

Model

SC18CLX.2

Sales code:

104L2191

Compressor Data

Refrigerant(s)	R404A / R507
Refr. charge - tech. limit	1300g / 45.86oz
Weight	13.80 kg / 30.42lbs
Displacement	17.69 cm3 / 1.08cu.in
Compressors on pallet	80



General – Configurations With SC18CLX.2

-	Conf. 1
Motor configuration	CSIR
Power supply (nominal)	208-240 V/50 Hz
Number of phases	1
Voltage range	198-254 V
Approvals	VDE, CCC, EAC
Starting torque	HST
Refrigerant	R404A
Application	LBP
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

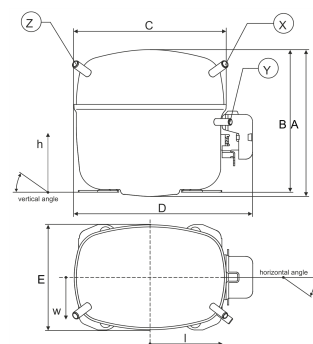
Oil type	POE	Winding resistance main	3.300 Ohm
Oil viscosity	32cSt	Winding resistance aux	16.00 Ohm
Oil quantity	550 / 18.60fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	1,460 cm3 / 49.37fl.oz	Max. discharge temp.	130°C / 266°F
Motor protection	internal		

Compressor Dimensions

Housing

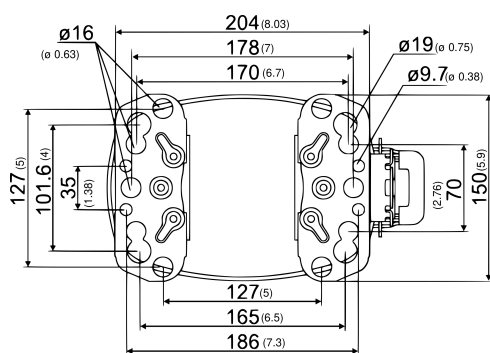
A Height	219mm / 8.62in
B Height	213mm / 8.39in
C Length shell	218mm / 8.58in
D Length w. cover	255mm / 10.04in
E Width	151mm / 5.94in

[Find 3D Model here](#)



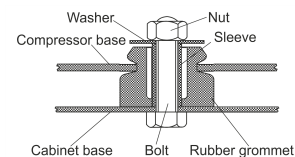
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 10.11–10.29 / 0.40–0.41in	øi 6.11–6.29 / 0.24–0.25in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	143°
Vertical angle ±2°	30°	0°	150°
Position l/h/w [mm]	107/193/55 / 4.21/7.60/2.17in	115/110/63 / 4.53/4.33/2.48in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

Mounting Accessories

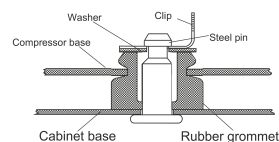


Dimensions in mm [in]

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)	208-240 V/50 Hz 1~
Refrigerant	R404A
Application	LBP
Voltage range	198-254 V
Starting torque	HST
Approvals	VDE, CCC, EAC
Starting device type	relay
Run capacitor	-/-
Start capacitor	125 µF
LRA (locked rotor amps / 4s/ U(N))	25 A
RLA (rated load amps / 1s/ U(N))	4.5 A
Cut in current (U(N))	25 A

Ambient/ machine room temperatures minimum /maximum

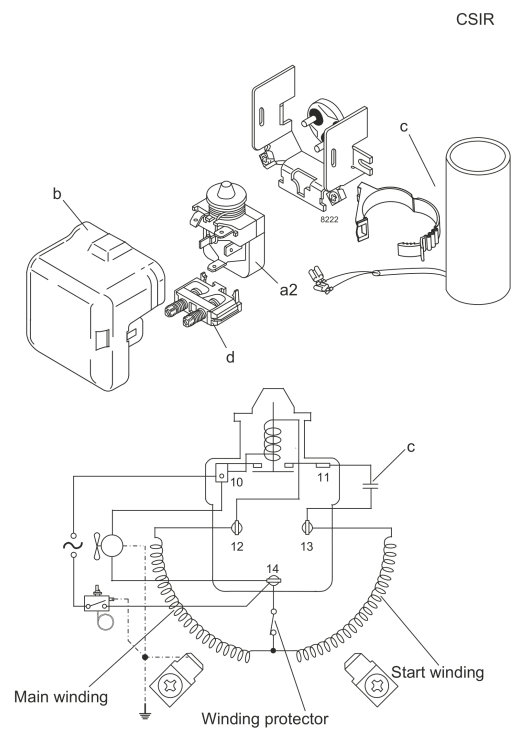
Ambient temperature range: 10 - 38°C / 50 - 100°F

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

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



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Components

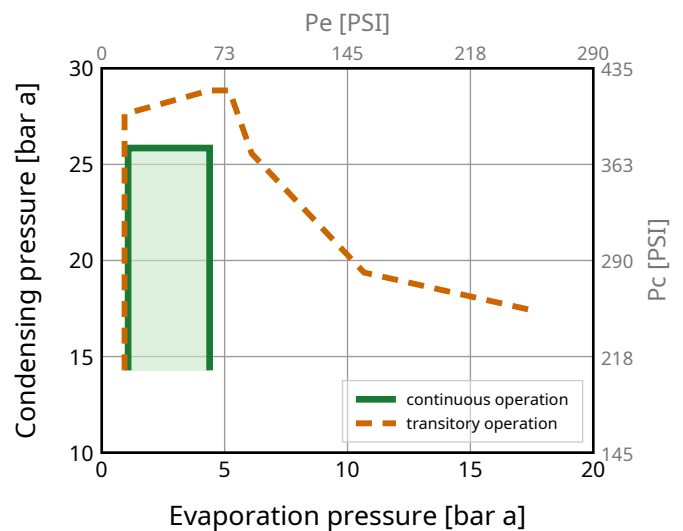
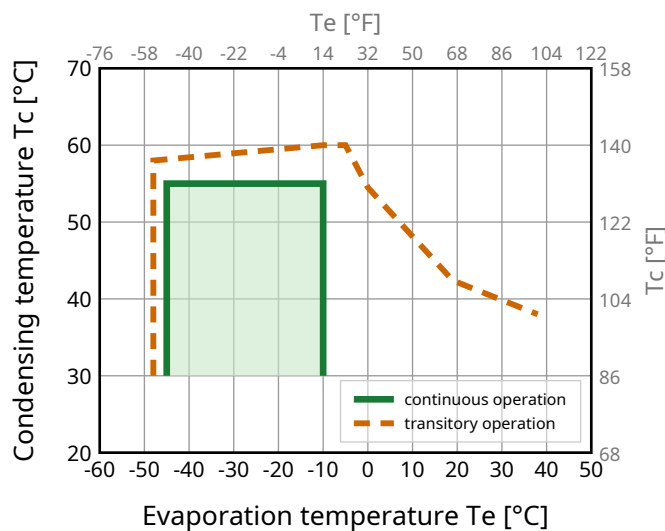
a2 relay 117U6013

c start capacitor (125µF) 117U5012

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	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	857	2923	737	1.24	4.23	691	4.29	19.92	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	577	1968	496	0.88	3.00	656	4.18	17.99	CECOMAF LBP
-35 -31	40 104	20 68	40 104	438	1495	377	0.89	3.03	494	3.54	11.87	EN12900 LBP
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	641	2187	551	0.94	3.21	681	4.25	22.61	ARI540 LBP
-23.3 -10	40.6 105.1	32.2 90	32.2 90	962	3282	827	1.48	5.03	652	4.18	22.36	AHAM LBP
-25 -13	45 113	32 89.6	45 113	738	2518	635	1.16	3.94	639	4.12	19.87	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]
-45	-49	108	369	93	0.27	0.93	397	3.01	2.87
-40	-40	249	850	214	0.57	1.95	437	3.27	6.62
-35	-31	398	1356	342	0.81	2.76	491	3.54	10.60
-30	-22	559	1906	480	1.00	3.41	560	3.83	14.96
-25	-13	738	2518	635	1.16	3.94	639	4.12	19.87
-20	-4	942	3213	810	1.29	4.42	728	4.42	25.50
-15	5	1175	4009	1010	1.43	4.87	823	4.73	32.03
-10	14	1443	4925	1241	1.56	5.33	923	5.05	39.68

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

-45	-49	12	40	10	0.04	0.12	325	2.89	0.35
-40	-40	146	496	125	0.37	1.27	392	3.20	4.47
-35	-31	281	957	241	0.60	2.03	471	3.51	8.66
-30	-22	422	1442	363	0.76	2.58	560	3.84	13.10
-25	-13	577	1968	496	0.88	3.00	656	4.18	17.99
-20	-4	749	2556	644	0.99	3.37	758	4.52	23.52
-15	5	945	3225	813	1.09	3.73	864	4.88	29.92
-10	14	1170	3993	1007	1.21	4.11	971	5.24	37.41