Single
Packs

Single Pack SC10DL 220-240V 50Hz CSIR

Single pack code number: **195B4041**

Position	Title	Code	Amount
1	Compressor SC10DL	104L2525	1
2	Starting relay	117U6005	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
SC10DL

Sales code:
104L2525

Compressor Data

Refrigerant(s)	**R404A / R507 / R407C**
Refr. charge - tech. limit	**1300g / 45.86oz**
Weight	**13.20 kg / 29.10lbs**
Displacement	**10.29 cm3 / 0.63cu.in**
Compressors on pallet	**80**

General – Configurations With SC10DL

–	**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
SC10DL

Sales code:
104L2525

Compressor Design

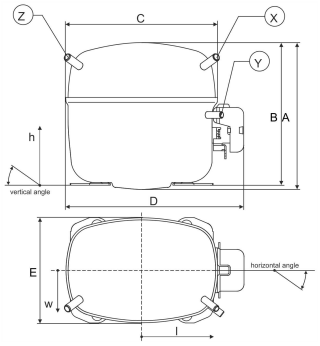
Oil type	**POE**	Winding resistance main	**5.13 Ohm**
Oil viscosity	**32cSt**	Winding resistance aux	**13.51 Ohm**
Oil quantity	**550 / 18.60fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**1,410 cm3 / 47.68fl.oz**	Max. discharge temp.	**130°C / 266°F**
Motor protection	**internal**		

Compressor Dimensions

Housing

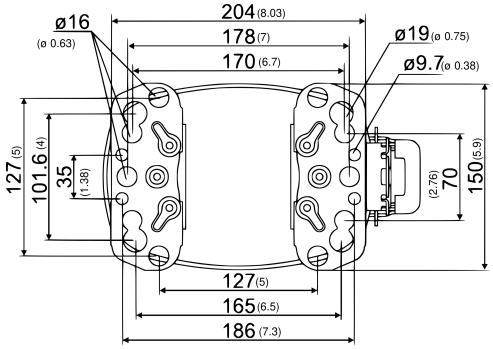
A Height	**219mm / 8.62in**
B Height	**213mm / 8.39in**
C Length shell	**218mm / 8.58in**
D Length w. cover	**255mm / 10.04in**
E Width	**151mm / 5.94in**

Find 3D Model here



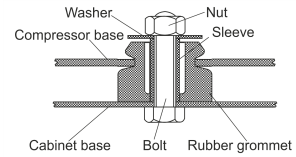
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.11–6.29 / 0.24–0.25in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	143°
Vertical angle ±2°	30°	0°	150°
Position l/h/w [mm]	107/193/55 / 4.21/7.60/2.17in	115/110/63 / 4.53/4.33/2.48in	-107/193/55 / -4.21/7.60/2.17in
Straight tube l. [mm]	12 / 0.47in	12 / 0.47in	12 / 0.47in

Mounting Accessories

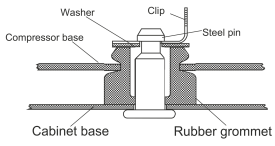


Dimensions in mm [in]

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
SC10DL Configuration 1

Sales code:
104L2525

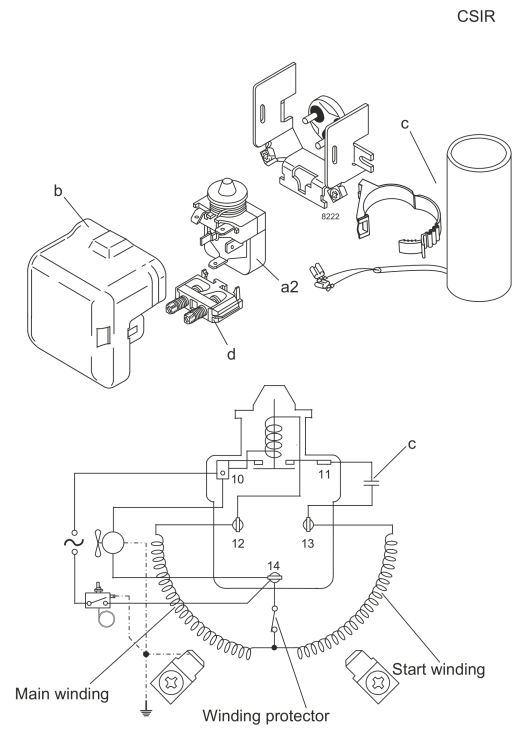
Configuration

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))	**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 - 38°C / 50 - 100°F
Machine room temp. compressor: 10 - 43°C / 50 - 109°F

System Cooling
fan 3m/s

Electrical Accessories / Wiring Diagram



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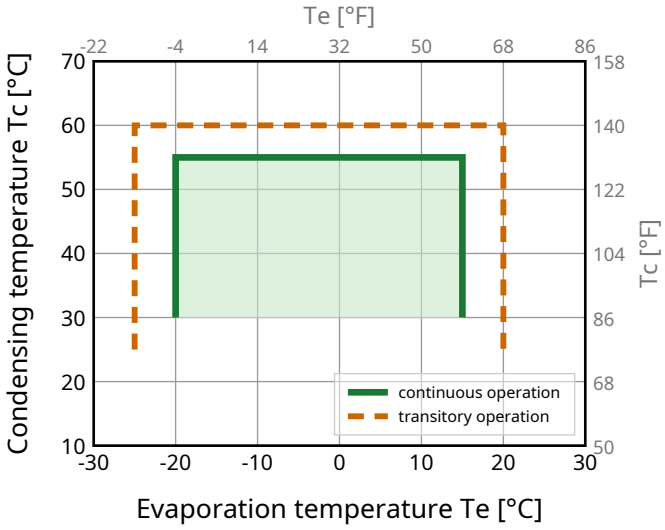
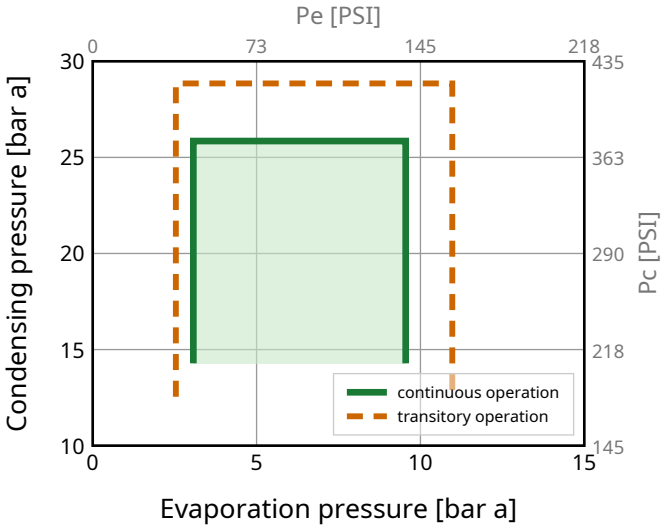
Components
a2 relay 117U6005
c start capacitor (80µF) 117U5017
d cord relief 103N1004
b plastic cover 103N2009

Operation Pressure Range





Model
SC10DL Configuration 1

Sales code:
104L2525

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	**1478**	5042	1271	**2.15**	7.35	686	3.79	41.98	**ASHRAE HBP**
5 41	55 131	32 89.6	55 131	**1156**	3944	994	**1.71**	5.84	675	3.74	38.47	**CECOMAF HBP**
5 41	50 122	20 68	50 122	**1209**	4124	1040	**1.92**	6.56	629	3.57	41.19	**EN12900 HBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**837**	2856	720	**1.51**	5.15	554	3.27	22.99	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**614**	2094	528	**1.19**	4.04	518	3.12	19.61	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**731**	2493	628	**1.53**	5.21	478	2.97	21.97	**EN12900 MBP**

Performance Tables

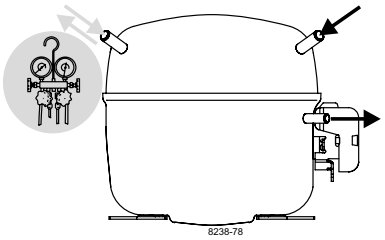
R404A, 220 V/50 Hz, CSIR, fan 3m/s

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	**471**	1608	405	**1.26**	4.31	373	2.55	12.76
-15	5	**611**	2084	525	**1.42**	4.86	429	2.78	16.66
-10	14	**775**	2645	667	**1.62**	5.53	478	2.97	21.31
-5	23	**968**	3302	832	**1.85**	6.33	522	3.15	26.87
0	32	**1192**	4066	1025	**2.13**	7.27	559	3.30	33.47
5	41	**1450**	4949	1247	**2.46**	8.39	590	3.42	41.28
10	50	**1747**	5961	1502	**2.85**	9.71	614	3.53	50.53
15	59	**2085**	7114	1793	**3.30**	11.27	631	3.61	61.47

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

-20	-4	**350**	1194	301	**0.92**	3.15	379	2.59	10.98
-15	5	**474**	1618	408	**1.05**	3.58	452	2.87	15.01
-10	14	**614**	2094	528	**1.19**	4.04	518	3.12	19.61
-5	23	**772**	2633	664	**1.34**	4.56	577	3.35	24.94
0	32	**951**	3245	818	**1.51**	5.16	630	3.56	31.16
5	41	**1156**	3944	994	**1.71**	5.84	675	3.74	38.47
10	50	**1389**	4739	1194	**1.95**	6.65	713	3.90	47.10
15	59	**1654**	5642	1422	**2.22**	7.59	743	4.04	57.35



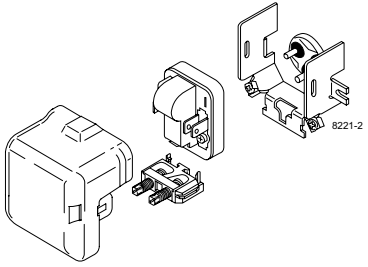
SC Compressors

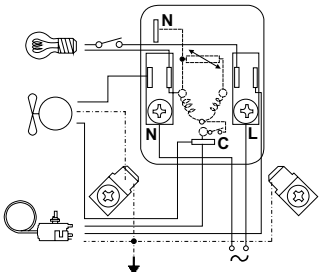
SECOP

Keep electrical equipment clear from oil, chemicals, and water

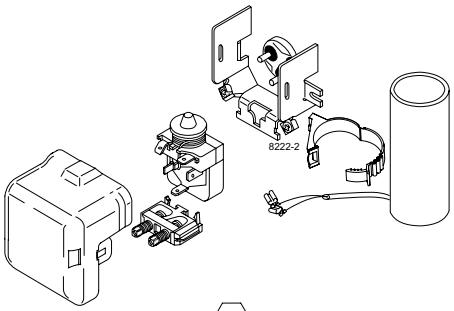
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

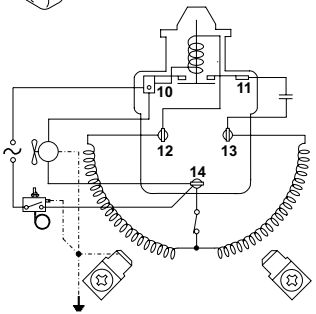
RSIR



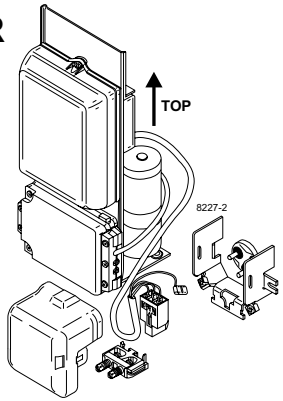


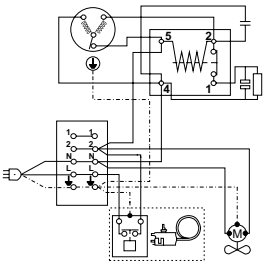
CSIR

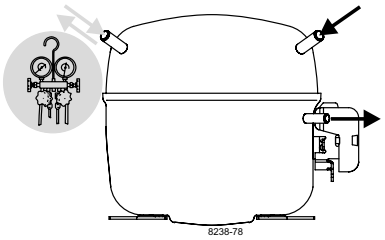




CSCR







SC Compressors

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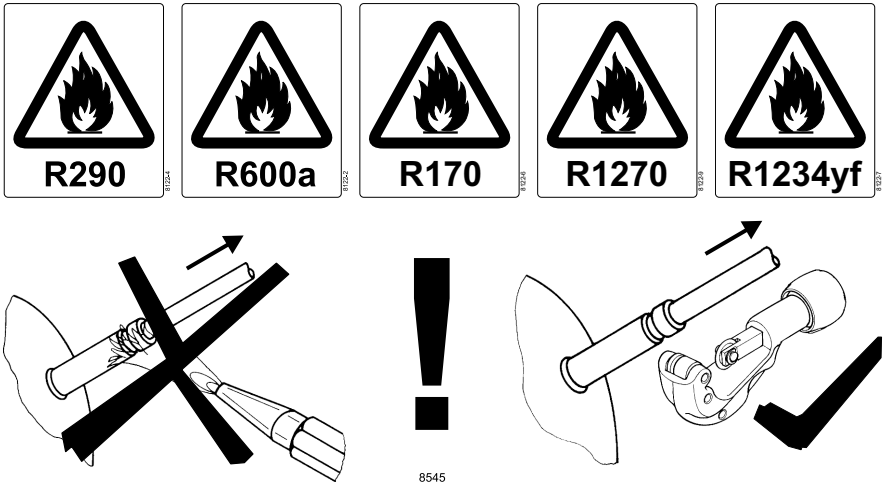
Service/Repair – R290, R600a, R170, R1270, R1234yf

(applies to all flammable refrigerants)



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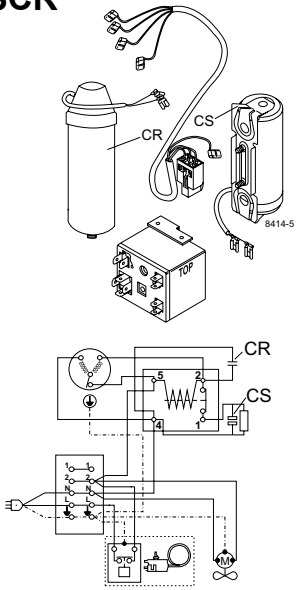

Dismantling, recycling, disposal: At the end of a compressor's lifecycle, proceed by separating and storing components according to their environmental impact. Parts that may cause pollution must be clearly identified and handled separately, ensuring appropriate disposal. Refrigerant gas must not be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