**0.50**	1.71	274	1.63	1.70
-30	-22	**385**	1314	331	**0.89**	3.05	431	2.29	4.81
-20	-4	**703**	2400	605	**1.19**	4.07	589	2.93	8.85
-10	14	**1114**	3802	958	**1.48**	5.03	756	3.53	14.17
0	32	**1641**	5598	1411	**1.75**	5.96	938	4.10	21.16
5	41	**1954**	6668	1681	**1.88**	6.42	1039	4.37	25.42



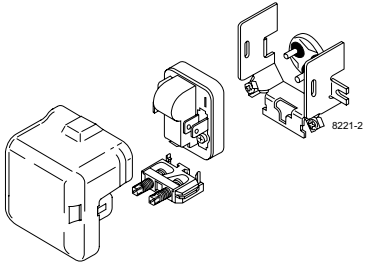
SC Compressors

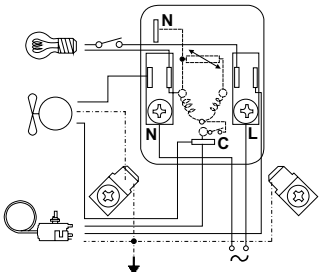
SECOP

Keep electrical equipment clear from oil, chemicals, and water

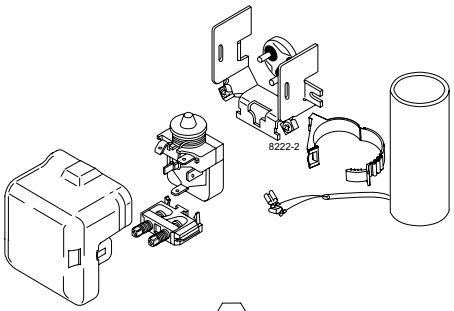
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

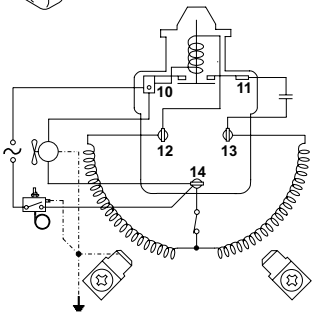
RSIR



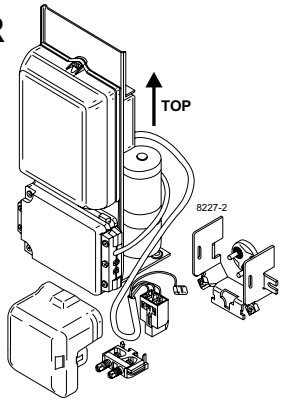


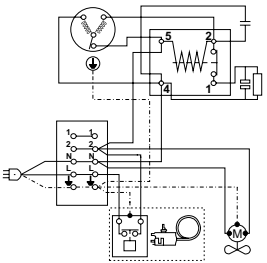
CSIR

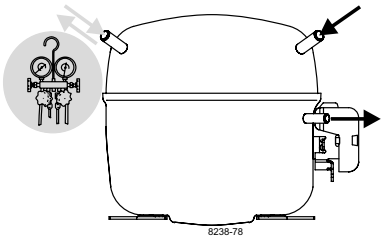




CSCR







SC Compressors

SECOP

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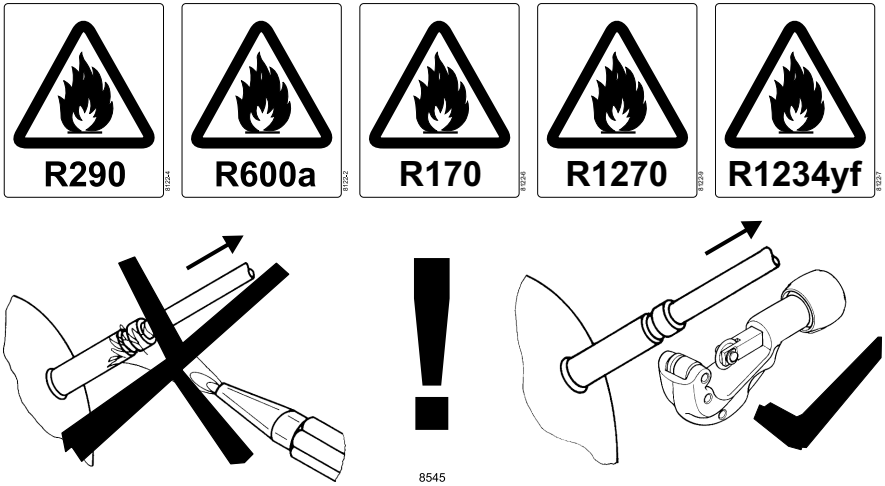
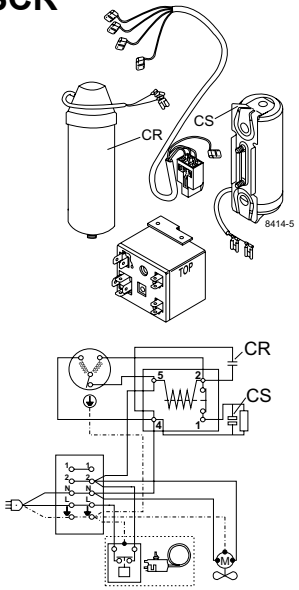
Service/Repair – R290, R600a, R170, R1270, R1234yf

(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**