Single
Packs

Single Pack SC12CNX.2 220-240V 50Hz CSIR

Single pack code number: **195B4168**

Position	Title	Code	Amount
1	Compressor SC12CNX.2	104H8266	1
2	Starting relay	117U7003	1
3	Starting capacitor (80µF 220V, 6.3mm)	117U5017	1
4	Cord relief	103N1004	1
5	Cover	103N2009	1
6	Bolt joint for one compressor | M6 | ø16mm	118-1917	1

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Model
SC12CNX.2

Sales code:
104H8266

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.2

–	**Conf. 1**
Motor configuration	CSIR
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
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.2

Sales code:

104H8266

Compressor Design

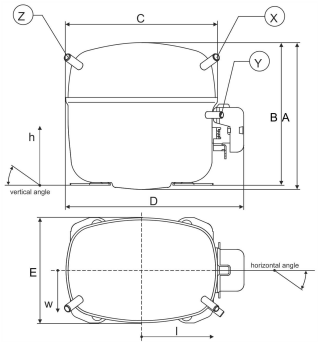
Oil type	**POE**	Winding resistance main	**6.9 Ohm**
Oil viscosity	**22cSt**	Winding resistance aux	**11 Ohm**
Oil quantity	**500 / 16.91fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**1,410 cm3 / 47.68fl.oz**	Max. discharge temp.	**135°C / 275°F**
Motor protection	**internal**		

Compressor Dimensions

Housing

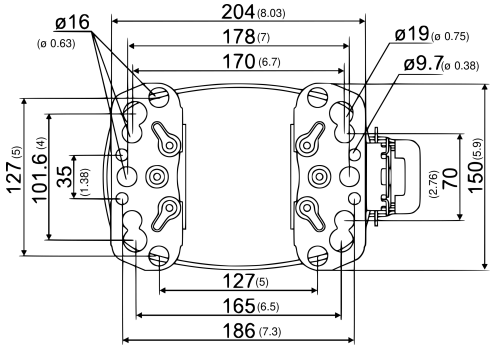
A Height	**209mm / 8.23in**
B Height	**203mm / 7.99in**
C Length shell	**218mm / 8.58in**
D Length w. cover	**255mm / 10.04in**
E Width	**151mm / 5.94in**

Find 3D Model here



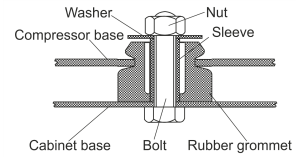
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.11–6.29 / 0.24–0.25in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	143°
Vertical angle ±2°	30°	0°	150°
Position l/h/w [mm]	107/183/55 / 4.21/7.20/2.17in	115/100/63 / 4.53/3.94/2.48in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

Mounting Accessories

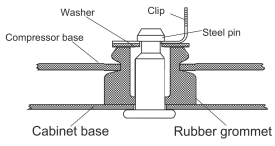


Dimensions in mm [in]

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.2 Configuration 1

Sales code:
104H8266

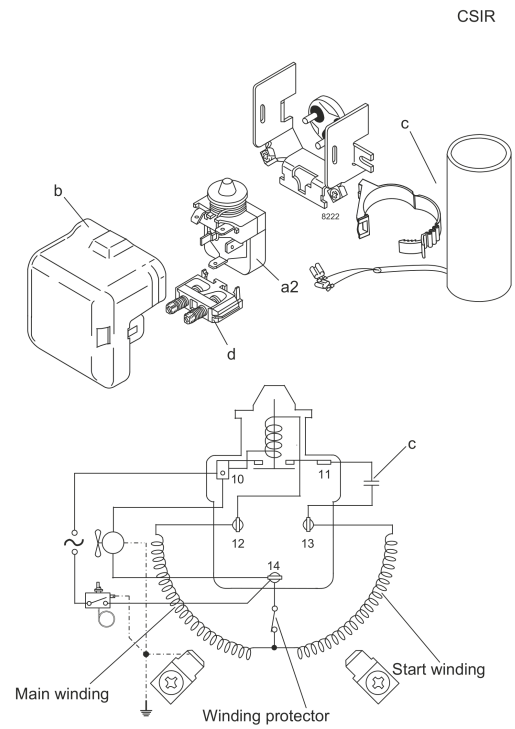
Configuration

Motor configuration	**CSIR**
Power supply (nominal)	**220-240 V/50 Hz 1~**
Refrigerant	**R290**
Application	**LBP**
Voltage range	**198-254 V**
Starting torque	**HST**
Approvals	**CCC, VDE**
Starting device type	**relay**
Run capacitor	**-/-**
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 - 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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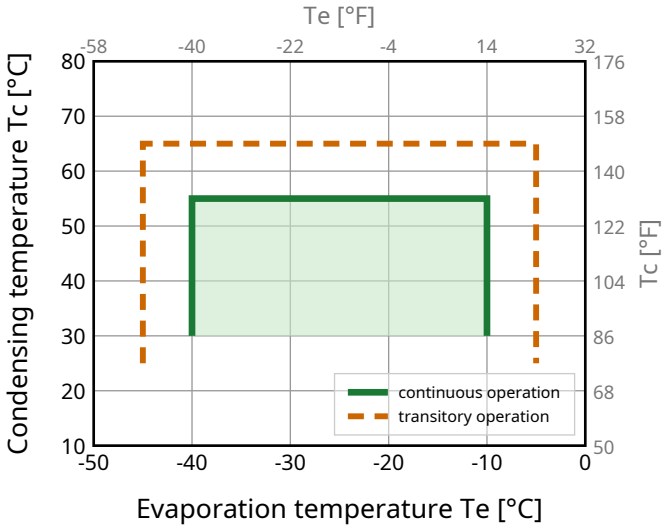
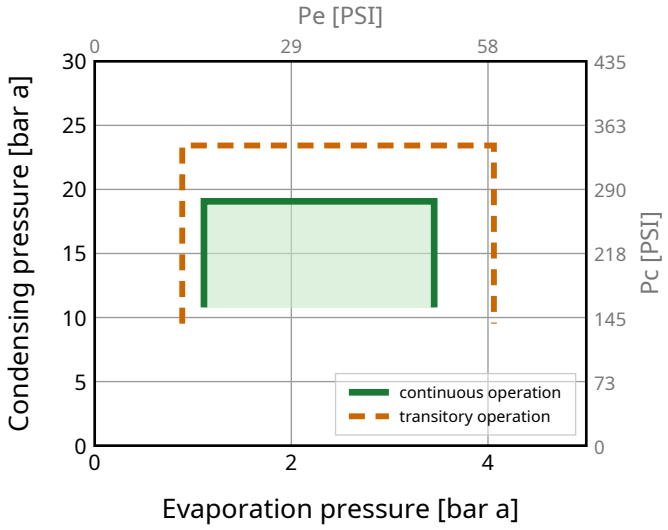
Components
a2 relay 117U7003
c start capacitor (80µF) 117U5017
d cord relief 103N1004
b plastic cover 103N2009

Operation Pressure Range





Model

SC12CNX.2 Configuration 1

Sales code:

104H8266

Standard Conditions

R290, 220 V/50 Hz, CSIR, 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	**493**	1681	424	**1.20**	4.10	410	2.43	5.00	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**359**	1226	309	**0.91**	3.12	394	2.37	4.50	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**280**	954	240	**0.96**	3.26	292	2.06	3.21	**EN12900 LBP**
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	**417**	1421	358	**1.04**	3.54	402	2.42	5.78	**ARI540 LBP**
-23.3 -10	40.6 105.1	32.2 90	32.2 90	**571**	1949	491	**1.50**	5.14	380	2.35	5.80	**AHAM LBP**
-35 -31	45 113	32 89.6	45 113	**258**	881	222	**0.86**	2.95	298	2.09	2.91	**opt LBP**

Performance Tables

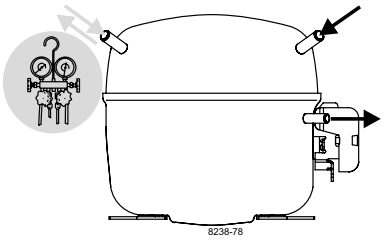
R290, 220 V/50 Hz, CSIR, fan 3m/s

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	**186**	636	160	**0.72**	2.47	257	1.99	2.10
-35	-31	**258**	881	222	**0.86**	2.95	298	2.09	2.91
-30	-22	**346**	1182	298	**1.02**	3.49	339	2.21	3.91
-25	-13	**452**	1544	389	**1.20**	4.08	379	2.35	5.13
-20	-4	**578**	1973	497	**1.38**	4.71	419	2.50	6.58
-15	5	**725**	2474	624	**1.57**	5.37	460	2.67	8.29
-10	14	**895**	3052	769	**1.78**	6.08	502	2.86	10.27

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

-40	-40	**115**	393	99	**0.49**	1.66	236	1.94	1.43
-35	-31	**184**	626	158	**0.63**	2.15	291	2.07	2.29
-30	-22	**264**	902	227	**0.77**	2.63	343	2.21	3.30
-25	-13	**359**	1226	309	**0.91**	3.12	394	2.37	4.50
-20	-4	**470**	1603	404	**1.06**	3.62	443	2.55	5.91
-15	5	**598**	2039	514	**1.22**	4.16	490	2.75	7.56
-10	14	**744**	2538	640	**1.38**	4.72	538	2.96	9.46



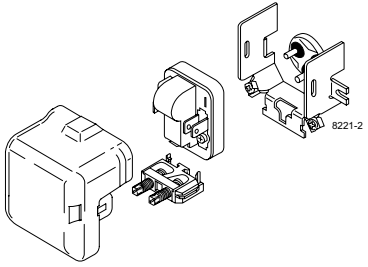
SC Compressors

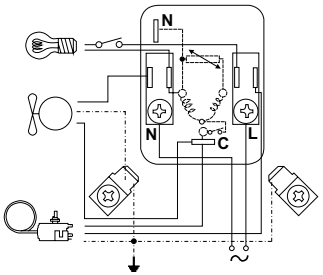
SECOP

Keep electrical equipment clear from oil, chemicals, and water

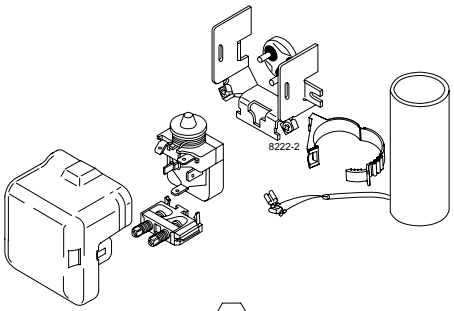
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

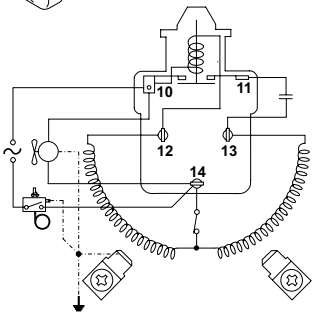
RSIR



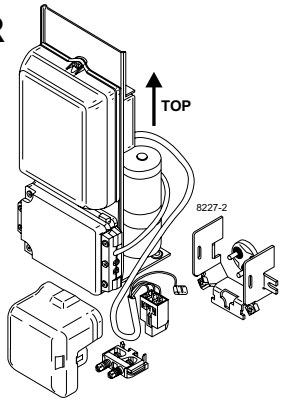


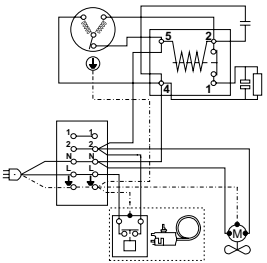
CSIR

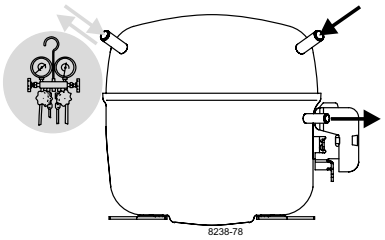




CSCR







SC Compressors

SECOP

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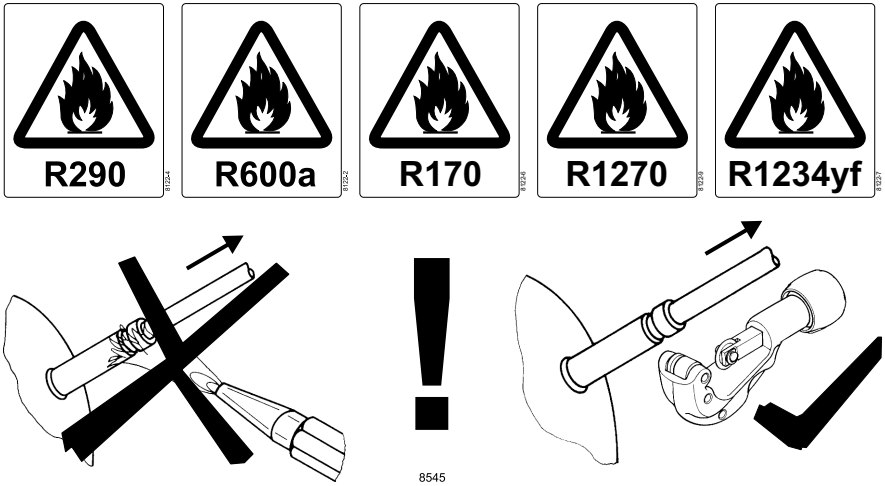
Service/Repair – R290, R600a, R170, R1270, R1234yf

(applies to all flammable refrigerants)



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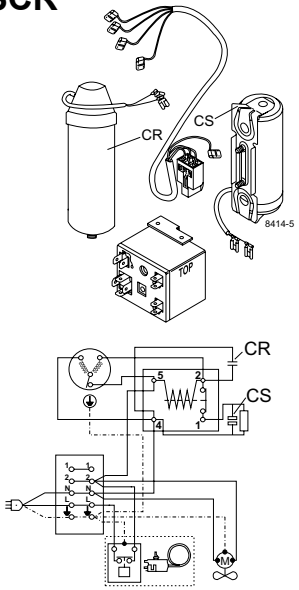

Dismantling, recycling, disposal: At the end of a compressor's lifecycle, proceed by separating and storing components according to their environmental impact. Parts that may cause pollution must be clearly identified and handled separately, ensuring appropriate disposal. Refrigerant gas must not be 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**