

Model

SC10DL

Sales code:

104L2535

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	VDE, CCC
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

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Compressor Design

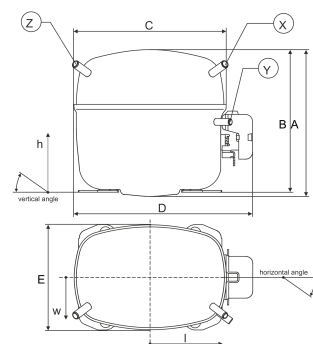
Oil type	POE	Winding resistance main	5.13 Ohm
Oil viscosity	32cSt	Winding resistance aux	13.51 Ohm
Oil quantity	550 / 18.60fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	1,410 cm3 / 47.68fl.oz	Max. discharge temp.	130°C / 266°F
Motor protection	internal		

Compressor Dimensions

Housing

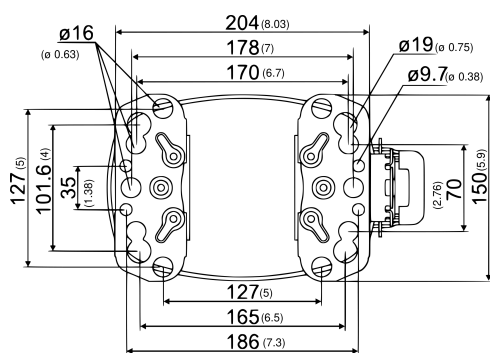
A Height	209mm / 8.23in
B Height	203mm / 7.99in
C Length shell	218mm / 8.58in
D Length w. cover	255mm / 10.04in
E Width	151mm / 5.94in

[Find 3D Model here](#)



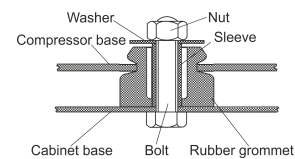
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.11–6.29 / 0.24–0.25in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	143°
Vertical angle ±2°	30°	0°	150°
Position l/h/w [mm]	107/183/55 / 4.21/7.20/2.17in	115/100/63 / 4.53/3.94/2.48in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

Mounting Accessories

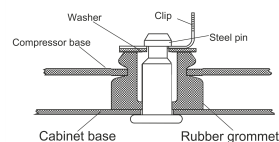


Dimensions in mm [in]

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

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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	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

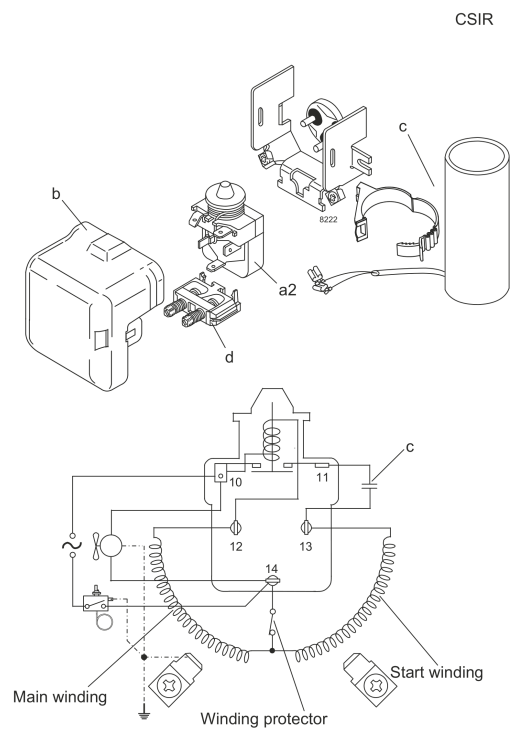
Ambient temperature range: 10 - 38°C / 50 - 100°F

Machine room temp. compressor: 10 - 43°C / 50 - 109°F

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



[View full size](#)

Components

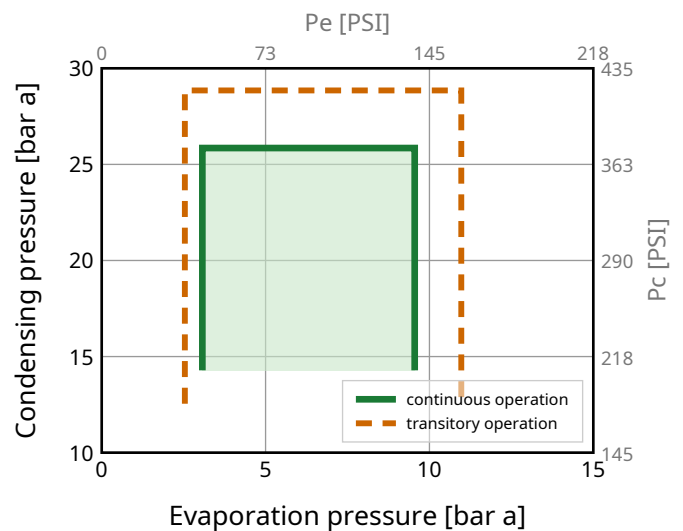
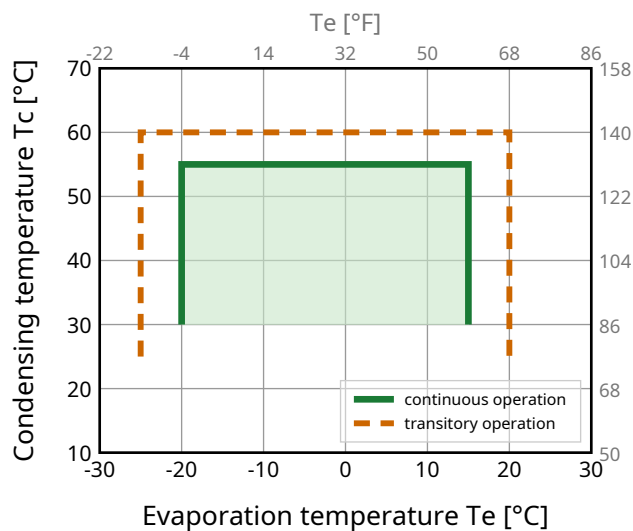
a2 relay 117U6005

c start capacitor (80µF) 117U5017

d cord relief 103N1004

b plastic cover 103N2009

Operation Pressure Range



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Standard Conditions

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

pe	pc	RGT	Tliq	Cooling capacity			COP	EER	P	I	m	
[°C] [°F]	[°C] [°F]	[°C] [°F]	[°C] [°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]	
-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
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

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	m
[°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