Single
Packs

Single Pack SC15CNX.2 220-240V 50Hz CSIR

Single pack code number: **195B4194**

Position	Title	Code	Amount
1	Compressor SC15CNX.2	104H8566	1
2	Starting relay	117U7005	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
SC15CNX.2

Sales code:
104H8566

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.2

–	**Conf. 1**
Motor configuration	CSIR
Power supply (nominal)	220-240 V/50 Hz
Number of phases	1
Voltage range	198-254 V
Approvals	VDE, CCC
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
SC15CNX.2

Sales code:
104H8566

Compressor Design

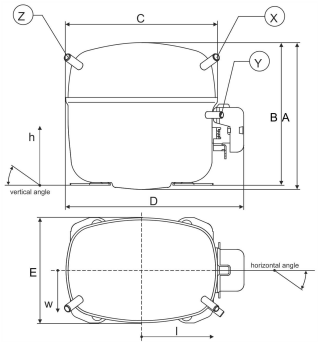
Oil type	**POE**	Winding resistance main	**5.13 Ohm**
Oil viscosity	**22cSt**	Winding resistance aux	**13.51 Ohm**
Oil quantity	**500 / 16.91fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**1,410 cm3 / 47.68fl.oz**	Max. discharge temp.	**130°C / 266°F**
Motor protection	**internal**		

Compressor Dimensions

Housing

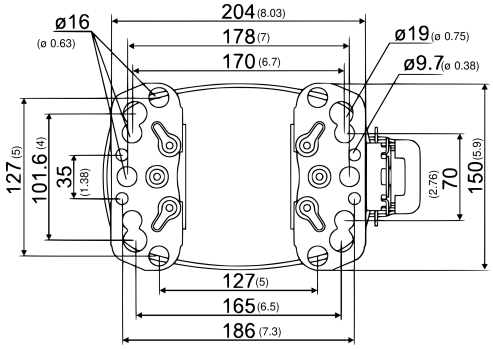
A Height	**209mm / 8.23in**
B Height	**203mm / 7.99in**
C Length shell	**218mm / 8.58in**
D Length w. cover	**255mm / 10.04in**
E Width	**151mm / 5.94in**

Find 3D Model here



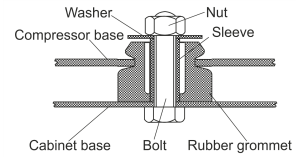
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.11–6.29 / 0.24–0.25in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	143°
Vertical angle ±2°	30°	0°	150°
Position l/h/w [mm]	107/183/55 / 4.21/7.20/2.17in	115/100/63 / 4.53/3.94/2.48in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

Mounting Accessories

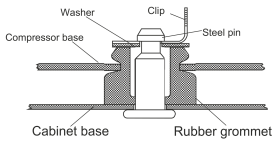


Dimensions in mm [in]

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
SC15CNX.2 Configuration 1

Sales code:
104H8566

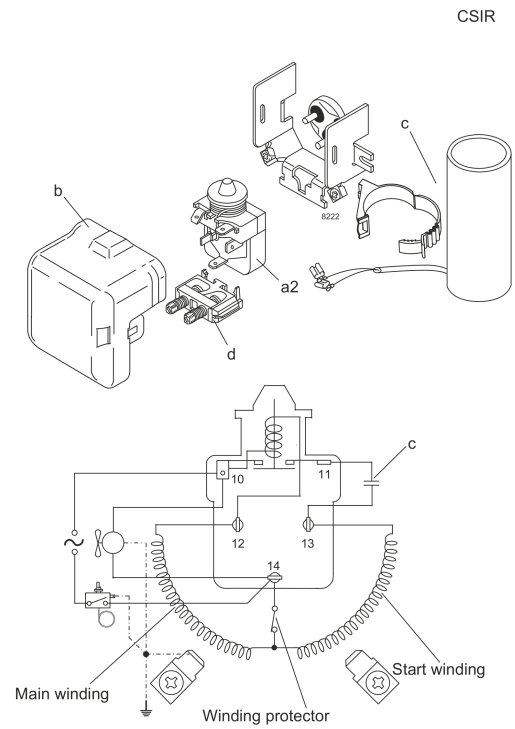
Configuration

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	**VDE, CCC**
Starting device type	**relay**
Run capacitor	**-/-**
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

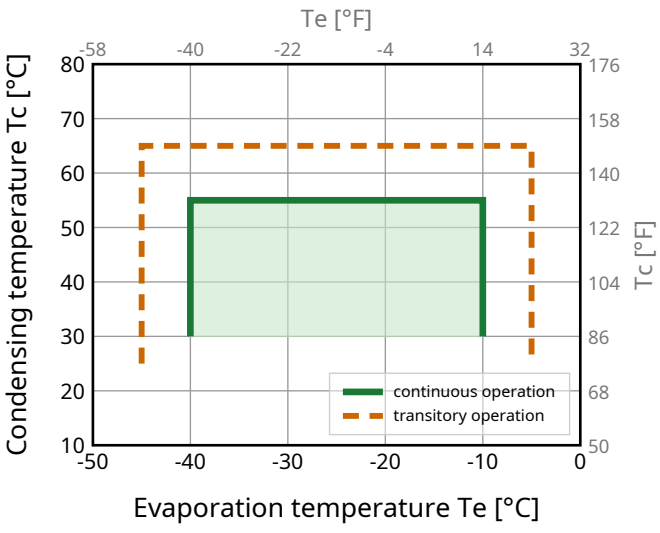


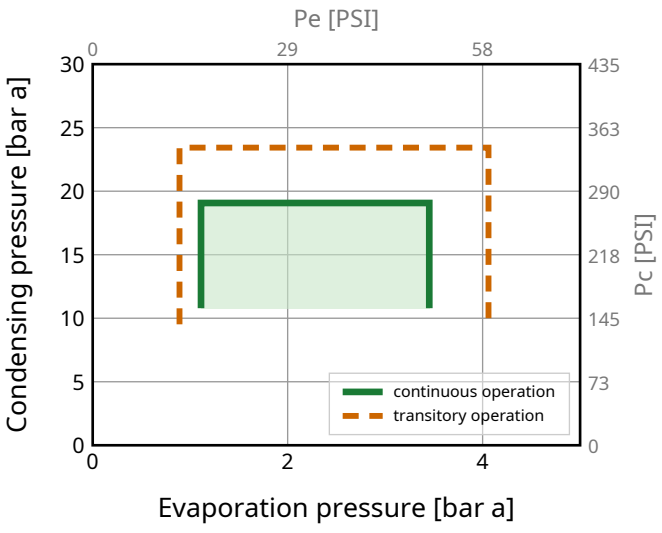
View full size

Components
a2 relay 117U7005
c start capacitor (80µF) 117U5017
d cord relief 103N1004
b plastic cover 103N2009

Alternative components
a2 relay 117U7005
c start capacitor (80µF) 117U5017
d cord relief 103N1004
b plastic cover 103N2008

Operation Pressure Range





Model

SC15CNX.2 Configuration 1

Sales code:

104H8566

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	**626**	2136	538	**1.32**	4.52	473	2.95	6.36	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**464**	1584	399	**1.02**	3.47	457	2.89	5.82	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**352**	1202	303	**1.00**	3.40	354	2.53	4.04	**EN12900 LBP**
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	**517**	1764	445	**1.11**	3.80	464	2.89	7.18	**ARI540 LBP**
-23.3 -10	40.6 105.1	32.2 90	32.2 90	**701**	2393	603	**1.53**	5.21	460	2.83	7.12	**AHAM LBP**
-35 -31	45 113	32 89.6	45 113	**332**	1133	286	**0.95**	3.23	351	2.52	3.74	**opt LBP**

Performance Tables

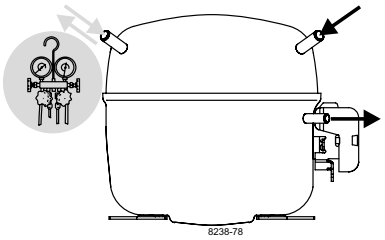
R290, 220 V/50 Hz, CSIR, fan 3m/s

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	**252**	859	217	**0.82**	2.79	308	2.41	2.83
-35	-31	**332**	1133	286	**0.95**	3.23	351	2.52	3.74
-30	-22	**434**	1479	373	**1.09**	3.73	396	2.65	4.90
-25	-13	**560**	1910	481	**1.26**	4.29	445	2.80	6.34
-20	-4	**714**	2436	614	**1.44**	4.91	497	2.98	8.12
-15	5	**900**	3069	774	**1.63**	5.56	552	3.18	10.28
-10	14	**1120**	3821	963	**1.83**	6.26	610	3.41	12.86

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

-40	-40	**220**	749	189	**0.67**	2.27	330	2.38	2.73
-35	-31	**281**	959	242	**0.77**	2.62	366	2.53	3.50
-30	-22	**362**	1234	311	**0.89**	3.02	408	2.70	4.52
-25	-13	**464**	1584	399	**1.02**	3.47	457	2.89	5.82
-20	-4	**592**	2021	509	**1.16**	3.95	512	3.11	7.46
-15	5	**749**	2556	644	**1.30**	4.45	574	3.35	9.48
-10	14	**938**	3202	807	**1.46**	4.98	643	3.61	11.93



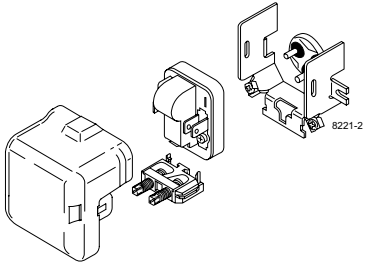
SC Compressors

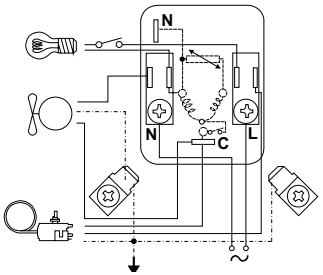
SECOP

Keep electrical equipment clear from oil, chemicals, and water

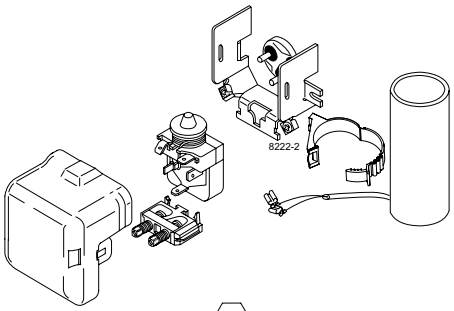
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

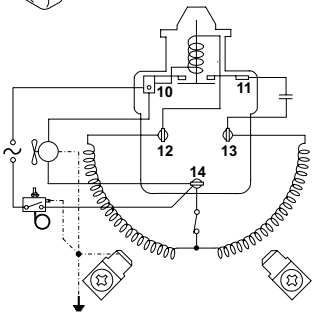
RSIR



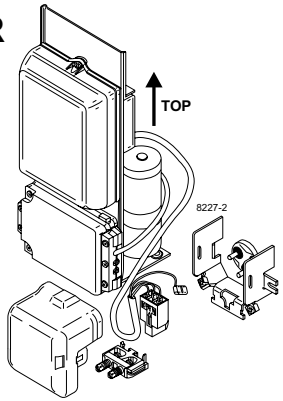


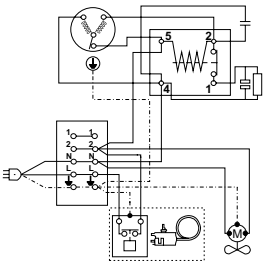
CSIR

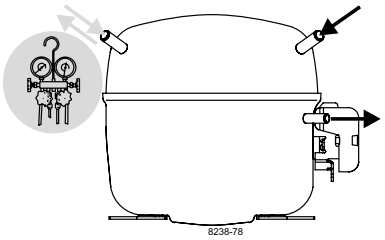




CSCR







SC Compressors

SECOP

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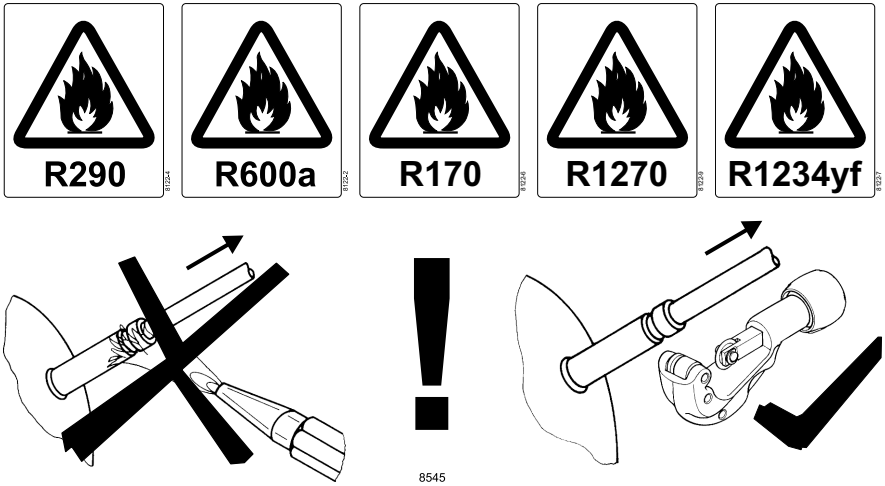
Service/Repair – R290, R600a, R170, R1270, R1234yf

(applies to all flammable refrigerants)



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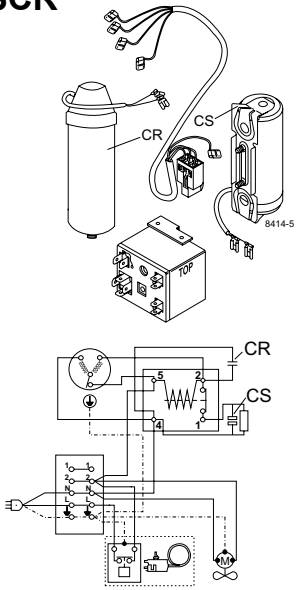

Dismantling, recycling, disposal: At the end of a compressor's lifecycle, proceed by separating and storing components according to their environmental impact. Parts that may cause pollution must be clearly identified and handled separately, ensuring appropriate disposal. Refrigerant gas must not be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