Single
Packs

Single Pack SC21CNLX.2 208-230V 60Hz CSCR

Single pack code number: **195B4267**

Position	Title	Code	Amount
1	Compressor SC21CNLX.2	104H8177	1
2	SC starting device (550mm)	117-7066	1
3	Cord relief	103N1010	1
4	Cover	103N2008	1
5	Bolt joint for one compressor | M6 | ø16mm	118-1917	1

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Model
SC21CNLX.2

Sales code:
104H8177

Compressor Data

Refrigerant(s)	**R290**
Refr. charge - tech. limit	**150g / 5.29oz**
Weight	**14.10 kg / 31.09lbs**
Displacement	**20.95 cm3 / 1.28cu.in**
Compressors on pallet	**80**

General – Configurations With SC21CNLX.2

–	**Conf. 1**
Motor configuration	CSCR
Power supply (nominal)	208-230 V/60 Hz
Number of phases	1
Voltage range	198-254 V
Approvals	UL
Starting torque	HST
Refrigerant	R290
Application	LBP
Hot gas defrost	OK

Application Notes

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

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Compressor Design

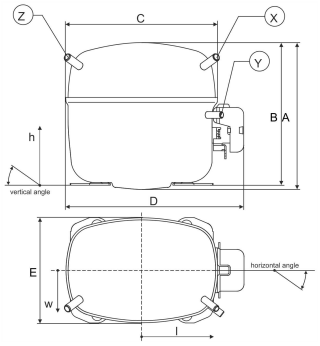
Oil type	**POE**	Winding resistance main	**2.7 Ohm**
Oil viscosity	**32cSt**	Winding resistance aux	**9.5 Ohm**
Oil quantity	**550 / 18.60fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**1,410 cm3 / 47.68fl.oz**	Max. discharge temp.	**135°C / 275°F**
Motor protection	**internal**		

Compressor Dimensions

Housing

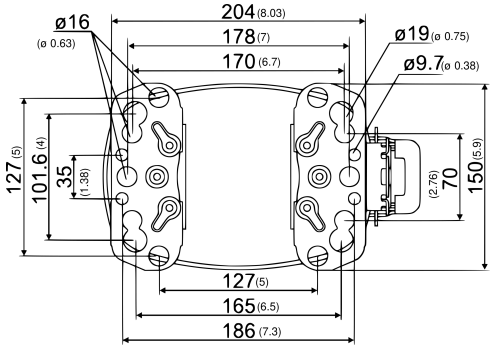
A Height	**219mm / 8.62in**
B Height	**213mm / 8.39in**
C Length shell	**218mm / 8.58in**
D Length w. cover	**255mm / 10.04in**
E Width	**151mm / 5.94in**

Find 3D Model here



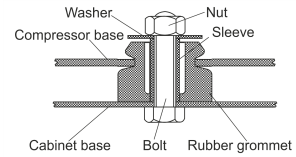
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 9.54–9.72 / 0.38–0.38in	øi 6.41–6.59 / 0.25–0.26in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	143°
Vertical angle ±2°	30°	0°	150°
Position l/h/w [mm]	107/193/55 / 4.21/7.60/2.17in	115/110/63 / 4.53/4.33/2.48in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

Mounting Accessories

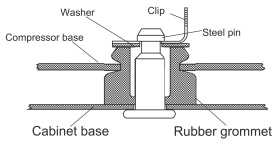


Dimensions in mm [in]

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
SC21CNLX.2 Configuration 1

Sales code:
104H8177

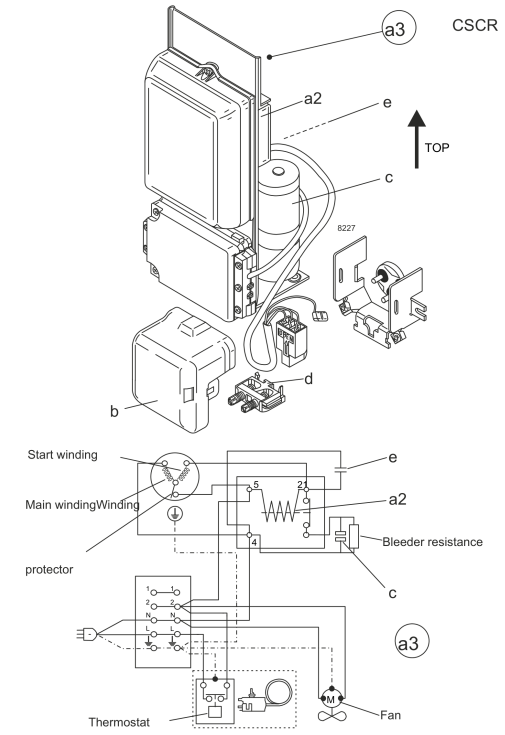
Configuration

Motor configuration	**CSCR**
Power supply (nominal)	**208-230 V/60 Hz 1~**
Refrigerant	**R290**
Application	**LBP**
Voltage range	**198-254 V**
Starting torque	**HST**
Approvals	**UL**
Starting device type	**relay**
Run capacitor	**10 µF**
Start capacitor	**80 µF**
LRA (locked rotor amps / 4s/ U(N))	**27 A**
RLA (rated load amps / 1s/ U(N))	**4.6 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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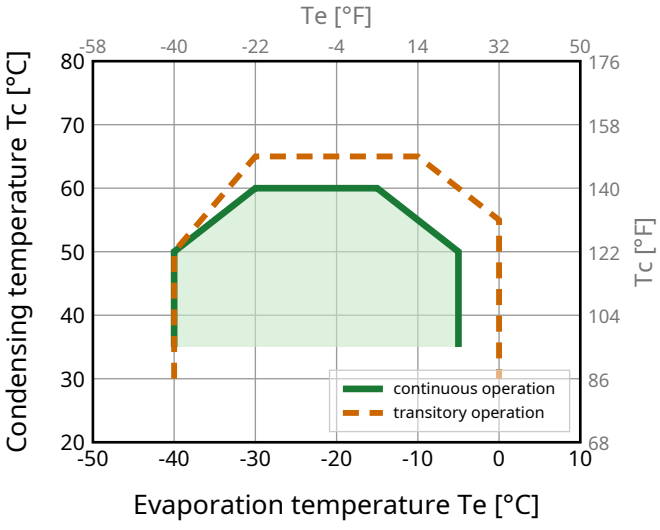
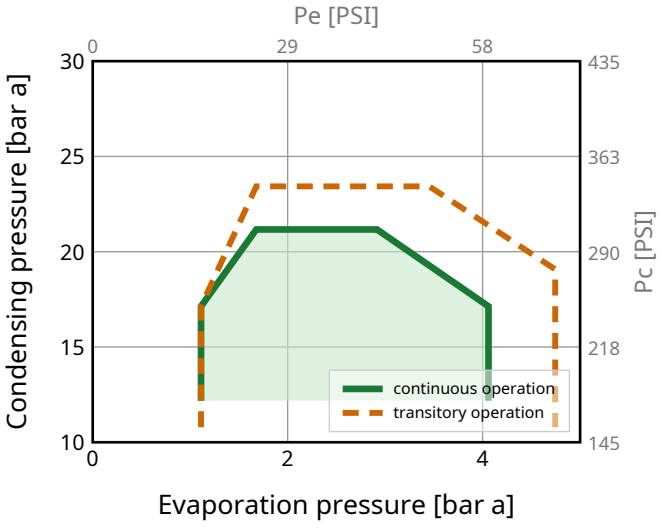
Components
a3 SC starter kit 117-7066
b plastic cover 103N2008
d cord relief 103N1004

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 103N2008
d cord relief 103N1004

Operation Pressure Range





Model

SC21CNLX.2 Configuration 1

Sales code:

104H8177

Standard Conditions

R290, 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	**1142**	3897	982	**1.46**	4.96	785	3.86	11.60	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**856**	2921	736	**1.13**	3.85	758	3.75	10.73	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**645**	2202	555	**1.09**	3.71	593	2.78	7.41	**EN12900 LBP**
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	**929**	3169	799	**1.21**	4.11	770	3.70	12.90	**ARI540 LBP**
-23.3 -10	40.6 105.1	32.2 90	32.2 90	**1202**	4102	1034	**1.62**	5.52	743	3.42	12.21	**AHAM LBP**
-35 -31	45 113	32 89.6	45 113	**604**	2059	519	**1.05**	3.58	576	2.85	6.80	**opt LBP**

Performance Tables

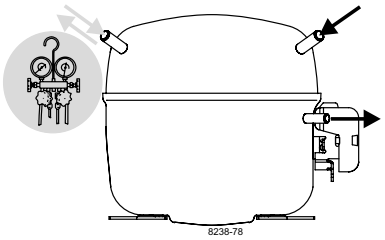
R290, 230 V/60 Hz, CSCR, fan 3m/s

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]
-40	-40	**390**	1330	335	**0.91**	3.09	431	2.53	4.38
-35	-31	**604**	2059	519	**1.05**	3.58	576	2.85	6.80
-30	-22	**802**	2736	690	**1.19**	4.06	674	3.17	9.06
-25	-13	**1001**	3415	861	**1.35**	4.62	740	3.46	11.34
-20	-4	**1215**	4147	1045	**1.54**	5.25	789	3.72	13.83
-15	5	**1461**	4984	1256	**1.74**	5.95	838	3.95	16.69
-10	14	**1753**	5981	1507	**1.94**	6.63	902	4.14	20.13
-5	23	**2106**	7187	1812	**2.12**	7.22	995	4.29	24.33

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

-40	-40	**219**	748	188	**0.67**	2.29	326	2.58	2.72
-35	-31	**458**	1561	393	**0.88**	3.01	519	3.00	5.70
-30	-22	**665**	2268	572	**1.01**	3.45	657	3.40	8.30
-25	-13	**856**	2921	736	**1.13**	3.85	758	3.75	10.73
-20	-4	**1047**	3572	900	**1.25**	4.28	836	4.07	13.18
-15	5	**1252**	4274	1077	**1.38**	4.72	906	4.33	15.84
-10	14	**1488**	5078	1280	**1.51**	5.16	985	4.54	18.93
-5	23	**1770**	6038	1522	**1.63**	5.55	1087	4.68	22.65



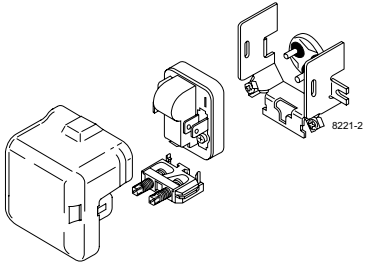
SC Compressors

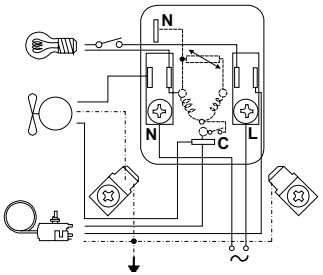
SECOP

Keep electrical equipment clear from oil, chemicals, and water

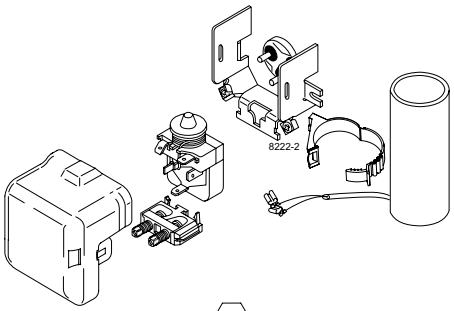
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

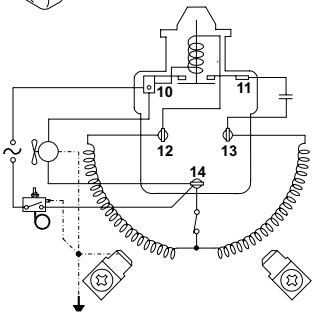
RSIR



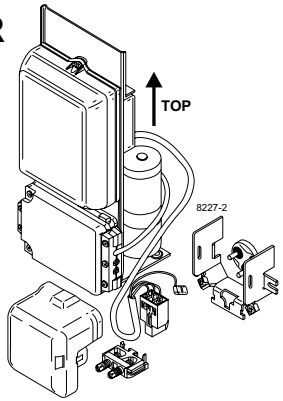


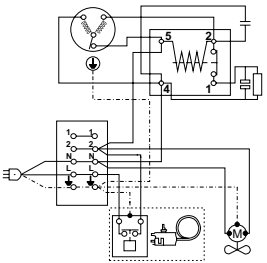
CSIR

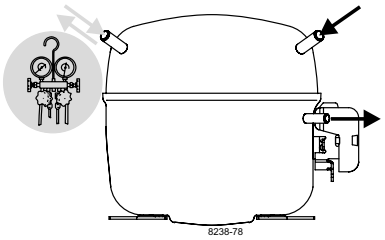




CSCR







SC Compressors

SECOP

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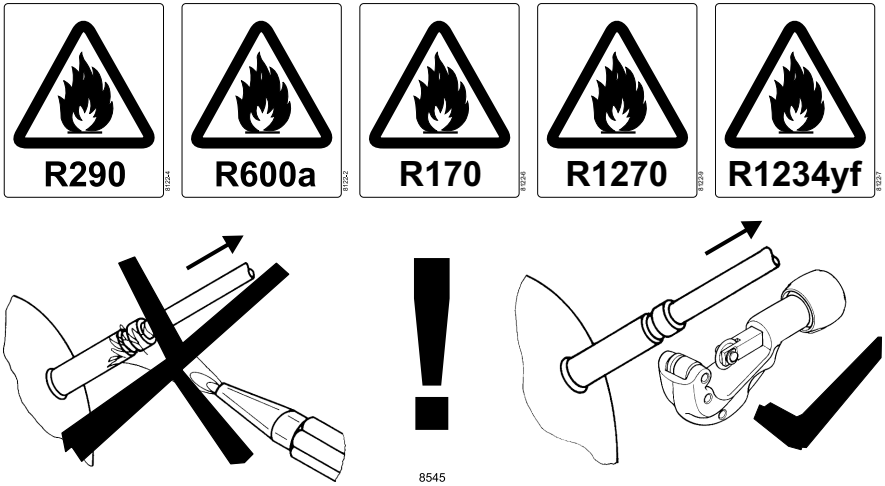
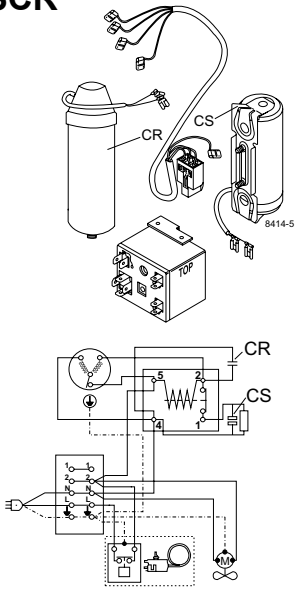
Service/Repair – R290, R600a, R170, R1270, R1234yf

(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**