

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

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Compressor Design

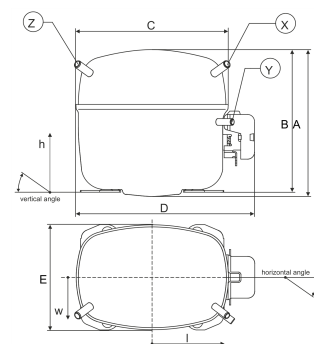
Oil type	POE	Winding resistance main	5.100 Ohm
Oil viscosity	32cSt	Winding resistance aux	13.50 Ohm
Oil quantity	550 / 18.60fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	1,410 cm3 / 47.68fl.oz	Max. discharge temp.	130°C / 266°F
Motor protection	internal		

Compressor Dimensions

Housing

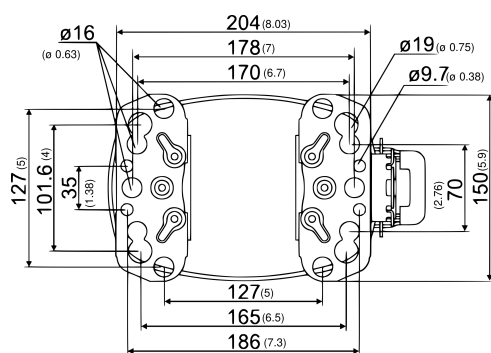
A Height	219mm / 8.62in
B Height	213mm / 8.39in
C Length shell	218mm / 8.58in
D Length w. cover	255mm / 10.04in
E Width	151mm / 5.94in

[Find 3D Model here](#)



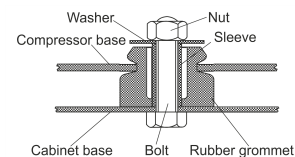
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.11–6.29 / 0.24–0.25in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	143°
Vertical angle ±2°	30°	0°	150°
Position l/h/w [mm]	107/193/55 / 4.21/7.60/2.17in	115/110/63 / 4.53/4.33/2.48in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

Mounting Accessories

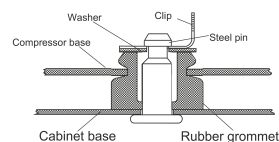


Dimensions in mm [in]

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

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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	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

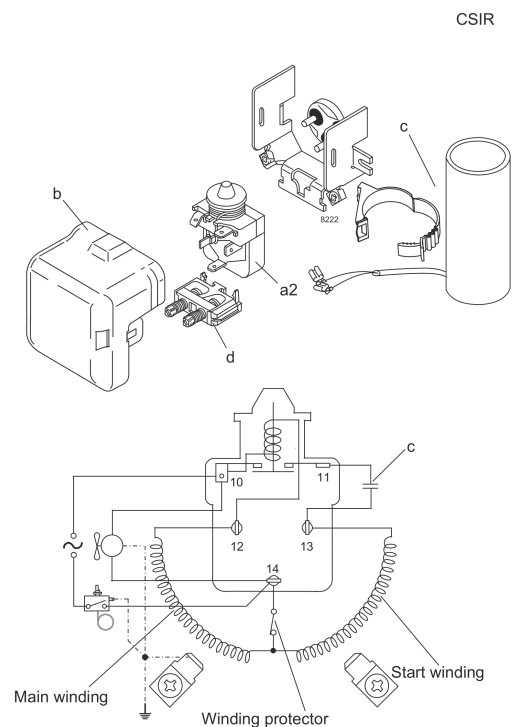
Ambient temperature range: 10 - 38°C / 50 - 100°F

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

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



[View full size](#)

Components

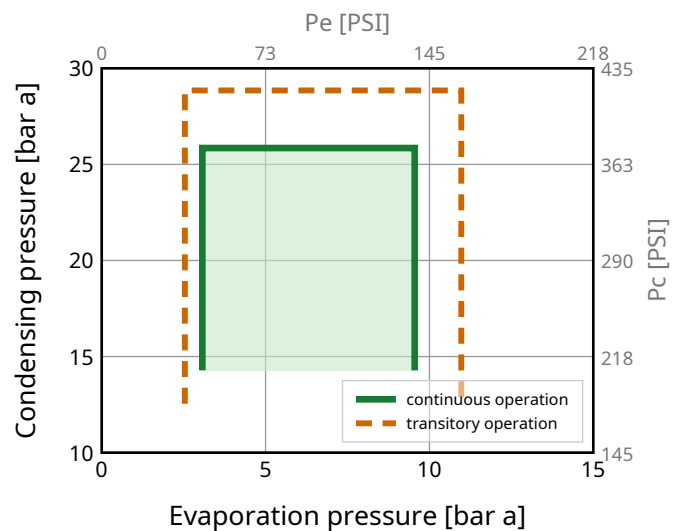
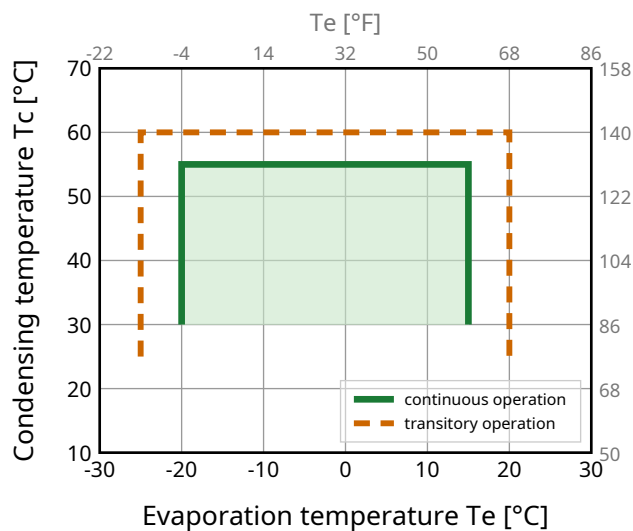
a2 relay 117U6005

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	$\dot{m}$	
[°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	$\dot{m}$
[°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