

Model
SCE21CNLX

Sales code:
104H8173

Compressor Data

Refrigerant(s)	R290
Refr. charge - tech. limit	550g / 19.40oz
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)	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

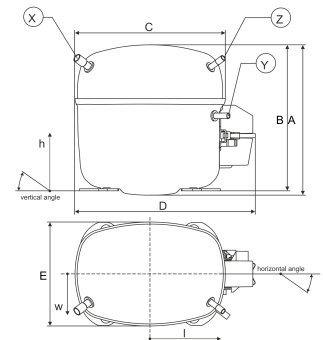
Oil type	POE	Winding resistance main	2.760 Ohm
Oil viscosity	32cSt	Winding resistance aux	11.08 Ohm
Oil quantity	550 / 18.60fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	1,460 cm³ / 49.37fl.oz	Max. discharge temp.	140°C / 284°F
Motor protection	external		

Compressor Dimensions

Housing

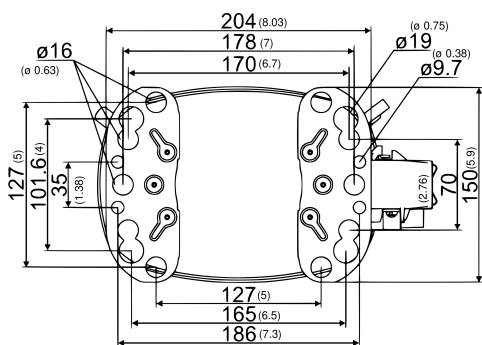
A Height	219mm / 8.62in
B Height	213mm / 8.39in
C Length shell	218mm / 8.58in
D Length w. cover	255mm / 10.04in
E Width	151mm / 5.94in

[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

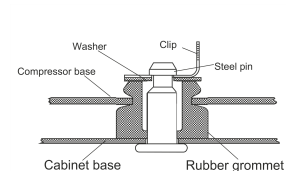
Mounting Accessories



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 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))	24.57 A
RLA (rated load amps / 1s/ U(N))	4.92 A
Cut in current (U(N))	24.57 A

Ambient/ machine room temperatures minimum /maximum

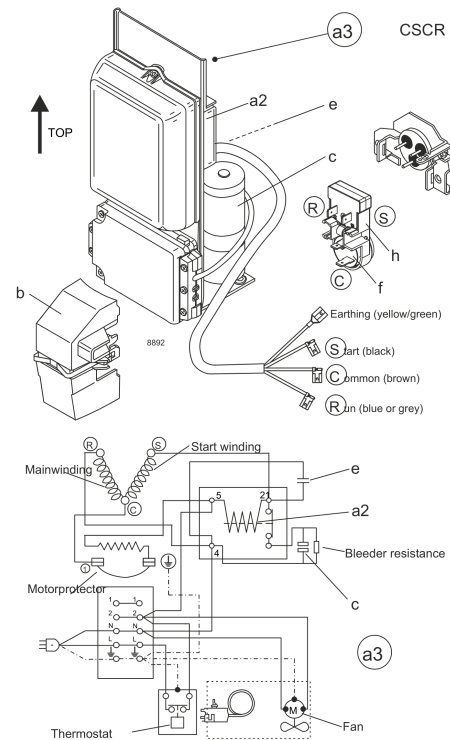
Ambient temperature range: 10 - 43°C / 50 - 109°F

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) 117-7811

f / h motor protector assy. (T1118) 117U8006

b plastic cover + clamp 117U1021

Alternative components

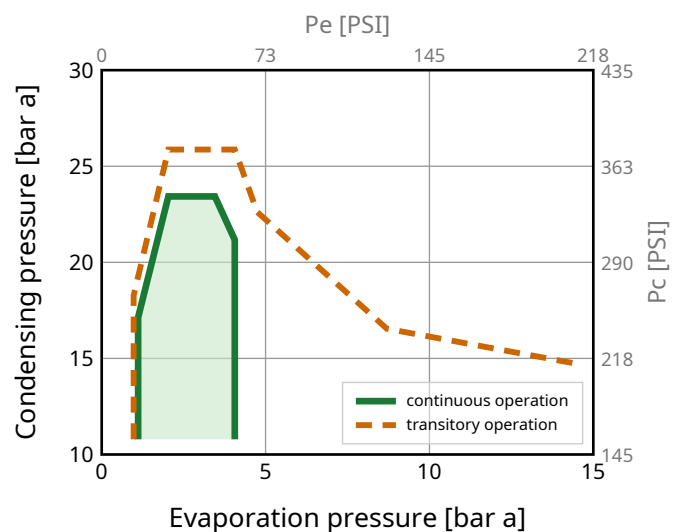
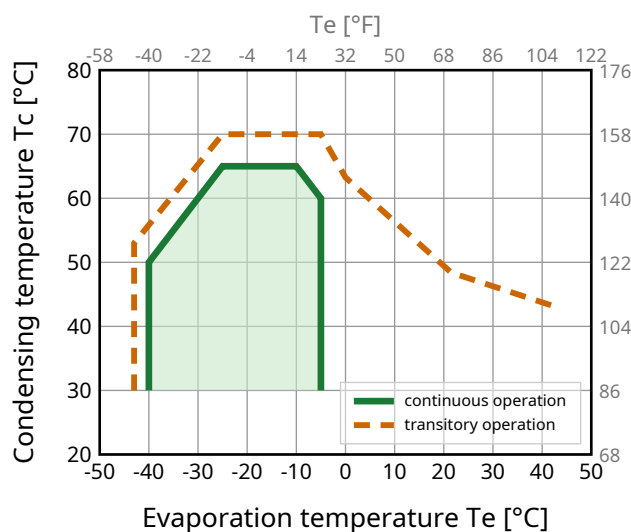
a3 SC starter kit (1000mm) 117-7814

a2 potential relay (RVA2AL3R A92) 117-7603

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	1106	3773	951	1.65	5.64	668	3.04	11.23	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	810	2765	697	1.28	4.36	634	2.90	10.16	CECOMAF LBP
-35 -31	40 104	20 68	40 104	602	2055	518	1.25	4.26	482	2.33	6.91	EN12900 LBP
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	918	3133	790	1.37	4.67	671	3.08	12.75	ARI540 LBP
-23.3 -10	40.6 105.1	32.2 90	32.2 90	1236	4219	1063	1.88	6.41	658	3.02	12.56	AHAM LBP
-25 -13	45 113	32 89.6	45 113	988	3371	850	1.54	5.27	640	2.96	11.20	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	395	1347	340	1.00	3.41	395	2.06	4.44
-35	-31	560	1910	482	1.18	4.02	476	2.34	6.31
-30	-22	756	2581	651	1.36	4.63	558	2.64	8.55
-25	-13	988	3371	850	1.54	5.27	640	2.96	11.20
-20	-4	1258	4292	1082	1.75	5.97	719	3.28	14.31
-15	5	1570	5356	1350	1.98	6.76	792	3.60	17.93
-10	14	1927	6575	1657	2.25	7.66	858	3.88	22.13
-5	23	2333	7961	2007	2.55	8.70	915	4.13	26.95

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

-40	-40	266	906	228	0.76	2.60	348	1.84	3.30
-35	-31	421	1436	362	0.96	3.27	440	2.15	5.24
-30	-22	601	2052	517	1.12	3.83	536	2.51	7.51
-25	-13	810	2765	697	1.28	4.36	634	2.90	10.16
-20	-4	1051	3587	904	1.44	4.90	732	3.31	13.23
-15	5	1328	4531	1142	1.60	5.47	829	3.72	16.80
-10	14	1644	5609	1414	1.79	6.09	921	4.13	20.91
-5	23	2002	6832	1722	1.99	6.79	1006	4.52	25.63