

Model

SC15CL

Sales code:

104L2875

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	Conf. 2
Motor configuration	CSIR	CSCR
Power supply (nominal)	220-240 V/50 Hz	220-240 V/50 Hz
Number of phases	1	1
Voltage range	198-254 V	198-254 V
Approvals	VDE	VDE
Starting torque	HST	HST
Refrigerant	R404A	R404A
Application	LBP+MBP	LBP+MBP
Hot gas defrost	OK	OK
Long interval pull down	OK	OK

Application Notes

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

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Compressor Design

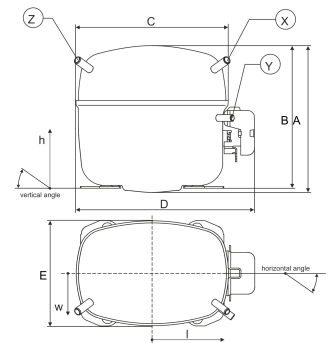
Oil type	POE	Winding resistance main	3.7 Ohm
Oil viscosity	32cSt	Winding resistance aux	14 Ohm
Oil quantity	555 / 18.77fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	1,510 cm ³ / 51.06fl.oz	Max. discharge temp.	130°C / 266°F
Motor protection	internal		

Compressor Dimensions

Housing

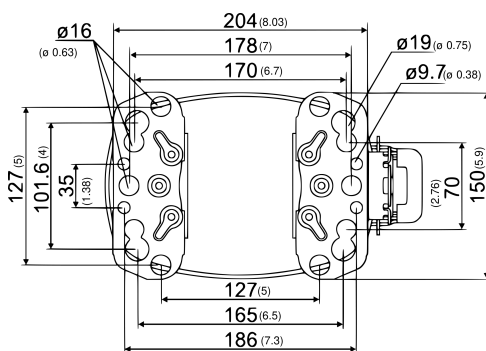
A Height	219mm / 8.62in
B Height	213mm / 8.39in
C Length shell	239mm / 9.41in
D Length w. cover	255mm / 10.04in
E Width	151mm / 5.94in

[Find 3D Model here](#)

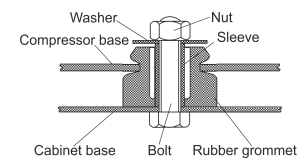


Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 9.54–9.72 / 0.38–0.38in	øi 6.41–6.59 / 0.25–0.26in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	143°
Vertical angle ±2°	30°	0°	150°
Position l/h/w [mm]	107/193/55 / 4.21/7.60/2.17in	115/110/63 / 4.53/4.33/2.48in	-107/193/55 / -4.21/7.60/2.17in
Straight tube l. [mm]	12 / 0.47in	12 / 0.47in	12 / 0.47in

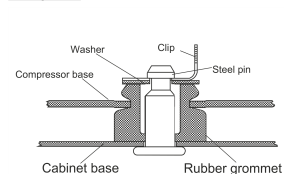
Mounting Accessories



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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Configuration 1

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Configuration

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

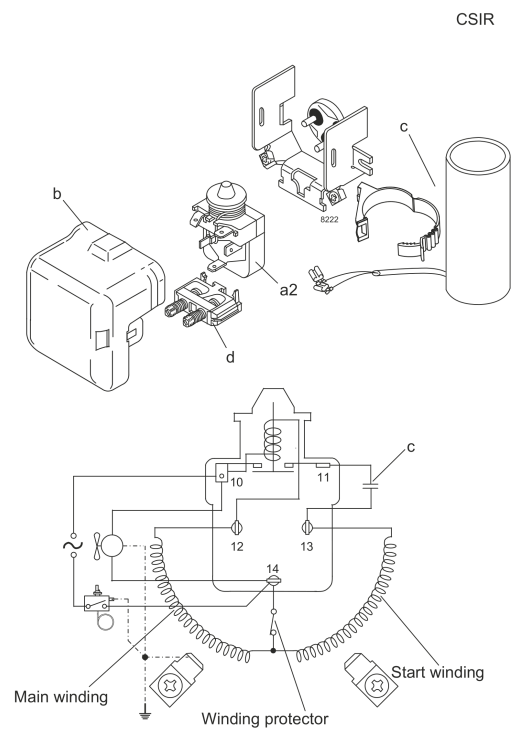
Ambient temperature range: 10 - 43°C / 50 - 109°F

Machine room temp. compressor: 10 - 48°C / 50 - 118°F

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



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Components

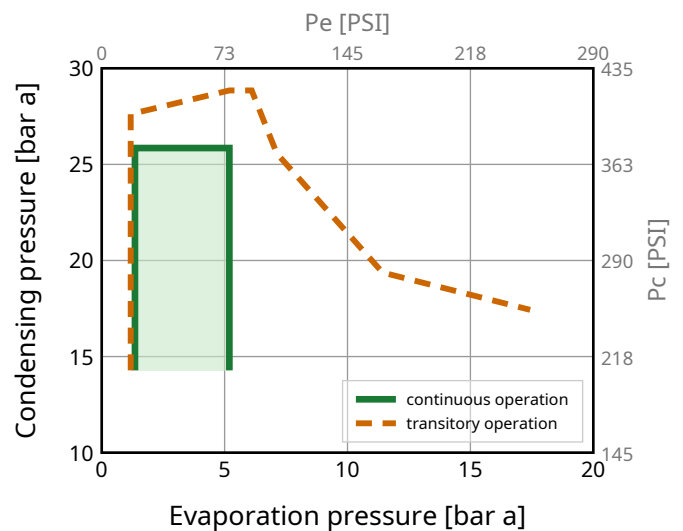
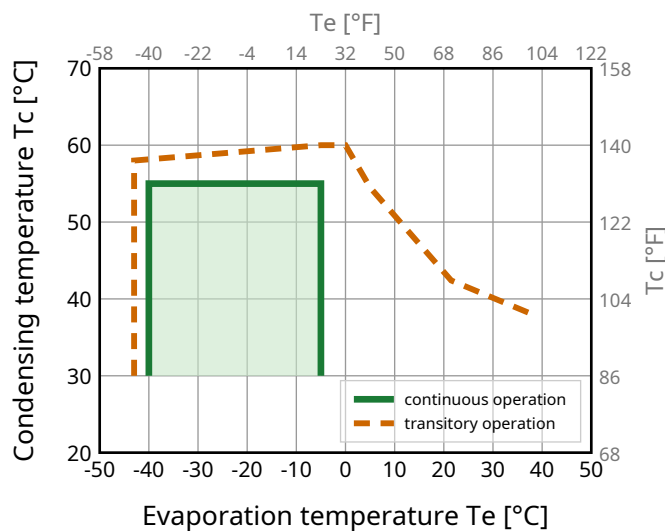
a2 relay 117U6019

c start capacitor (80µF) 117U5017

d cord relief 103N1004

b plastic cover 103N2009

Operation Pressure Range



Model
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Configuration 1

Sales code:
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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	708	2414	609	1.19	4.07	593	3.60	16.45	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	472	1611	406	0.83	2.84	567	3.50	14.72	CECOMAF LBP
-35 -31	40 104	20 68	40 104	361	1232	311	0.85	2.90	425	3.03	9.79	EN12900 LBP
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	530	1807	456	0.90	3.06	590	3.58	18.69	ARI540 LBP
-23.3 -10	40.6 105.1	32.2 90	32.2 90	793	2705	682	1.44	4.92	550	3.41	18.43	AHAM LBP
-35 -31	45 113	32 89.6	45 113	329	1122	283	0.75	2.55	441	3.08	8.77	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	217	739	186	0.56	1.92	385	2.92	5.76
-35	-31	329	1122	283	0.75	2.55	441	3.08	8.77
-30	-22	459	1565	394	0.93	3.16	496	3.25	12.28
-25	-13	609	2077	523	1.10	3.75	554	3.44	16.38
-20	-4	781	2665	672	1.26	4.31	619	3.67	21.15
-15	5	978	3339	842	1.41	4.81	694	3.96	26.68
-10	14	1204	4106	1035	1.53	5.24	784	4.33	33.09
-5	23	1458	4976	1254	1.64	5.58	892	4.79	40.49

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

-40	-40	106	363	92	0.31	1.06	341	2.76	3.27
-35	-31	214	730	184	0.51	1.74	419	3.01	6.60
-30	-22	335	1143	288	0.68	2.32	493	3.25	10.39
-25	-13	472	1611	406	0.83	2.84	567	3.50	14.72
-20	-4	628	2142	540	0.98	3.33	643	3.78	19.71
-15	5	804	2744	692	1.11	3.77	727	4.10	25.46
-10	14	1004	3426	864	1.22	4.17	822	4.49	32.10
-5	23	1230	4197	1058	1.32	4.51	930	4.96	39.76

Model
SC15CL

Configuration 2

Sales code:
104L2875

Configuration

Motor configuration	CSCR
Power supply (nominal)	220-240 V/50 Hz 1~
Refrigerant	R404A
Application	LBP+MBP
Voltage range	198-254 V
Starting torque	HST
Approvals	VDE
Starting device type	relay
Run capacitor	10 μF
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

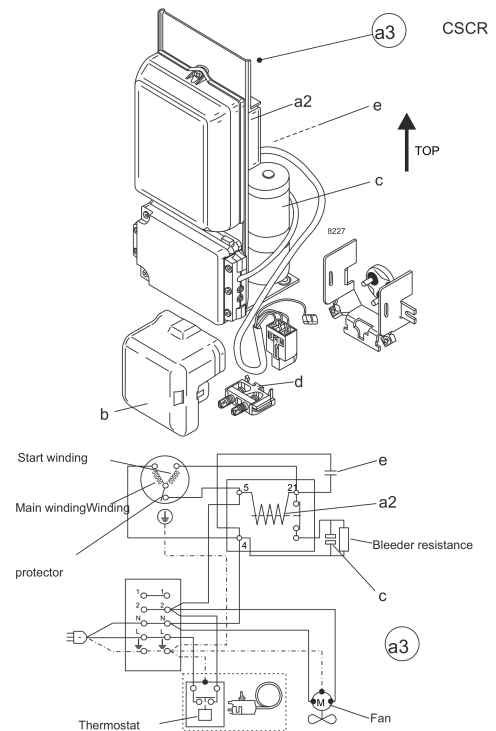
Ambient temperature range: 10 - 38°C / 50 - 100°F

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

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



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Components

a3 SC starter kit (550mm) 117-7027

b plastic cover 103N2009

d cord relief 103N1004

Alternative components

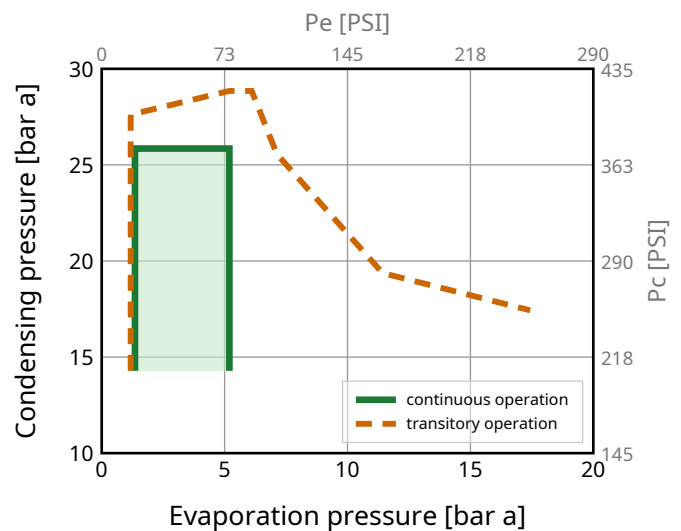
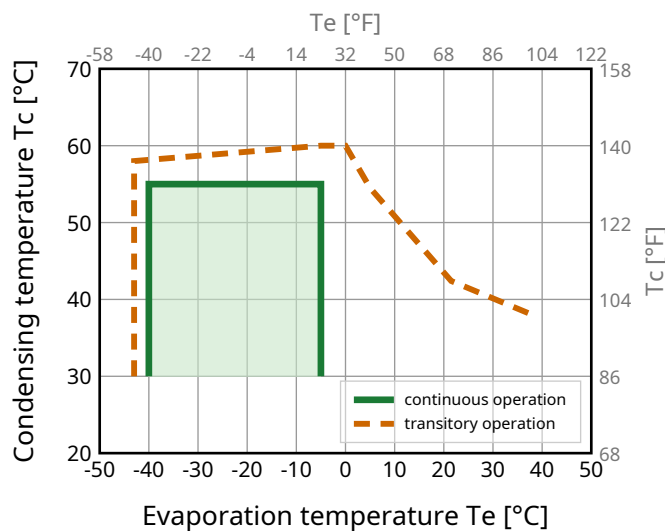
a3 SC starter kit (1000mm) 117-7040

a3 SC starter kit (650mm) 117-7046

c start capacitor (80 μ F) 117U5373

e run capacitor (10 μ F, 6.3mm) 117-7112

Operation Pressure Range



Model
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Configuration 2

Sales code:
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Standard Conditions

R404A, 220 V/50 Hz, CSCR, 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	704	2403	606	1.32	4.51	533	3.25	16.37	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	460	1571	396	0.92	3.15	499	3.15	14.36	CECOMAF LBP
-35 -31	40 104	20 68	40 104	358	1221	308	0.95	3.23	378	2.79	9.70	EN12900 LBP
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	538	1836	463	0.99	3.39	542	3.30	18.98	ARI540 LBP
-23.3 -10	40.6 105.1	32.2 90	32.2 90	814	2777	700	1.58	5.39	515	3.25	18.92	AHAM LBP
-35 -31	45 113	32 89.6	45 113	302	1032	260	0.83	2.82	366	2.79	8.07	opt LBP

Performance Tables

R404A, 220 V/50 Hz, CSCR, 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	153	521	131	0.56	1.91	273	2.59	4.06
-35	-31	302	1032	260	0.83	2.82	366	2.79	8.07
-30	-22	457	1559	393	1.03	3.51	444	3.00	12.24
-25	-13	621	2120	534	1.21	4.14	512	3.22	16.72
-20	-4	800	2729	688	1.39	4.73	577	3.45	21.66
-15	5	998	3405	858	1.55	5.28	645	3.69	27.21
-10	14	1221	4165	1050	1.69	5.77	722	3.94	33.56
-5	23	1472	5024	1266	1.81	6.17	815	4.20	40.88

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

-40	-40	-	-	-	-	-	-	2.35	-
-35	-31	125	428	108	0.45	1.53	280	2.61	3.87
-30	-22	292	996	251	0.73	2.50	398	2.87	9.05
-25	-13	460	1571	396	0.92	3.15	499	3.15	14.36
-20	-4	635	2168	546	1.08	3.68	589	3.43	19.95
-15	5	822	2805	707	1.22	4.15	676	3.72	26.02
-10	14	1025	3498	882	1.34	4.58	763	4.03	32.76
-5	23	1250	4263	1075	1.46	4.96	859	4.34	40.39