

Model
SC15CL

Sales code:
104L2883

Compressor Data

Refrigerant(s)	R404A / R507
Refr. charge - tech. limit	1300g / 45.86oz
Weight	13.80 kg / 30.42lbs
Displacement	15.28 cm3 / 0.93cu.in
Compressors on pallet	80



General – Configurations With SC15CL

-	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, EAC
Starting torque	HST
Refrigerant	R404A
Application	LBP+MBP
Hot gas defrost	OK
Long interval pull down	OK

Application Notes

- Compressor with noise optimization kit.
- Provision for PE Grounding is located at the PE Stamp on the compressor

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Compressor Design

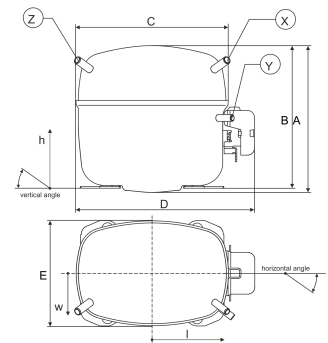
Oil type	POE	Winding resistance main	3.7 Ohm
Oil viscosity	32cSt	Winding resistance aux	14 Ohm
Oil quantity	499 / 16.87fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	1,510 cm ³ / 51.06fl.oz	Max. discharge temp.	130°C / 266°F
Motor protection	internal		

Compressor Dimensions

Housing

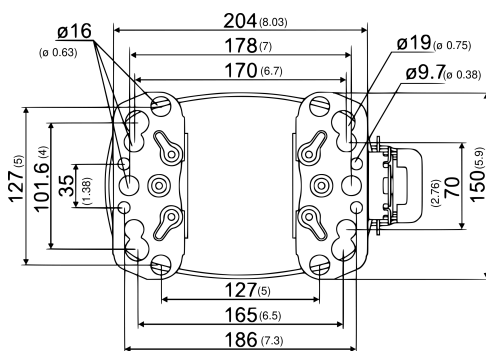
A Height	219mm / 8.62in
B Height	213mm / 8.39in
C Length shell	218mm / 8.58in
D Length w. cover	255mm / 10.04in
E Width	151mm / 5.94in

[Find 3D Model here](#)

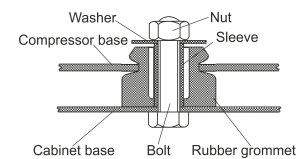


Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 10.11–10.29 / 0.40–0.41in	øi 6.11–6.29 / 0.24–0.25in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	143°
Vertical angle ±2°	30°	0°	150°
Position l/h/w [mm]	107/193/55 / 4.21/7.60/2.17in	115/110/63 / 4.53/4.33/2.48in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

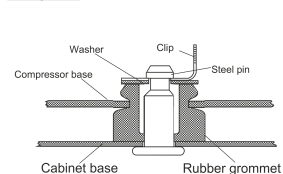
Mounting Accessories



Bolt joint



Snap-on



Dimensions in mm [in]

	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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Power supply (nominal)	220-240 V/50 Hz 1~
Refrigerant	R404A
Application	LBP+MBP
Voltage range	198-254 V
Starting torque	HST
Approvals	VDE, CCC, EAC
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

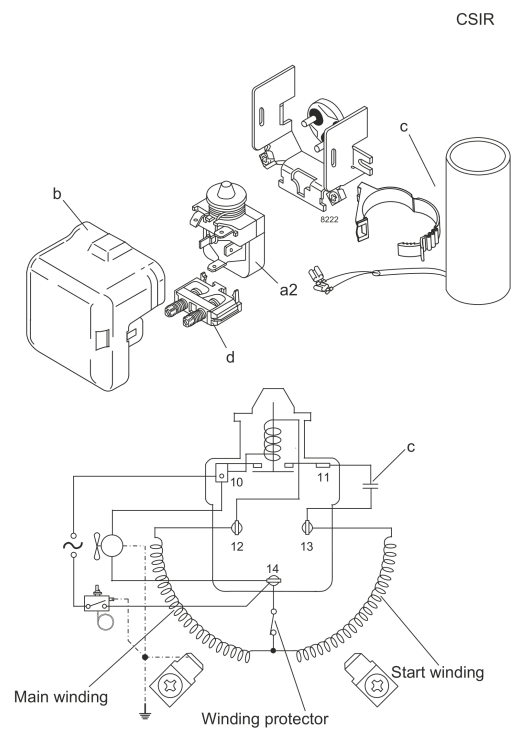
Ambient temperature range: 10 - 38°C / 50 - 100°F

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

Alternative components

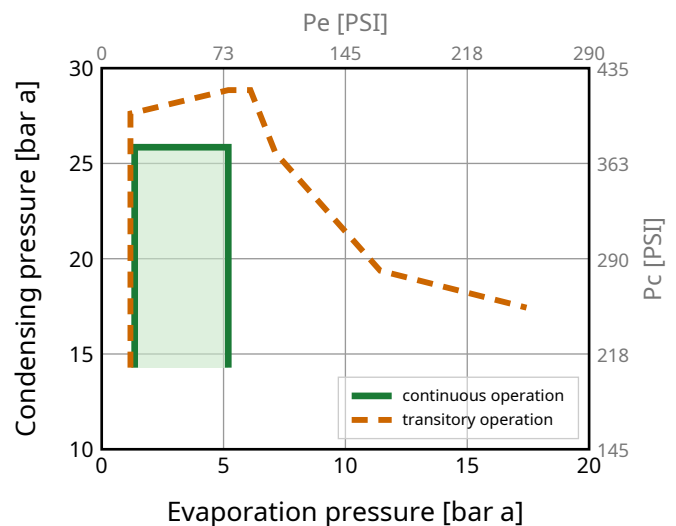
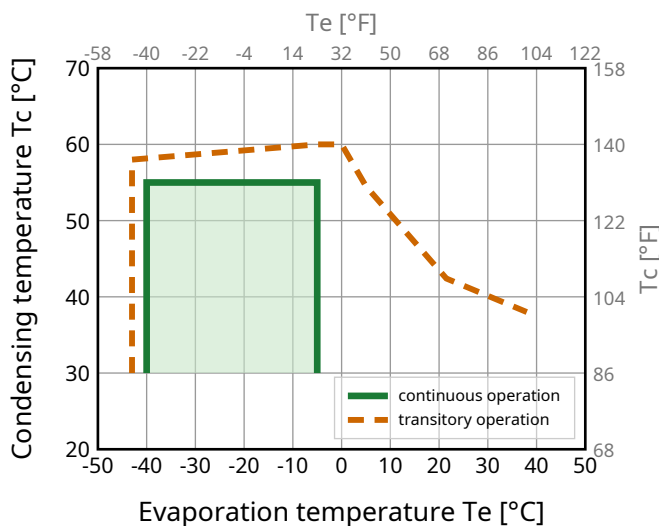
a2 relay 117U6019

c start capacitor i-pack 40# (80µF) 117U5067

d cord relief 103N1004

b plastic cover 103N2008

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]	
-23.3 -10	54.4 129.9	32.2 90	32.2 90	677	2311	582	1.28	4.36	530	2.85	15.74	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	451	1537	388	0.90	3.07	500	2.74	14.05	CECOMAF LBP
-35 -31	40 104	20 68	40 104	328	1119	282	0.89	3.04	368	2.26	8.89	EN12900 LBP
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	509	1737	438	0.95	3.26	533	2.87	17.96	ARI540 LBP
-23.3 -10	40.6 105.1	32.2 90	32.2 90	776	2648	667	1.47	5.01	528	2.86	18.04	AHAM LBP
-35 -31	45 113	32 89.6	45 113	295	1007	254	0.81	2.77	363	2.24	7.87	opt LBP

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]
-40	-40	188	640	161	0.66	2.24	286	1.95	4.99
-35	-31	295	1007	254	0.81	2.77	363	2.24	7.87
-30	-22	427	1456	367	0.98	3.34	436	2.51	11.43
-25	-13	584	1992	502	1.15	3.92	508	2.78	15.72
-20	-4	767	2618	660	1.32	4.51	580	3.05	20.78
-15	5	978	3338	841	1.50	5.10	654	3.34	26.68
-10	14	1218	4155	1047	1.66	5.66	734	3.65	33.48
-5	23	1487	5074	1279	1.82	6.20	819	4.00	41.28

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

-40	-40	112	381	96	0.43	1.46	261	1.84	3.43
-35	-31	205	701	177	0.60	2.06	340	2.14	6.34
-30	-22	318	1085	273	0.76	2.59	419	2.43	9.86
-25	-13	451	1537	388	0.90	3.07	500	2.74	14.05
-20	-4	604	2062	520	1.03	3.51	587	3.07	18.98
-15	5	780	2662	671	1.15	3.92	680	3.44	24.70
-10	14	979	3340	842	1.25	4.28	782	3.85	31.29
-5	23	1202	4102	1034	1.34	4.59	894	4.32	38.86