

Model
SCE21CNLX

Sales code:
104H8164

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	CSIR
Power supply (nominal)	220-230 V/50 Hz
Number of phases	1
Voltage range	207-242 V
Approvals	VDE, CCC, EAC
Starting torque	HST
Refrigerant	R290
Application	LBP
Hot gas defrost	OK

Application Notes

- Protector, relay 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

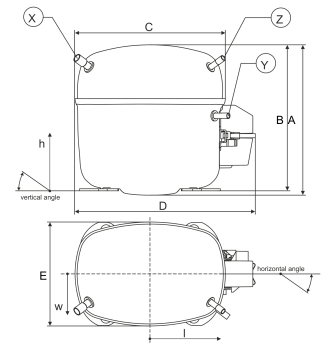
Oil type	POE	Winding resistance main	3.570 Ohm
Oil viscosity	32cSt	Winding resistance aux	18.60 Ohm
Oil quantity	550 / 18.60fl.oz	Max. winding temp.	135 °C
Free gas volume comp.	1,460 cm³ / 49.37fl.oz	Max. discharge temp.	140°C / 284°F
Motor protection	external		

Compressor Dimensions

Housing

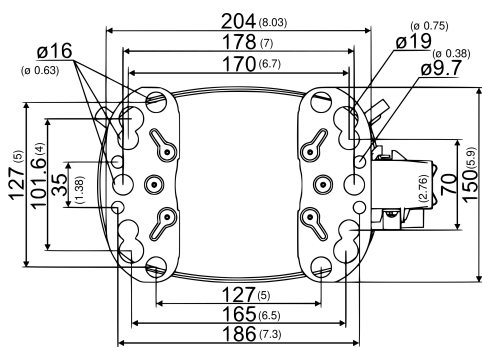
A Height	219mm / 8.62in
B Height	213mm / 8.39in
C Length shell	218mm / 8.58in
D Length w. cover	255mm / 10.04in
E Width	151mm / 5.94in

[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

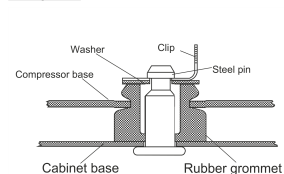
Mounting Accessories



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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Configuration

Motor configuration	CSIR
Power supply (nominal)	220-230 V/50 Hz 1~
Refrigerant	R290
Application	LBP
Voltage range	207-242 V
Starting torque	HST
Approvals	VDE, CCC, EAC
Starting device type	relay
Run capacitor	-/-
Start capacitor	80 µF
LRA (locked rotor amps / 4s/ U(N))	19.67 A
RLA (rated load amps / 1s/ U(N))	3.76 A
Cut in current (U(N))	19.67 A

Ambient/ machine room temperatures minimum /maximum

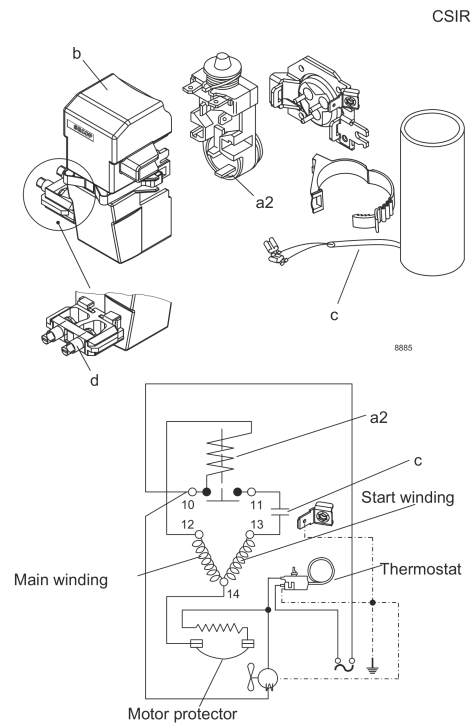
Ambient temperature range: 10 - 38°C / 50 - 100°F

Machine room temp. compressor: 10 - 43°C / 50 - 109°F

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



[View full size](#)

Components (relay + cover: pre-assembled)

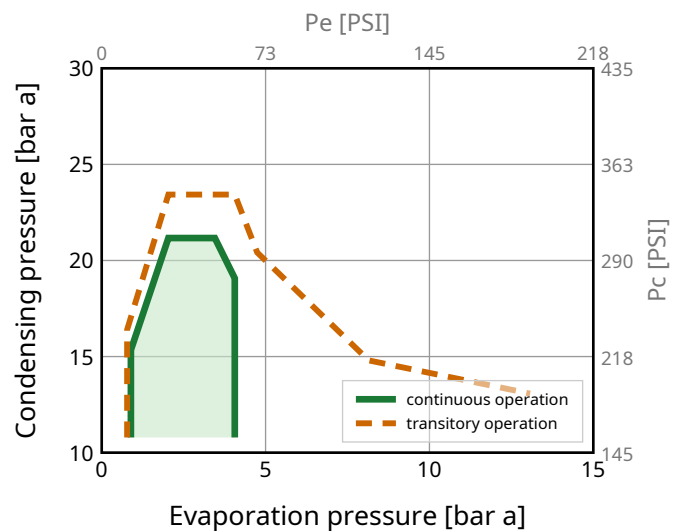
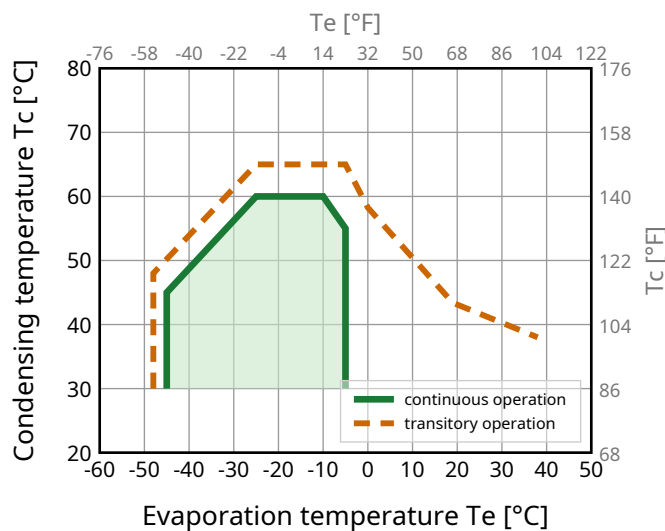
a2 assy. relay + ext. protector (T1102) 117U7400

c start capacitor (80µF) 117U5017

d cord relief 103N1004

b plastic cover + clamp 117U1033

Operation Pressure Range



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Standard Conditions

R290, 220 V/50 Hz, CSIR, 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	943	3216	811	1.50	5.10	630	3.70	9.57	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	697	2377	599	1.16	3.95	601	3.59	8.73	CECOMAF LBP
-35 -31	40 104	20 68	40 104	546	1862	469	1.22	4.15	449	2.88	6.26	EN12900 LBP
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	788	2690	678	1.28	4.37	615	3.61	10.95	ARI540 LBP
-23.3 -10	40.6 105.1	32.2 90	32.2 90	1077	3675	926	1.84	6.29	584	3.36	10.94	AHAM LBP
-25 -13	45 113	32 89.6	45 113	862	2943	742	1.49	5.08	579	3.40	9.78	opt LBP

Performance Tables

R290, 220 V/50 Hz, CSIR, 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]
-45	-49	256	873	220	0.71	2.43	359	2.67	2.87
-40	-40	368	1256	317	0.92	3.15	399	2.78	4.14
-30	-22	671	2289	577	1.31	4.46	513	3.15	7.58
-20	-4	1082	3693	931	1.67	5.70	647	3.66	12.31
-10	14	1609	5491	1384	2.08	7.09	774	4.16	18.48
-5	23	1918	6545	1650	2.32	7.92	826	4.38	22.16

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

-45	-49	227	774	195	0.71	2.43	319	2.68	2.81
-40	-40	300	1025	258	0.81	2.77	370	2.81	3.73
-30	-22	535	1824	460	1.04	3.55	515	3.28	6.68
-20	-4	890	3036	765	1.28	4.38	692	3.92	11.20
-10	14	1372	4683	1180	1.57	5.35	876	4.63	17.45
-5	23	1664	5677	1431	1.73	5.91	961	4.96	21.30