

Model
SCE21CNLX

Sales code:
104H7178

Compressor Data

Refrigerant(s)	R290
Refr. charge - tech. limit	500g / 17.64oz
Weight	14.20 kg / 31.31lbs
Displacement	20.95 cm3 / 1.28cu.in
Compressors on pallet	80



General – Configurations With SCE21CNLX

-	Conf. 1
Motor configuration	CSCR
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

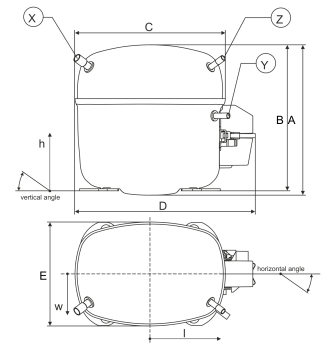
Oil type	POE	Winding resistance main	0.710 Ohm
Oil viscosity	32cSt	Winding resistance aux	2.95 Ohm
Oil quantity	550 / 18.60fl.oz	Max. winding temp.	135 °C
Free gas volume comp.	1,460 cm³ / 49.37fl.oz	Max. discharge temp.	140°C / 284°F
Motor protection	external		

Compressor Dimensions

Housing

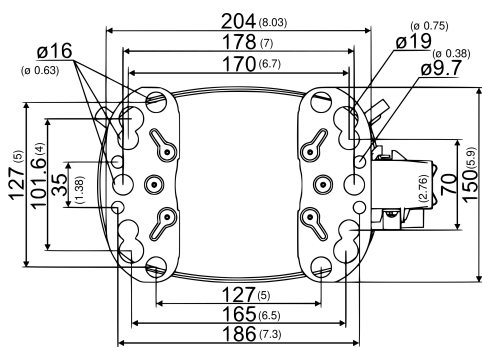
A Height	219mm / 8.62in
B Height	213mm / 8.39in
C Length shell	218mm / 8.58in
D Length w. cover	255mm / 10.04in
E Width	151mm / 5.94in

[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	CSCR
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	23.5 μF
Start capacitor	410 μF
LRA (locked rotor amps / 4s/ U(N))	55.2 A
RLA (rated load amps / 1s/ U(N))	8.67 A
Cut in current (U(N))	55.2 A

Ambient/ machine room temperatures minimum /maximum

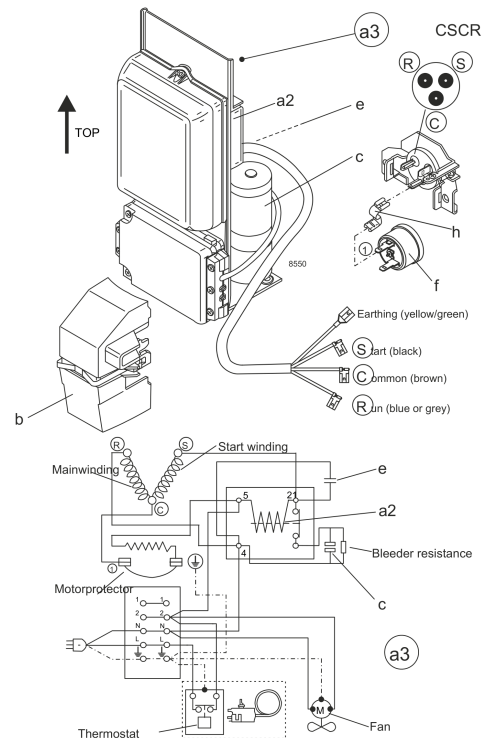
Ambient temperature range: 10 - 43°C / 50 - 109°F

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 (600mm) 117-7805

h protector holder 117U0439

f ext. protector (T1106) 117U3222

b plastic cover + clamp 117U1021

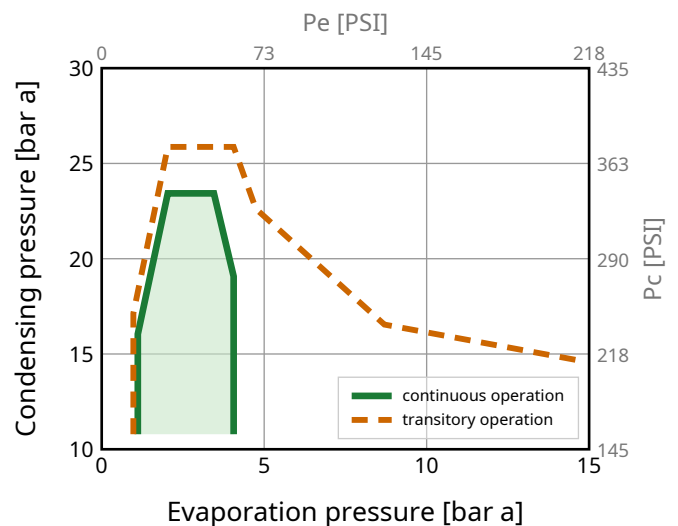
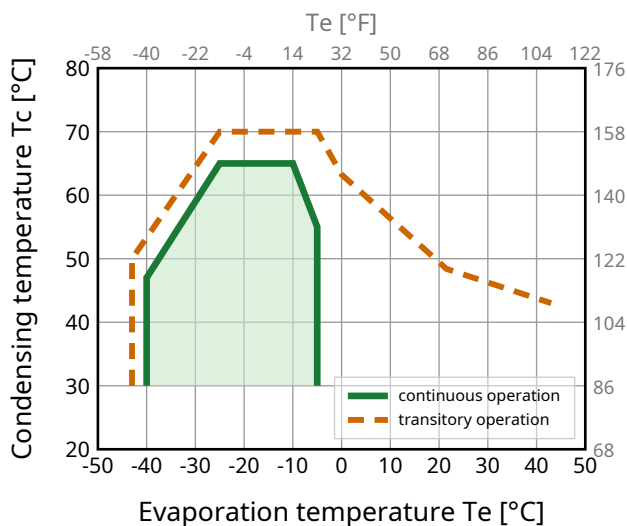
Alternative components

a2 potential relay (RVA 7AB3R A39) 117-7443

e run capacitor (23,5 μ F, 6.3mm) 117-7133

c start capacitor (410 μ F, 6.3mm) 117U5379

Operation Pressure Range



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Standard Conditions

R290, 115 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	1096	3739	942	1.61	5.50	680	6.97	11.13	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	800	2731	688	1.24	4.23	645	6.71	10.03	CECOMAF LBP
-35 -31	40 104	20 68	40 104	648	2212	558	1.28	4.38	506	5.68	7.44	EN12900 LBP
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	922	3146	793	1.35	4.62	681	6.97	12.80	ARI540 LBP
-23.3 -10	40.6 105.1	32.2 90	32.2 90	1227	4187	1055	1.89	6.43	651	6.75	12.46	AHAM LBP
-25 -13	45 113	32 89.6	45 113	1002	3418	861	1.55	5.28	647	6.73	11.35	opt LBP

Performance Tables

R290, 115 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	419	1431	361	0.96	3.28	437	4.88	4.71
-35	-31	597	2038	514	1.19	4.04	504	5.60	6.73
-30	-22	788	2690	678	1.37	4.67	575	6.20	8.91
-25	-13	1002	3418	861	1.55	5.28	647	6.73	11.35
-20	-4	1246	4253	1072	1.74	5.93	717	7.23	14.18
-15	5	1531	5225	1317	1.96	6.68	782	7.75	17.50
-10	14	1866	6366	1605	2.23	7.59	838	8.34	21.42
-5	23	2258	7706	1942	2.56	8.72	884	9.03	26.08

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

-40	-40	166	566	143	0.47	1.60	354	4.01	2.06
-35	-31	372	1271	320	0.83	2.85	446	5.04	4.64
-30	-22	581	1982	500	1.07	3.64	544	5.93	7.26
-25	-13	800	2731	688	1.24	4.23	645	6.71	10.03
-20	-4	1040	3547	894	1.40	4.76	745	7.44	13.09
-15	5	1308	4463	1125	1.55	5.31	841	8.16	16.54
-10	14	1614	5507	1388	1.73	5.92	931	8.92	20.53
-5	23	1967	6712	1692	1.95	6.64	1011	9.76	25.18