

Model

SCE18CNLX

Sales code:

104H7888

Compressor Data

Refrigerant(s)	R290
Refr. charge - tech. limit	450g / 15.87oz
Weight	14.20 kg / 31.31lbs
Displacement	17.68 cm3 / 1.08cu.in
Compressors on pallet	80



General – Configurations With SCE18CNLX

-	Conf. 1
Motor configuration	CSIR
Power supply (nominal)	115 V/60 Hz
Number of phases	1
Voltage range	103-127 V
Approvals	UL
Starting torque	HST
Refrigerant	R290
Application	LBP
Hot gas defrost	OK

Application Notes

- Protector and cover are included and pre-assembled to compressor.
- Provision for PE Grounding is located at the PE Stamp on the compressor

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Compressor Design

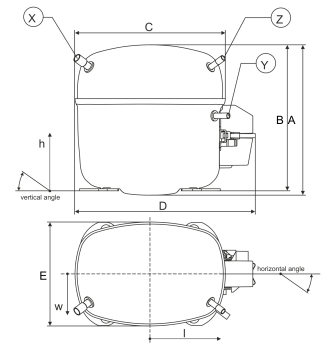
Oil type	POE	Winding resistance main	0.800 Ohm
Oil viscosity	32cSt	Winding resistance aux	2.90 Ohm
Oil quantity	550 / 18.60fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	1,460 cm³ / 49.37fl.oz	Max. discharge temp.	140°C / 284°F
Motor protection	external		

Compressor Dimensions

Housing

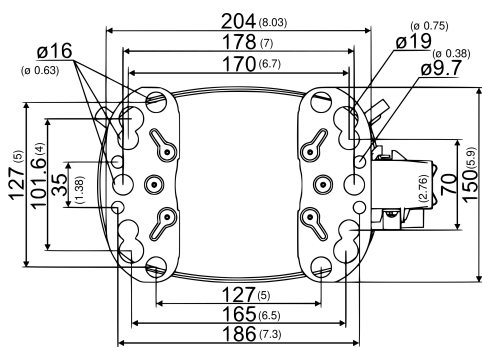
A Height	219mm / 8.62in
B Height	213mm / 8.39in
C Length shell	218mm / 8.58in
D Length w. cover	255mm / 10.04in
E Width	151mm / 5.94in

[Find 3D Model here](#)



Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 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

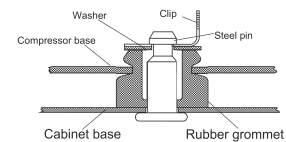
Mounting Accessories



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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Motor configuration	CSIR
Power supply (nominal)	115 V/60 Hz 1~
Refrigerant	R290
Application	LBP
Voltage range	103-127 V
Starting torque	HST
Approvals	UL
Starting device type	relay
Run capacitor	-/-
Start capacitor	280 µF
LRA (locked rotor amps / 4s/ U(N))	43.13 A
RLA (rated load amps / 1s/ U(N))	8.3 A
Cut in current (U(N))	43.13 A

Ambient/ machine room temperatures minimum /maximum

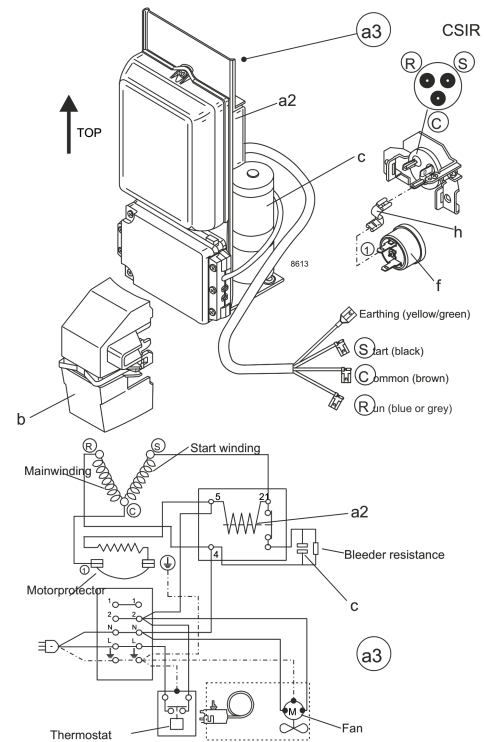
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



[View full size](#)

Components (protector + ~holder + cover: pre assembled)

a3 SC starter kit (550mm) 117-7802

h protector holder 117U0439

f ext. protector (T1101) 117U3218

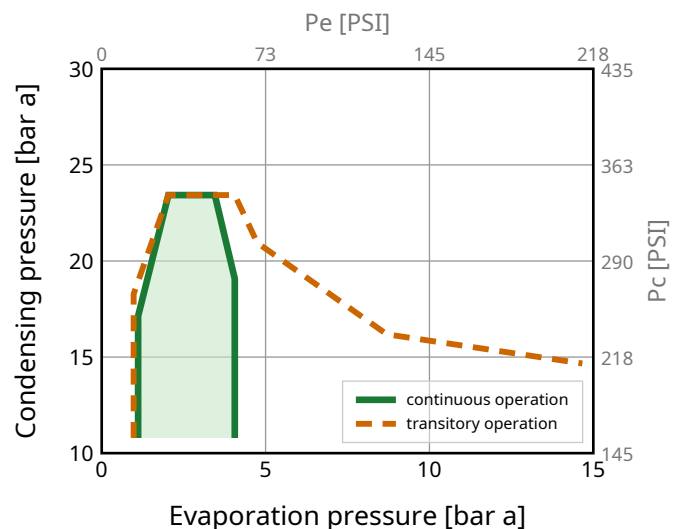
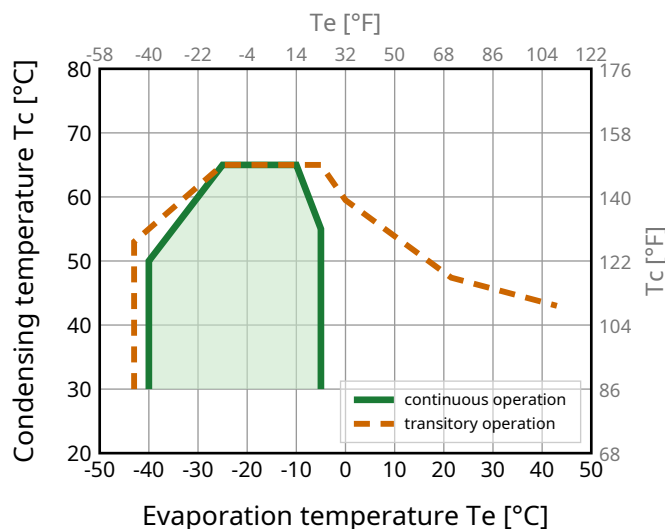
b plastic cover + clamp 117U1021

Alternative components

a2 potential relay (RVA 7AA3R) 117-7441

c start capacitor (280µF, 6.3mm) 117U5350

Operation Pressure Range



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Standard Conditions

R290, 115 V/60 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	943	3216	811	1.53	5.23	615	6.08	9.58	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	689	2352	593	1.18	4.03	584	5.84	8.64	CECOMAF LBP
-35 -31	40 104	20 68	40 104	462	1578	398	1.10	3.75	421	4.71	5.31	EN12900 LBP
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	785	2679	675	1.29	4.40	609	6.03	10.90	ARI540 LBP
-23.3 -10	40.6 105.1	32.2 90	32.2 90	1072	3657	922	1.81	6.17	592	5.91	10.89	AHAM LBP
-25 -13	45 113	32 89.6	45 113	846	2887	728	1.47	5.02	576	5.78	9.59	opt LBP

Performance Tables

R290, 115 V/60 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	162	552	139	0.50	1.71	323	4.12	1.82
-35	-31	401	1367	345	0.97	3.32	412	4.65	4.52
-30	-22	624	2128	536	1.26	4.29	496	5.21	7.05
-25	-13	846	2887	728	1.47	5.02	576	5.78	9.59
-20	-4	1084	3697	932	1.67	5.69	649	6.36	12.33
-15	5	1352	4611	1162	1.88	6.42	718	6.91	15.44
-10	14	1666	5683	1432	2.13	7.28	780	7.43	19.13
-5	23	2041	6965	1756	2.44	8.33	836	7.89	23.58

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

-40	-40	75	257	65	0.26	0.88	292	3.95	0.94
-35	-31	294	1004	253	0.75	2.56	392	4.53	3.66
-30	-22	494	1684	424	1.01	3.44	489	5.17	6.17
-25	-13	689	2352	593	1.18	4.03	584	5.84	8.64
-20	-4	896	3059	771	1.33	4.53	675	6.55	11.28
-15	5	1131	3859	973	1.48	5.06	762	7.26	14.30
-10	14	1408	4804	1211	1.67	5.68	845	7.95	17.91
-5	23	1743	5948	1499	1.89	6.44	924	8.62	22.31