Single
Packs

Single Pack SC12DL 220-240V 50Hz CSIR

Single pack code number: **195B4042**

Position	Title	Code	Amount
1	Compressor SC12DL	104L2625	1
2	Starting relay	117U6019	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

Secop GmbH • Lise-Meitner-Straße 29 • 24941 Flensburg, Germany • Tel: +49 461 4941 0 • **www.secop.com**

Secop accepts no responsibility for possible errors in catalogs, brochures, and other printed material. Secop reserves the right to alter its products without notice. This also applies to products already on order provided that such alterations can be made without subsequential changes being necessary to specifications already agreed. All trademarks in this material are the property of the respective companies. Secop and the Secop logotype are trademarks of Secop GmbH. All rights reserved.

Model
SC12DL

Sales code:
104L2625

Compressor Data

Refrigerant(s)	**R404A / R507 / R407C**
Refr. charge - tech. limit	**1300g / 45.86oz**
Weight	**13.60 kg / 29.98lbs**
Displacement	**12.87 cm3 / 0.79cu.in**
Compressors on pallet	**80**

General – Configurations With SC12DL

–	**Conf. 1**
Motor configuration	CSIR
Power supply (nominal)	220-240 V/50 Hz
Number of phases	1
Voltage range	198-254 V
Approvals	CCC, EAC, VDE
Starting torque	HST
Refrigerant	R404A
Application	HBP
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
SC12DL

Sales code:
104L2625

Compressor Design

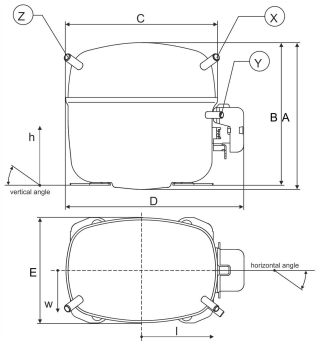
Oil type	**POE**	Winding resistance main	**3.7 Ohm**
Oil viscosity	**32cSt**	Winding resistance aux	**14 Ohm**
Oil quantity	**550 / 18.60fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**1,460 cm3 / 49.37fl.oz**	Max. discharge temp.	**130°C / 266°F**
Motor protection	**internal**		

Compressor Dimensions

Housing

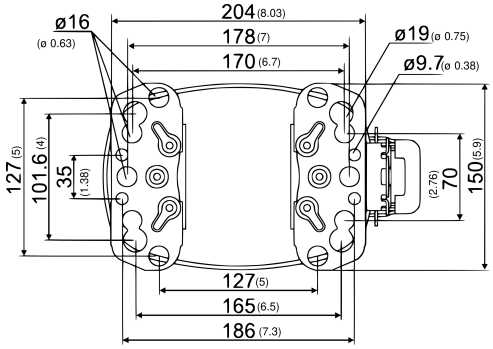
A Height	**219mm / 8.62in**
B Height	**213mm / 8.39in**
C Length shell	**218mm / 8.58in**
D Length w. cover	**255mm / 10.04in**
E Width	**151mm / 5.94in**

Find 3D Model here



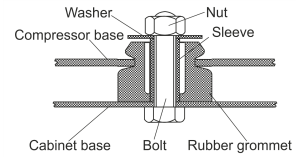
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 10.11–10.29 / 0.40–0.41in	øi 6.11–6.29 / 0.24–0.25in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	143°
Vertical angle ±2°	30°	0°	150°
Position l/h/w [mm]	107/193/55 / 4.21/7.60/2.17in	115/110/63 / 4.53/4.33/2.48in	-107/193/55 / -4.21/7.60/2.17in
Straight tube l. [mm]	12 / 0.47in	12 / 0.47in	12 / 0.47in

Mounting Accessories

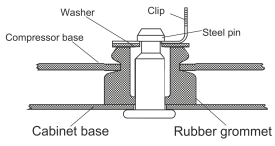


Dimensions in mm [in]

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
SC12DL Configuration 1

Sales code:
104L2625

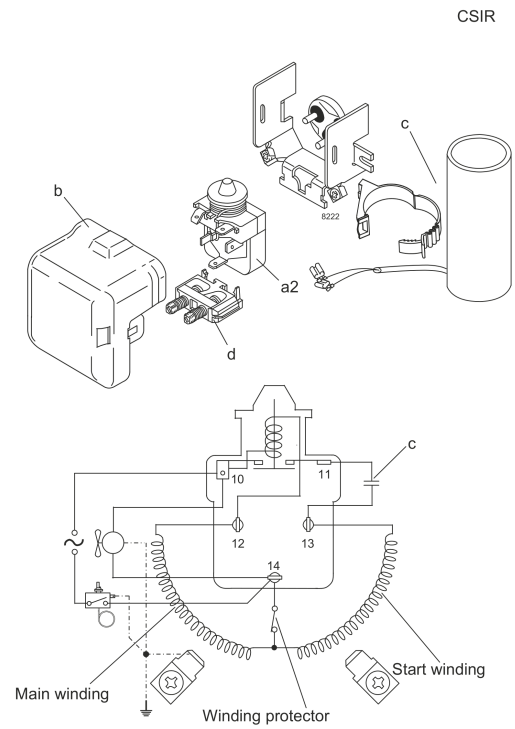
Configuration

Motor configuration	**CSIR**
Power supply (nominal)	**220-240 V/50 Hz 1~**
Refrigerant	**R404A**
Application	**HBP**
Voltage range	**198-254 V**
Starting torque	**HST**
Approvals	**CCC, EAC, VDE**
Starting device type	**relay**
Run capacitor	**-/-**
Start capacitor	**80 µF**
LRA (locked rotor amps / 4s/ U(N))	**20.43 A**
RLA (rated load amps / 1s/ U(N))	**3.9 A**
Cut in current (U(N))	**20.43 A**

Ambient/ machine room temperatures minimum /maximum
Ambient temperature range: 10 - 38°C / 50 - 100°F
Machine room temp. compressor: 10 - 43°C / 50 - 109°F

System Cooling
fan 3m/s

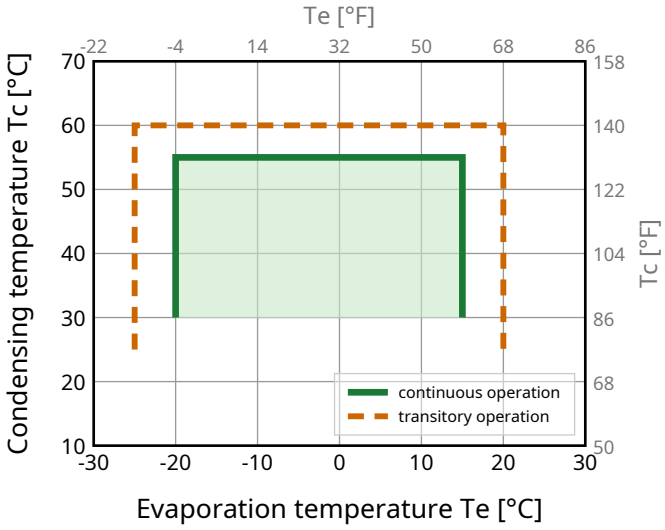
Electrical Accessories / Wiring Diagram

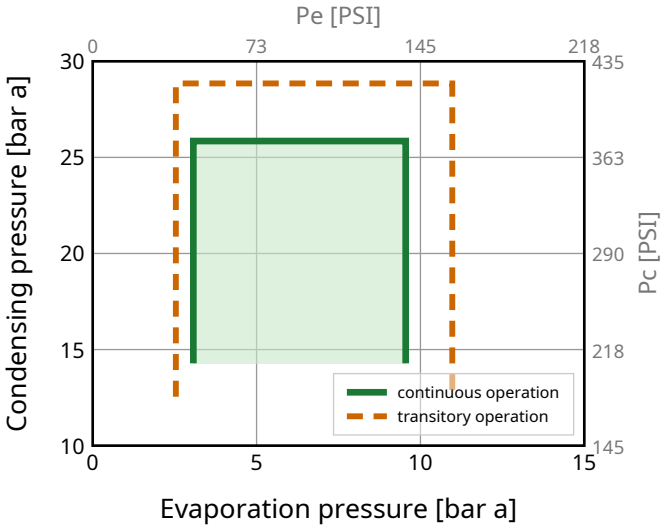


View full size

Components
a2 relay 117U6019
c start capacitor (80µF) 117U5017
d cord relief 103N1004
b plastic cover 103N2009

Operation Pressure Range





Model
SC12DL Configuration 1

Sales code:
104L2625

Standard Conditions

R404A, 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]	
7.2 45	54.4 129.9	35 95	46.1 115	**1942**	6626	1670	**2.26**	7.71	860	4.92	55.17	**ASHRAE HBP**
5 41	55 131	32 89.6	55 131	**1526**	5206	1312	**1.80**	6.14	848	4.85	50.78	**CECOMAF HBP**
5 41	50 122	20 68	50 122	**1584**	5406	1363	**1.99**	6.78	798	4.64	53.99	**EN12900 HBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**1122**	3828	965	**1.57**	5.36	714	4.26	30.82	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**827**	2820	711	**1.23**	4.21	670	4.08	26.42	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**969**	3306	833	**1.55**	5.30	624	3.89	29.13	**EN12900 MBP**

Performance Tables

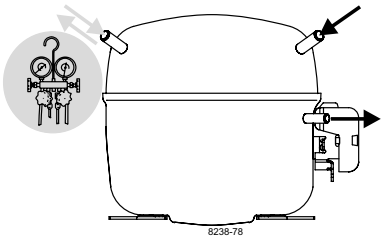
R404A, 220 V/50 Hz, CSIR, fan 3m/s

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]
-20	-4	**609**	2077	523	**1.24**	4.24	489	3.37	16.48
-15	5	**806**	2749	693	**1.43**	4.89	562	3.65	21.97
-10	14	**1028**	3507	884	**1.65**	5.62	624	3.89	28.25
-5	23	**1279**	4365	1100	**1.90**	6.47	675	4.11	35.52
0	32	**1565**	5340	1346	**2.18**	7.45	716	4.29	43.95
5	41	**1890**	6448	1625	**2.52**	8.59	750	4.44	53.79
10	50	**2258**	7704	1942	**2.90**	9.91	778	4.57	65.31
15	59	**2674**	9124	2300	**3.34**	11.40	800	4.66	78.84

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

-20	-4	**466**	1589	401	**0.95**	3.23	493	3.41	14.63
-15	5	**639**	2179	549	**1.08**	3.70	588	3.76	20.22
-10	14	**827**	2820	711	**1.23**	4.21	670	4.08	26.42
-5	23	**1034**	3528	889	**1.40**	4.77	740	4.37	33.42
0	32	**1266**	4318	1088	**1.58**	5.40	799	4.62	41.46
5	41	**1526**	5206	1312	**1.80**	6.14	848	4.85	50.78
10	50	**1820**	6208	1565	**2.05**	6.99	888	5.05	61.71
15	59	**2151**	7340	1850	**2.33**	7.96	922	5.22	74.62



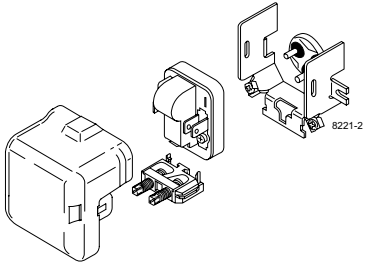
SC Compressors

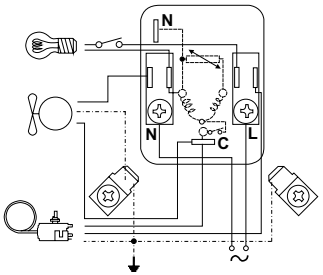
SECOP

Keep electrical equipment clear from oil, chemicals, and water

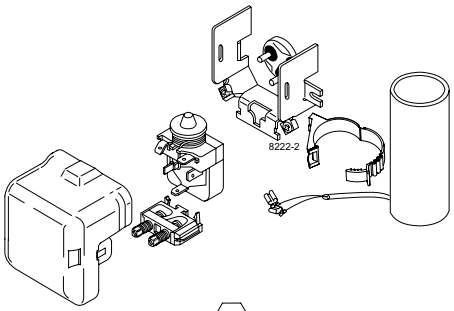
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

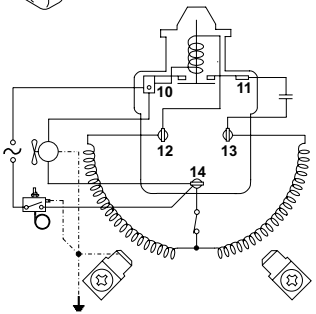
RSIR



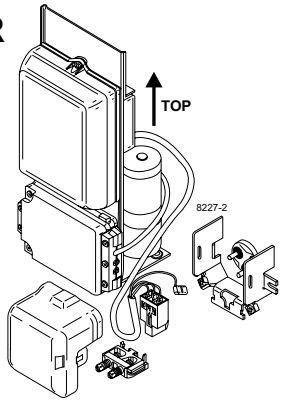


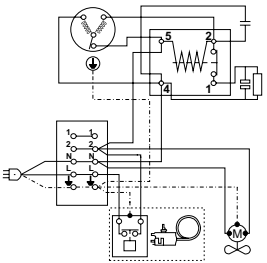
CSIR

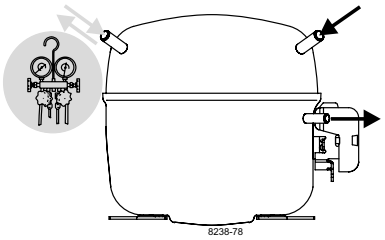




CSCR







SC Compressors

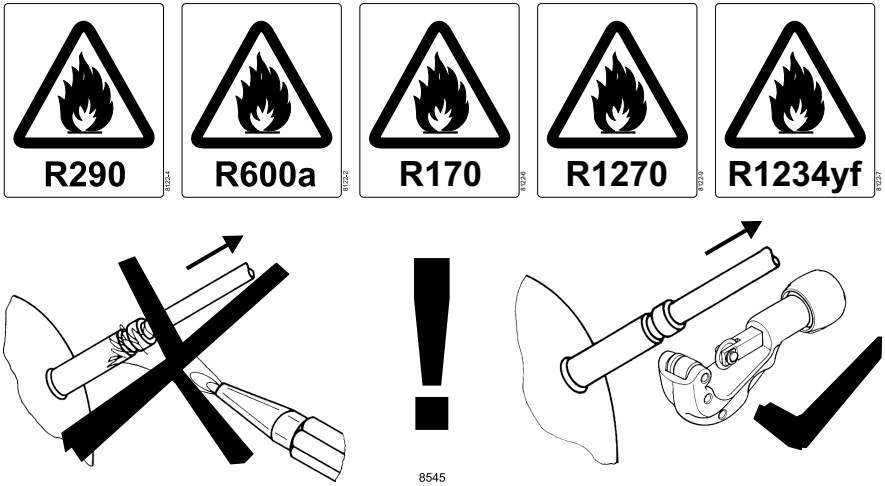
SECOP

Keep electrical equipment clear from oil, chemicals, and water

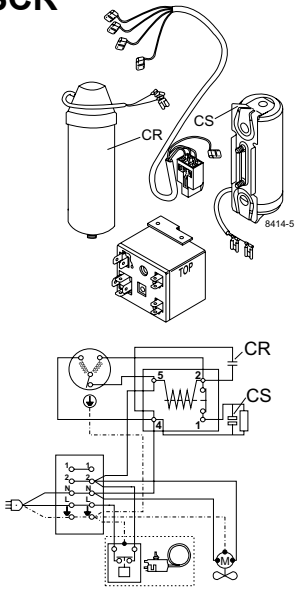
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

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**