

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

Designation	SC10DL	220-240V/50Hz 1~	Sales code:	104L2525
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Compressor design

Oil type	Polyolester	Refrigerant(s)	R404A, R507, R407C
Oil viscosity	32cST	Displacement	10,29cm ³ / 0,63cu.in
Oil quantity	550cm ³ / 18,6fl.oz	Compressors on pallet	80
Refr. charge - tech. limit	1300g / 45,9oz		
Free gas volume comp.	1410cm ³ / 47,7fl.oz		
Weight	13,2kg / 29,1lbs		
Motor protection	1# internal		
Winding resistance main	5,13Ω (at 25°C)		
Winding resistance aux	13,51Ω (at 25°C)		
Max. winding temp.	125°C / 257°F		
Max. discharge temp.	130°C / 266°F		



General - Configurations with SC10DL

	Conf. 1
Motorconfiguration	CSIR
Power supply (nominal)	220-240V/50Hz
Number of phases	1
Voltage range	198-254V
Approvals	CCC, EAC, VDE
Starting torque	HST
Note	- / -

Applications with SC10DL

	Conf. 1
Refrigerant	R404A
Application	HBP
System cooling	fan 3m/s
Hot gas defrost	OK
Long interval pull down	OK

Electrical data - Configurations with SC10DL

	Conf. 1
Starting device type	relay
Run capacitor	-/-
Start capacitor	80μF
LRA (locked rotor amps / 4s)	16,2A
RLA (rated load amps / 1s)	3,1A
Cut in current	16,2A

Model

Designation

SC10DL

220-240V/50Hz 1~

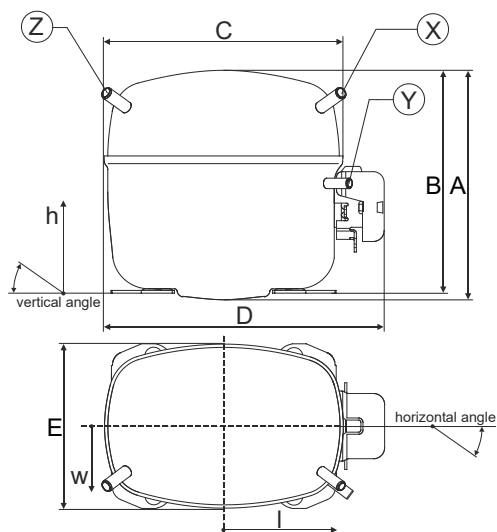
Sales code:

104L2525

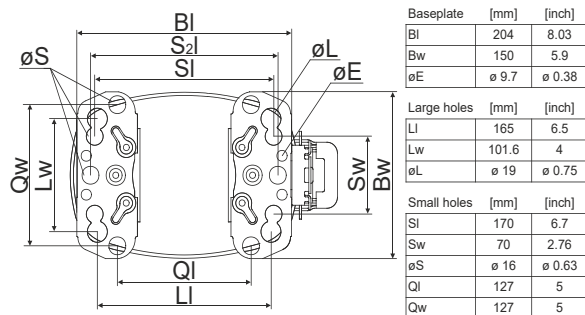
Compressor dimensions

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

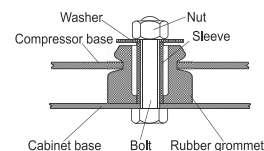
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8,11-8,29	øi 6,11-6,29	øi 6,11-6,29
(i:inside, o:outside) [in]	øi 0,32-0,33	øi 0,24-0,25	øi 0,24-0,25
Material	copper	copper	copper
Horizontal angle ±2°	37°	37°	143°
Vertical angle ±2°	30°	0°	150°
Position l/h/w [mm]	107/193/55	115/110/63	-107/193/55
[in]	4,2/7,6/2,2	4,5/4,3/2,5	-4,2/7,6/2,2
Straight tube l. [mm]	12	12	12
[in]	0,5	0,5	0,5



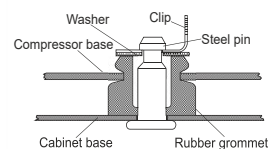
Compressor fixation



Bolt joint



Snap-on



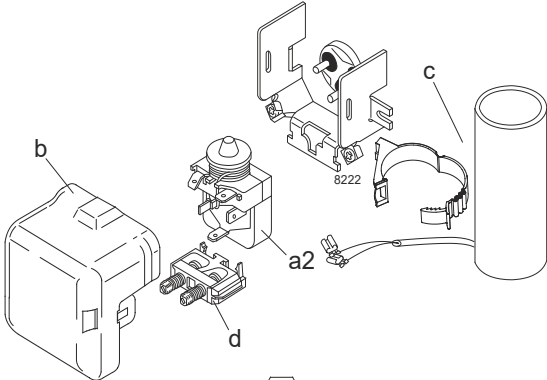
Mounting accessories

	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

Application notes

Provision for PE Grounding is located at the PE Stamp on the compressor

Model				
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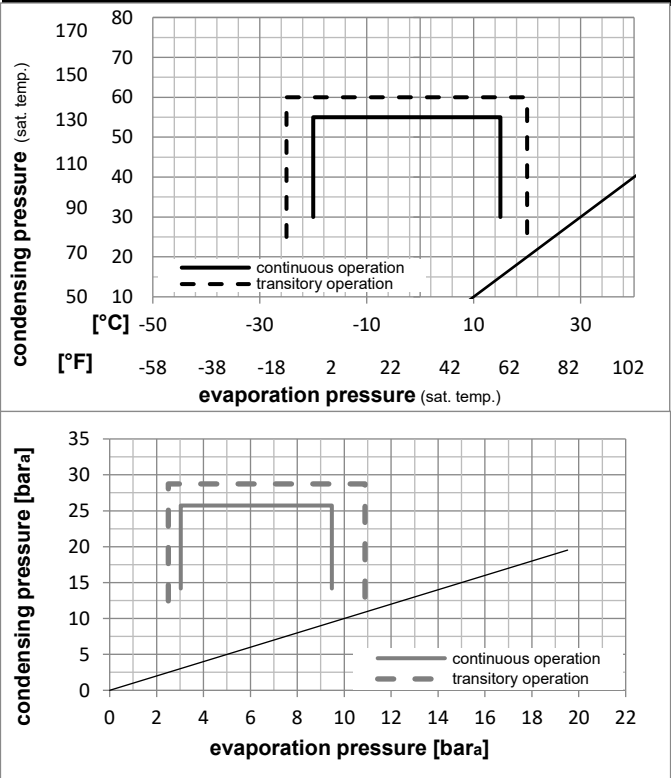
Configuration		Electrical accessories / wiring diagram		
Motorconfiguration	CSIR	CSIR 		
Power supply (nominal)	220-240V/50Hz 1~			
Refrigerant	R404A			
Application	HBP			
Voltage range	198-254V			
Starting torque	HST			
Approvals	CCC EAC VDE			

Ambient/ machine room temperatures minimum /maximum

Ambient temperature range:	10 - 38°C / 50 - 101°F
Machine room temperature range:	10 - 43°C / 50 - 110°F
Compressor cooling:	fan 3m/s

Operation Limits

Operation pressure range



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

Model

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SC10DL

220-240V/50Hz

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Optimization + standard conditions

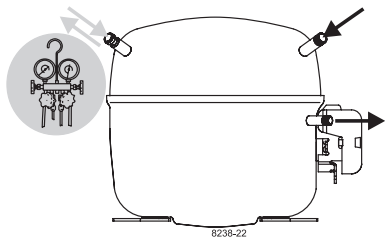
R404A, 220V/50Hz, CSIR, fan 3m/s, CCC, EAC, VDE

Evaporating pressure (saturation temperature)					Condensing pressure (saturation temperature)			Return gas temp.			Liquid temp.			Cooling capacity			COP			EER			Power consumption			Current consumption			Ref. mass flow	ASHRAE HBP
pe	pc	RGT	Tliq		[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]																	
[°C]	7,2	54	35	46	1478,2	5048	1272,2	2,15	7,35	1,85	686,7	3,80	42,03																	
[°F]	45	130	95	115																										
[°C]	5	55	32	55	1156,0	3948	994,8	1,71	5,85	1,47	674,9	3,74	38,50																	cecomaf HBP
[°F]	41	131	90	131																										
[°C]	5	50	20	50	1208,0	4126	1039,6	1,92	6,56	1,65	628,6	3,57	41,20																	EN12900 HBP
[°F]	41	122	68	122																										
[°C]	-7	54	35	46	838,2	2862	721,3	1,51	5,16	1,30	554,9	3,27	23,06																	ASHRAE MBP
[°F]	20	130	95	115																										
[°C]	-10	55	32	55	613,6	2096	528,1	1,19	4,05	1,02	517,8	3,12	19,64																	cecomaf MBP
[°F]	14	131	90	131																										
[°C]	-10	45	20	45	730,5	2495	628,7	1,53	5,21	1,31	478,5	2,97	22,00																	EN12900 MBP
[°F]	14	113	68	113																										

Performance tables

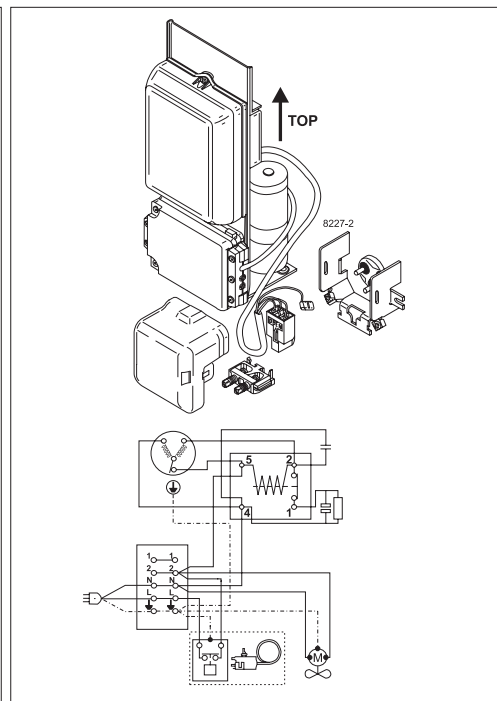
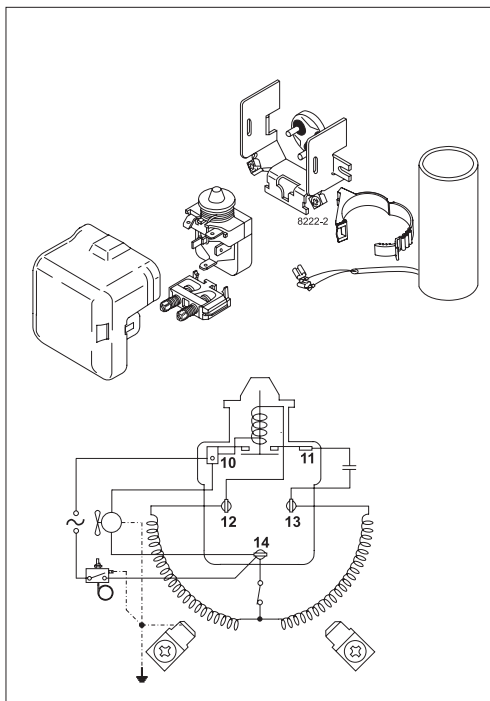
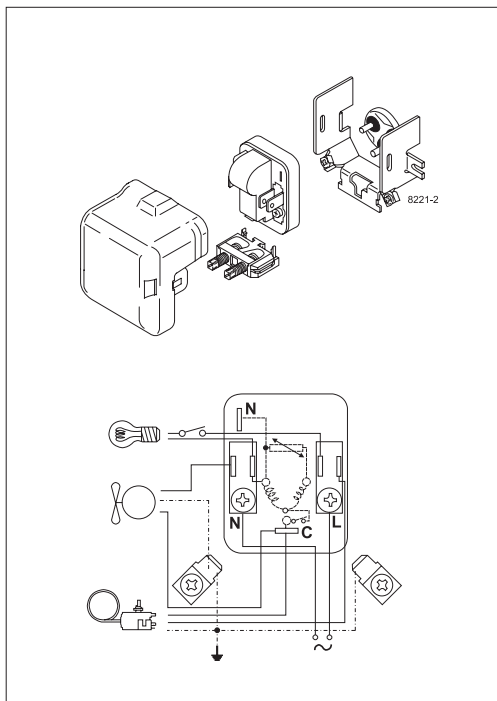
R404A, 220V/50Hz, CSIR, fan 3m/s, CCC, EAC, VDE

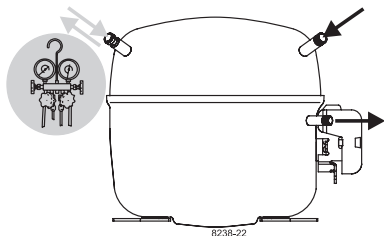
	pe		Cooling capacity			COP		EER		P1		I		m	
	[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]		[W]		[A]		[kg/h]	
[°C / °F]	-20	-4	471,3	1610	405,6	1,26	4,31	1,09		373,4		2,55		12,79	
cond. pressure	-15	5	610,8	2086	525,7	1,42	4,86	1,23		428,9		2,78		16,69	
pc= 45/113	-10	14	775,2	2648	667,2	1,62	5,53	1,39		478,5		2,97		21,35	
return gas temp.	-5	23	967,8	3305	832,9	1,85	6,33	1,60		522,0		3,15		26,91	
RGT= 32/90	0	32	1191,8	4070	1025,6	2,13	7,28	1,83		559,2		3,30		33,50	
liquid temp	5	41	1450,4	4953	1248,2	2,46	8,40	2,12		589,9		3,42		41,32	
Tliq= 45/113	15	59	2084,9	7120	1794,3	3,30	11,28	2,84		631,1		3,61		61,48	
[°C / °F]	-20	-4	349,8	1195	301,0	0,92	3,15	0,79		378,8		2,59		11,01	
cond. pressure	-15	5	474,1	1619	408,0	1,05	3,59	0,90		451,6		2,87		15,04	
pc= 55/131	-10	14	613,6	2096	528,1	1,19	4,05	1,02		517,8		3,12		19,64	
return gas temp	-5	23	771,6	2635	664,0	1,34	4,57	1,15		577,2		3,35		24,97	
RGT= 32/90	0	32	951,2	3249	818,7	1,51	5,16	1,30		629,6		3,56		31,19	
liquid temp	5	41	1156,0	3948	994,8	1,71	5,85	1,47		674,9		3,74		38,50	
Tliq= 55/131	15	59	1653,5	5647	1423,0	2,22	7,60	1,91		743,4		4,04		57,34	



SC Compressors

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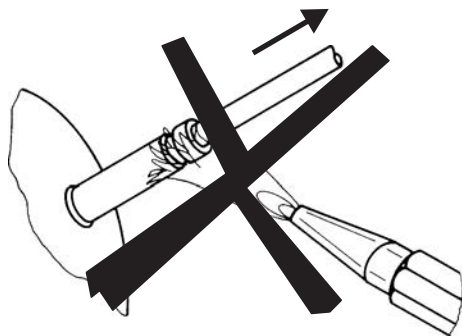




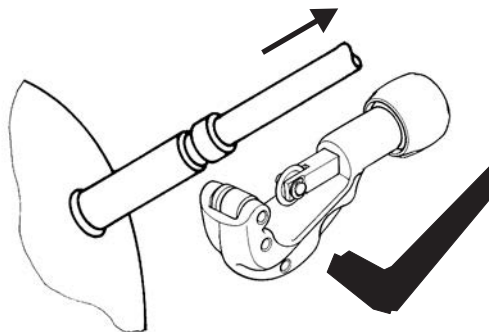
SC Compressors

Service/Repair – R290

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