

Model

SCE18CNLX

Sales code:

104H8878

Compressor Data

Refrigerant(s)	R290
Refr. charge - tech. limit	450g / 15.87oz
Weight	14.20 kg / 31.31lbs
Displacement	17.69 cm3 / 1.08cu.in
Compressors on pallet	80



General – Configurations With SCE18CNLX

-	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

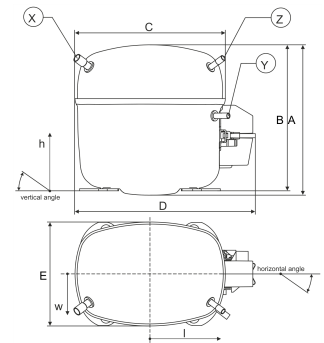
Oil type	POE	Winding resistance main	3.44 Ohm
Oil viscosity	32cSt	Winding resistance aux	9.4 Ohm
Oil quantity	550 / 18.60fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	1,460 cm³ / 49.37fl.oz	Max. discharge temp.	140°C / 284°F
Motor protection	external		

Compressor Dimensions

Housing

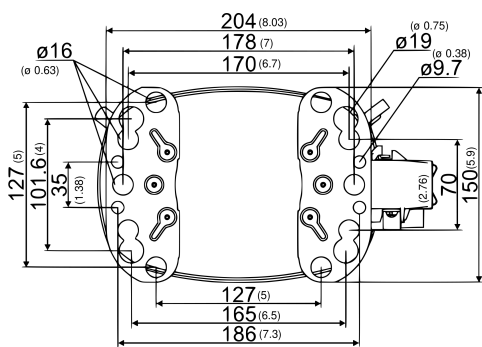
A Height	219mm / 8.62in
B Height	213mm / 8.39in
C Length shell	218mm / 8.58in
D Length w. cover	255mm / 10.04in
E Width	151mm / 5.94in

[Find 3D Model here](#)

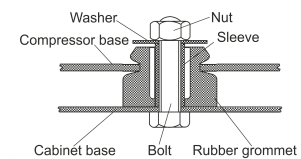


Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 9.54–9.72 / 0.38–0.38in	øi 6.41–6.59 / 0.25–0.26in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	143°
Vertical angle ±2°	30°	0°	150°
Position l/h/w [mm]	107/193/55 / 4.21/7.60/2.17in	115/110/63 / 4.53/4.33/2.48in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

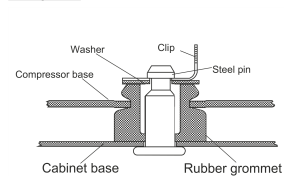
Mounting Accessories



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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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

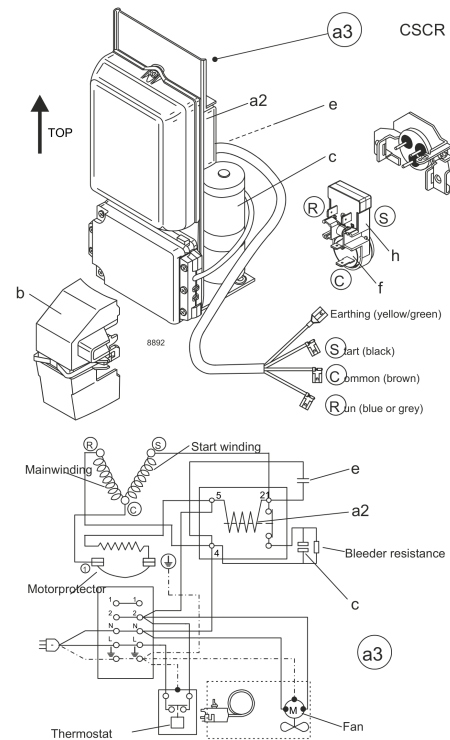
Ambient temperature range: 10 - 43°C / 50 - 109°F

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 motor protector T1120 117U3230

h protector holder 117U0080

b plastic cover + clamp 117U1021

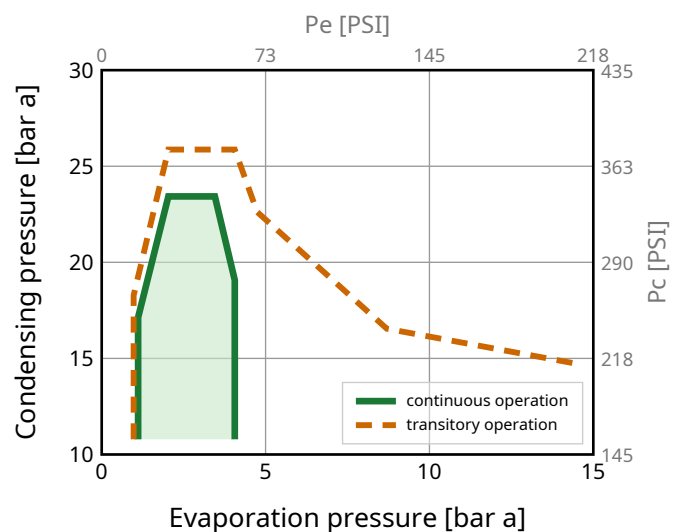
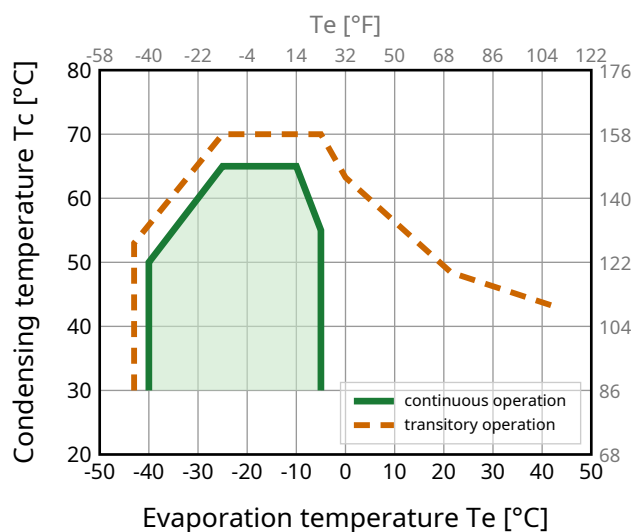
Alternative components

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	913	3116	785	1.68	5.73	544	2.41	9.28	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	655	2236	563	1.28	4.38	510	2.27	8.21	CECOMAF LBP
-35 -31	40 104	20 68	40 104	495	1688	426	1.28	4.36	387	1.61	5.68	EN12900 LBP
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	773	2639	665	1.40	4.77	553	2.41	10.74	ARI540 LBP
-23.3 -10	40.6 105.1	32.2 90	32.2 90	1085	3701	933	1.98	6.75	549	2.37	11.02	AHAM LBP
-35 -31	45 113	32 89.6	45 113	418	1426	359	1.15	3.91	364	1.53	4.71	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	236	806	203	0.90	3.05	264	1.07	2.65
-35	-31	418	1426	359	1.15	3.91	364	1.53	4.71
-30	-22	619	2112	532	1.37	4.67	453	1.93	6.99
-25	-13	844	2878	725	1.59	5.43	530	2.29	9.56
-20	-4	1095	3736	942	1.83	6.25	598	2.60	12.46
-15	5	1377	4700	1185	2.09	7.13	659	2.88	15.74
-10	14	1694	5781	1457	2.37	8.08	715	3.13	19.45
-5	23	2049	6992	1762	2.67	9.11	768	3.37	23.67

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

-40	-40	46	158	40	0.31	1.06	149	0.72	0.58
-35	-31	235	801	202	0.82	2.81	285	1.31	2.92
-30	-22	436	1489	375	1.08	3.68	405	1.82	5.45
-25	-13	655	2236	563	1.28	4.38	510	2.27	8.21
-20	-4	895	3053	769	1.49	5.07	602	2.67	11.26
-15	5	1159	3953	996	1.69	5.77	685	3.02	14.65
-10	14	1451	4951	1248	1.91	6.53	758	3.34	18.45
-5	23	1775	6057	1527	2.15	7.35	824	3.63	22.72