

Model
SCE21CNLX

Sales code:
104H8163

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)	220-240 V/50 Hz
Number of phases	1
Voltage range	198-254 V
Approvals	VDE, CCC, EAC
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

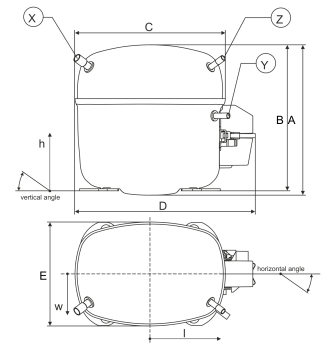
Oil type	POE	Winding resistance main	4.090 Ohm
Oil viscosity	32cSt	Winding resistance aux	13.46 Ohm
Oil quantity	550 / 18.60fl.oz	Max. winding temp.	135 °C
Free gas volume comp.	1,460 cm³ / 49.37fl.oz	Max. discharge temp.	140°C / 284°F
Motor protection	external		

Compressor Dimensions

Housing

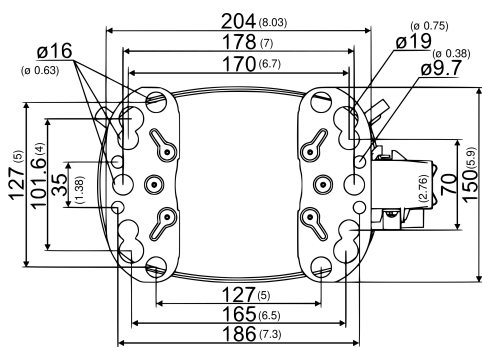
A Height	219mm / 8.62in
B Height	213mm / 8.39in
C Length shell	218mm / 8.58in
D Length w. cover	255mm / 10.04in
E Width	151mm / 5.94in

[Find 3D Model here](#)



Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 10.11–10.29 / 0.40–0.41in	øi 6.11–6.29 / 0.24–0.25in	øi 6.11–6.29 / 0.24–0.25in
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

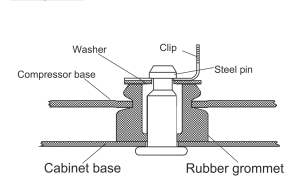
Mounting Accessories



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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Power supply (nominal)	220-240 V/50 Hz 1~
Refrigerant	R290
Application	LBP
Voltage range	198-254 V
Starting torque	HST
Approvals	VDE, CCC, EAC
Starting device type	relay
Run capacitor	10 μ F
Start capacitor	80 μ F
LRA (locked rotor amps / 4s/ U(N))	18.29 A
RLA (rated load amps / 1s/ U(N))	2.95 A
Cut in current (U(N))	18.29 A

Ambient/ machine room temperatures minimum /maximum

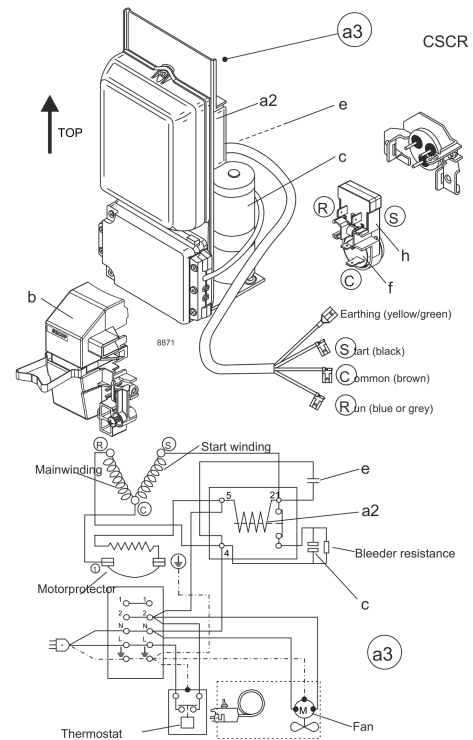
Ambient temperature range: 10 - 43°C / 50 - 109°F

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) 117-7806

f / h motor protector assy. (T1102) 117U8001

b plastic cover + clamp 117U1028

Alternative components

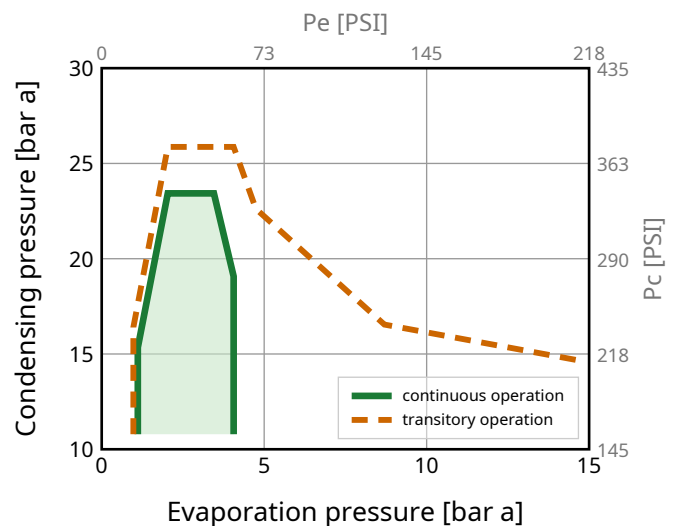
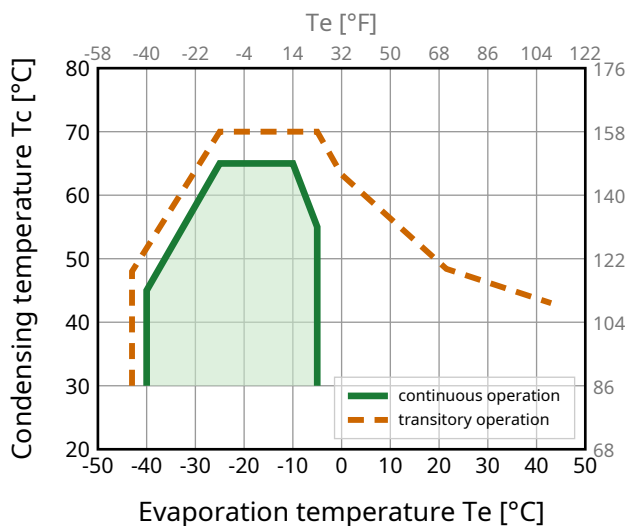
a3 SC starter kit (1000mm) 117-7813

a2 potential relay (RVA 4I3R A57) 117-7600

e run capacitor (10 μ F, 6.3mm) 117-7112

c start capacitor (80 μ F) 117U5373

Operation Pressure Range



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Standard Conditions

R290, 220 V/50 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	959	3273	825	1.61	5.51	594	2.81	9.74	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	710	2424	611	1.25	4.25	570	2.70	8.91	CECOMAF LBP
-35 -31	40 104	20 68	40 104	543	1854	467	1.29	4.40	421	2.03	6.24	EN12900 LBP
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	796	2716	684	1.38	4.71	576	2.74	11.05	ARI540 LBP
-23.3 -10	40.6 105.1	32.2 90	32.2 90	1078	3680	928	1.99	6.80	541	2.57	10.96	AHAM LBP
-25 -13	45 113	32 89.6	45 113	866	2956	745	1.60	5.46	541	2.58	9.82	opt LBP

Performance Tables

R290, 220 V/50 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	367	1253	316	0.96	3.27	383	1.92	4.13
-35	-31	508	1733	437	1.18	4.02	431	2.10	5.72
-30	-22	674	2299	580	1.39	4.75	484	2.33	7.62
-25	-13	866	2956	745	1.60	5.46	541	2.58	9.82
-20	-4	1086	3707	934	1.81	6.19	599	2.85	12.36
-15	5	1336	4557	1149	2.04	6.96	655	3.11	15.26
-10	14	1615	5510	1389	2.28	7.79	707	3.34	18.54
-5	23	1925	6569	1656	2.56	8.73	752	3.54	22.24

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

-40	-40	312	1063	268	0.82	2.81	379	1.88	3.87
-35	-31	416	1419	358	0.96	3.27	434	2.10	5.18
-30	-22	548	1871	472	1.10	3.75	499	2.38	6.85
-25	-13	710	2424	611	1.25	4.25	570	2.70	8.91
-20	-4	904	3083	777	1.40	4.78	646	3.05	11.37
-15	5	1128	3850	971	1.56	5.33	723	3.40	14.27
-10	14	1387	4732	1193	1.74	5.92	799	3.76	17.64
-5	23	1680	5731	1444	1.93	6.57	872	4.09	21.50