

Model
SCE15CNLX

Sales code:
104H8577

Compressor Data

Refrigerant(s)	R290
Refr. charge - tech. limit	450g / 15.87oz
Weight	14.20 kg / 31.31lbs
Displacement	15.28 cm3 / 0.93cu.in
Compressors on pallet	80



General – Configurations With SCE15CNLX

-	Conf. 1
Motor configuration	CSCR
Power supply (nominal)	208-230 V/60 Hz
Number of phases	1
Voltage range	187-253 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

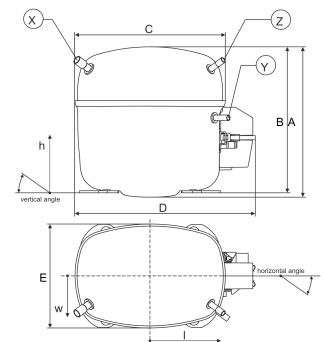
Oil type	POE	Winding resistance main	3.410 Ohm
Oil viscosity	32cSt	Winding resistance aux	9.35 Ohm
Oil quantity	550 / 18.60fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	1,460 cm³ / 49.37fl.oz	Max. discharge temp.	135°C / 275°F
Motor protection	external		

Compressor Dimensions

Housing

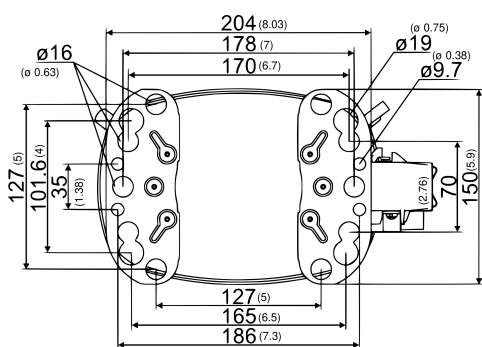
A Height	219mm / 8.62in
B Height	213mm / 8.39in
C Length shell	218mm / 8.58in
D Length w. cover	255mm / 10.04in
E Width	151mm / 5.94in

[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

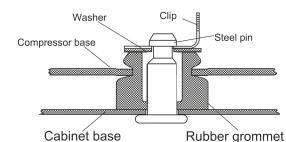
Mounting Accessories



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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Configuration 1

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Configuration

Motor configuration	CSCR
Power supply (nominal)	208-230 V/60 Hz 1~
Refrigerant	R290
Application	LBP
Voltage range	187-253 V
Starting torque	HST
Approvals	UL
Starting device type	relay
Run capacitor	10 μF
Start capacitor	80 μF
LRA (locked rotor amps / 4s/ U(N))	19.13 A
RLA (rated load amps / 1s/ U(N))	2.2 A
Cut in current (U(N))	19.13 A

Ambient/ machine room temperatures minimum /maximum

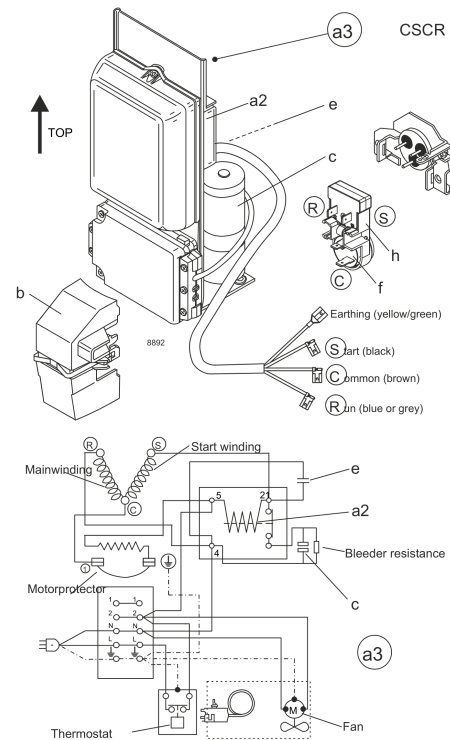
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



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

a3 SC starter kit (550mm) 117-7809

f / h motor protector assy. (T1132) 117U8004

b plastic cover + clamp 117U1021

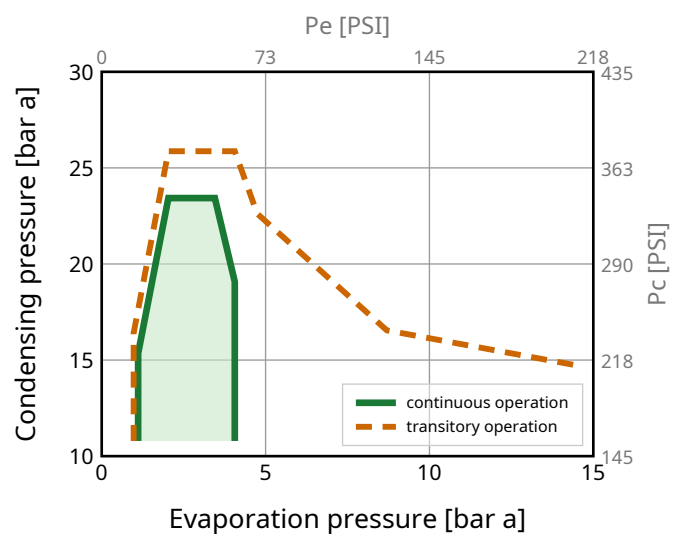
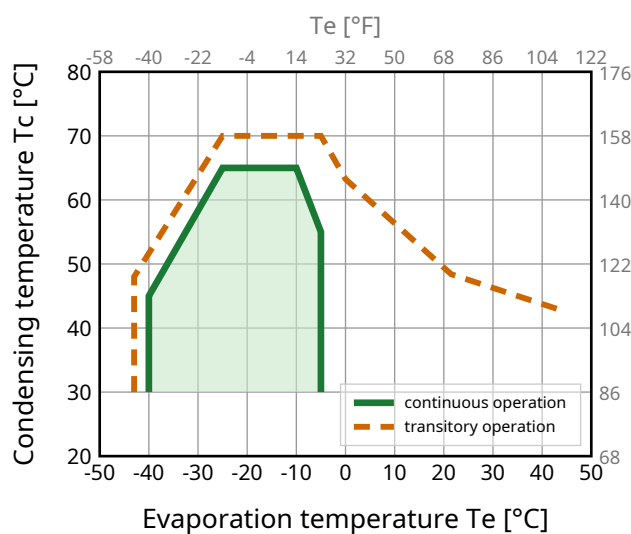
Alternative components

a2 potential relay (RVA 2AI3R A91) 117-7602

e run capacitor (10 μ F, 6.3mm) 117-7121

c start capacitor (80 μ F) 117U5373

Operation Pressure Range



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Standard Conditions

R290, 230 V/60 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	771	2631	663	1.64	5.60	470	2.02	7.83	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	553	1888	476	1.25	4.28	441	1.90	6.94	CECOMAF LBP
-35 -31	40 104	20 68	40 104	416	1419	358	1.22	4.15	342	1.49	4.77	EN12900 LBP
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	653	2228	561	1.37	4.68	476	2.06	9.06	ARI540 LBP
-23.3 -10	40.6 105.1	32.2 90	32.2 90	916	3125	788	1.94	6.63	471	2.02	9.30	AHAM LBP
-25 -13	45 113	32 89.6	45 113	712	2430	613	1.56	5.32	456	1.97	8.07	opt LBP

Performance Tables

R290, 230 V/60 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	194	662	167	0.80	2.71	244	1.14	2.18
-35	-31	350	1196	301	1.08	3.70	323	1.44	3.95
-30	-22	522	1781	449	1.33	4.53	393	1.71	5.90
-25	-13	712	2430	613	1.56	5.32	456	1.97	8.07
-20	-4	925	3155	795	1.80	6.15	513	2.20	10.52
-15	5	1163	3967	1000	2.06	7.02	565	2.43	13.28
-10	14	1430	4880	1230	2.33	7.96	613	2.64	16.42
-5	23	1730	5904	1488	2.63	8.96	659	2.84	19.98

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

-40	-40	34	116	29	0.23	0.78	148	0.77	0.42
-35	-31	196	669	169	0.76	2.60	257	1.18	2.44
-30	-22	368	1256	316	1.04	3.54	354	1.56	4.60
-25	-13	553	1888	476	1.25	4.28	441	1.90	6.94
-20	-4	756	2578	650	1.46	4.97	519	2.22	9.51
-15	5	978	3339	842	1.66	5.68	588	2.51	12.38
-10	14	1225	4181	1054	1.88	6.43	651	2.78	15.59
-5	23	1500	5118	1290	2.12	7.24	707	3.04	19.20