

Model

Designation	SC15CL	220-240V/50Hz 1~	Sales code:	104L2883
-------------	---------------	-------------------------	-------------	-----------------

Compressor design

Oil type	Polyolester	Refrigerant(s)	R404A, R507
Oil viscosity	32cSt	Displacement	15,28cm ³ / 0,93cu.in
Oil quantity	499cm ³ / 16,9fl.oz	Compressors on pallet	80
Refr. charge - tech. limit	1300g / 45,9oz		
Free gas volume comp.	1510cm ³ / 51,1fl.oz		
Weight	13,8kg / 30,4lbs		
Motor protection	1# internal		
Winding resistance main	3,7Ω (at 25°C)		
Winding resistance aux	14Ω (at 25°C)		
Max. winding temp.	125°C / 257°F		
Max. discharge temp.	130°C / 266°F		



General - Configurations with SC15CL

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

Applications with SC15CL

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

Electrical data - Configurations with SC15CL

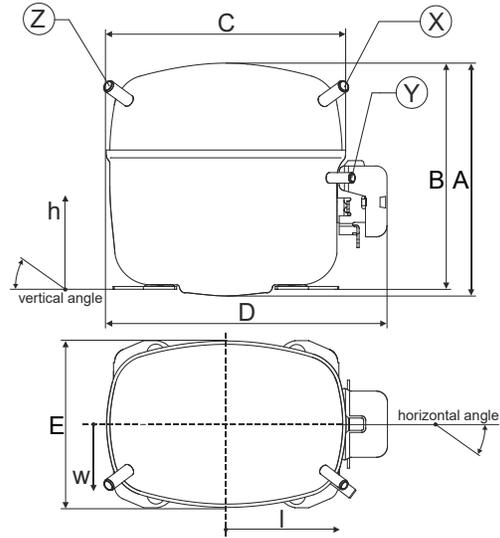
	Conf. 1
Starting device type	relay
Run capacitor	-/-
Start capacitor	80μF
LRA (locked rotor amps / 4s/ U(N))	20,43A
RLA (rated load amps / 1s/ U(N))	3,9A
Cut in current (U(N))	20,43A

Model

Designation	SC15CL	220-240V/50Hz 1~	Sales code:	104L2883
-------------	---------------	-------------------------	-------------	-----------------

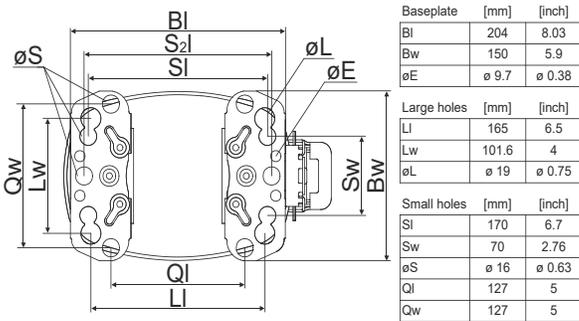
Compressor dimensions

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

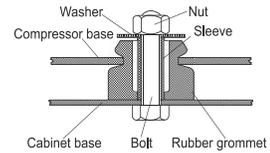


Connectors	Suction	Discharge	Process
	X	Y	Z
Diameter [mm]	øi 10,11-10,29	øi 6,11-6,29	øi 6,11-6,29
(i:inside, o:outside) [in]	øi 0,4-0,41	øi 0,24-0,25	øi 0,24-0,25
Material	copper	copper	copper
Horizontal angle	±2° 37°	±2° 37°	±2° 143°
Vertical angle	±2° 30°	±2° 0°	±2° 150°
Position l/h/w [mm]	107/193/55	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

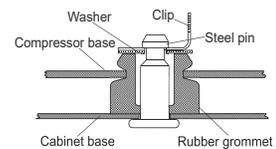
Compressor fixation



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

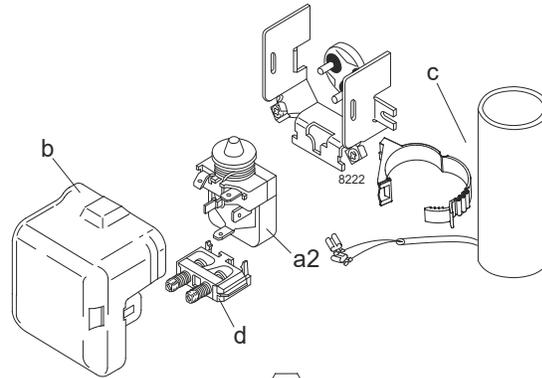
Designation **SC15CL** **220-240V/50Hz** Conf. 1 Sales code: **104L2883**

Configuration

Electrical accessories / wiring diagram

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

CSIR

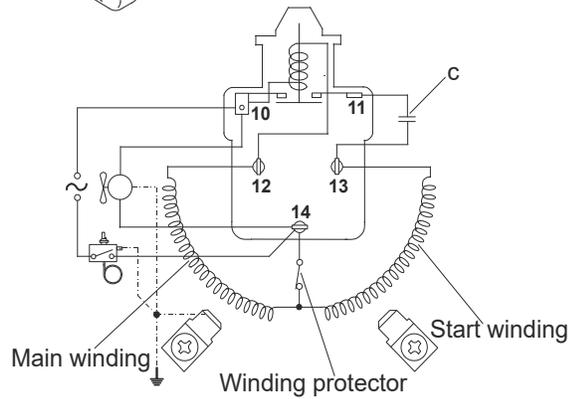


Ambient/ machine room temperatures minimum /maximum

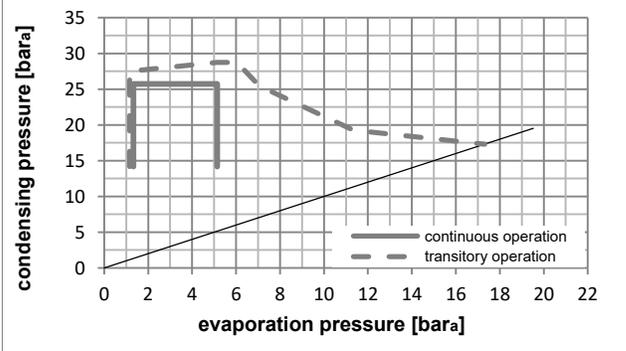
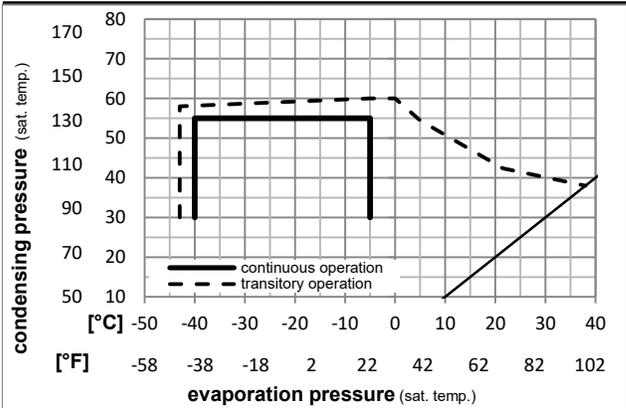
Ambient temperature range: 10 - 38°C / 50 - 101°F

Machine room temperature range: 10 - 43°C / 50 - 110°F

Compressor cooling: fan 3m/s



Operation pressure range



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

Model

Designation **SC15CL** **220-240V/50Hz** Conf. 1 Sales code: **104L2883**

Optimization + standard conditions

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

	Evaporating pressure (saturation temperature)				Condensing pressure (saturation temperature)			Return gas temp.			Liquid temp.			Cooling capacity			COP	EER	Power consumption		
	pe	pc	RGT	Tliq	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	I	m	[W]	[A]	[kg/h]					
[°C]	-23	54	32	32	675,6	2307	581,4	1,28	4,36	1,10	529,3	2,85	15,74								
[°F]	-10	130	90	90																	ASHRAE LBP
[°C]	-25	55	32	55	450,6	1539	387,8	0,90	3,08	0,77	500,5	2,74	14,08								cecomaf LBP
[°F]	-13	131	90	131																	
[°C]	-35	40	20	40	327,8	1120	282,1	0,89	3,04	0,77	367,9	2,26	8,91								EN12900 LBP
[°F]	-31	104	68	104																	
[°C]	-23	49	4,4	49	506,7	1731	436,1	0,95	3,25	0,82	532,7	2,87	17,94								ARI540 LBP
[°F]	-10	120	40	120																	
[°C]	-23	41	32	32	774,6	2645	666,6	1,47	5,01	1,26	527,9	2,86	18,05								AHAM LBP
[°F]	-10	105	90	90																	
[°C]	-35	45	32	45	295,1	1008	253,9	0,81	2,78	0,70	362,9	2,24	7,89								opt
[°F]	-31	113	90	113																	

Performance tables

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

	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]	-40	-40	187,6	641	161,5	0,66	2,24	0,57	285,6	1,94	5,00	
cond. pressure	-35	-31	295,1	1008	253,9	0,81	2,78	0,70	362,9	2,24	7,89	
pc= 45/113	-30	-22	426,8	1458	367,3	0,98	3,34	0,84	436,3	2,51	11,46	
return gas temp.	-25	-13	583,9	1994	502,5	1,15	3,93	0,99	507,9	2,78	15,75	
RGT= 32/90	-20	-4	767,4	2621	660,4	1,32	4,52	1,14	580,0	3,05	20,82	
liquid temp	-15	5	978,4	3341	842,0	1,49	5,11	1,29	654,5	3,34	26,73	
Tliq= 45/113	-5	23	1487,0	5078	1279,7	1,82	6,20	1,56	819,0	3,99	41,34	
[°C / °F]	-40	-40	111,7	381	96,1	0,43	1,46	0,37	260,7	1,84	3,44	
cond. pressure	-35	-31	205,4	701	176,7	0,60	2,07	0,52	339,5	2,14	6,35	
pc= 55/131	-30	-22	318,0	1086	273,7	0,76	2,59	0,65	418,7	2,43	9,88	
return gas temp	-25	-13	450,6	1539	387,8	0,90	3,08	0,77	500,5	2,74	14,08	
RGT= 32/90	-20	-4	604,3	2064	520,1	1,03	3,52	0,89	586,8	3,07	19,01	
liquid temp	-15	5	780,1	2664	671,4	1,15	3,92	0,99	679,8	3,43	24,74	
Tliq= 55/131	-5	23	1202,2	4106	1034,6	1,34	4,59	1,16	894,1	4,32	38,91	