

Model
SCE21LNDX

Sales code:
104H6163

Compressor Data

Refrigerant(s)	R290
Refr. charge - tech. limit	500g / 17.64oz
Weight	13.70 kg / 30.20lbs
Displacement	20.95 cm3 / 1.28cu.in
Compressors on pallet	64



General – Configurations With SCE21LNDX

-	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
Starting torque	HST
Refrigerant	R290
Application	LBP
Hot gas defrost	OK

Application Notes

- Starter kit(relay), cover and cord relief are included and pre-assembled.
- Provision for PE Grounding is located at the PE Stamp on the compressor

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Compressor Design

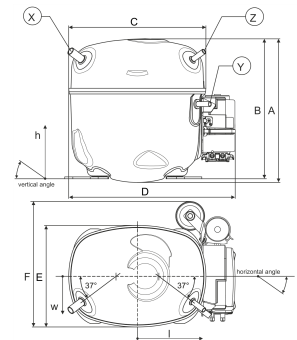
Oil type	POE	Winding resistance main	5 Ohm
Oil viscosity	32cSt	Winding resistance aux	14.7 Ohm
Oil quantity	429 / 14.51fl.oz	Max. winding temp.	135 °C
Free gas volume comp.	1,330 cm³ / 44.97fl.oz	Max. discharge temp.	140°C / 284°F
Motor protection	internal		

Compressor Dimensions

Housing

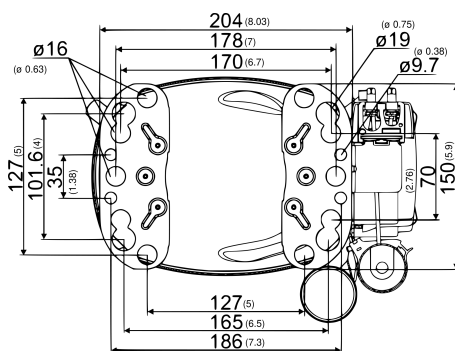
A Height	228mm / 8.98in
B Height	222mm / 8.74in
C Length shell	217mm / 8.54in
D Length w. cover	263.4mm / 10.37in
E Width	161.1mm / 6.34in

[Find 3D Model here](#)



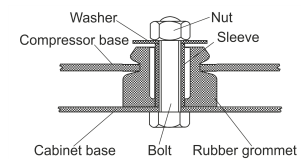
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 10.11–10.29 / 0.40–0.41in	øi 6.11–6.29 / 0.24–0.25in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	37°
Vertical angle ±2°	36°	0°	36°
Position l/h/w [mm]	-104/202/54 / -4.09/7.95/2.13in	114/118/63 / 4.49/4.65/2.48in	106/202/53 / 4.17/7.95/2.09in
Straight tube l. [mm]	12 / 0.47in	12 / 0.47in	12 / 0.47in

Mounting Accessories

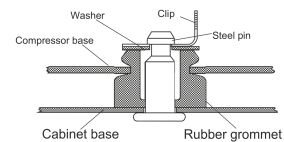


Dimensions in mm [in]

Bolt joint



Snap-on



	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)	220-240 V/50 Hz 1~
Refrigerant	R290
Application	LBP
Voltage range	198-254 V
Starting torque	HST
Approvals	VDE, CCC
Starting device type	relay
Run capacitor	10 μ F
Start capacitor	100 μ F
RLA (rated load amps / 1s/ U(N))	2.5 A

Ambient/ machine room temperatures minimum /maximum

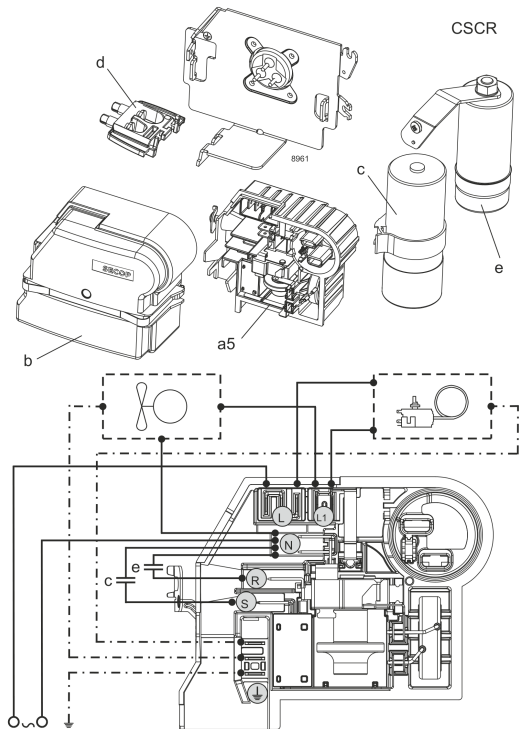
Ambient temperature range: 10 - 43°C / 50 - 109°F

Machine room temp. compressor: 10 - 48°C / 50 - 118°F

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



[View full size](#)

Components

a5 SC starter kit 117U8101

b cover terminal board + clamp 117U1036

c start capacitor (100 μ F) 117U5354

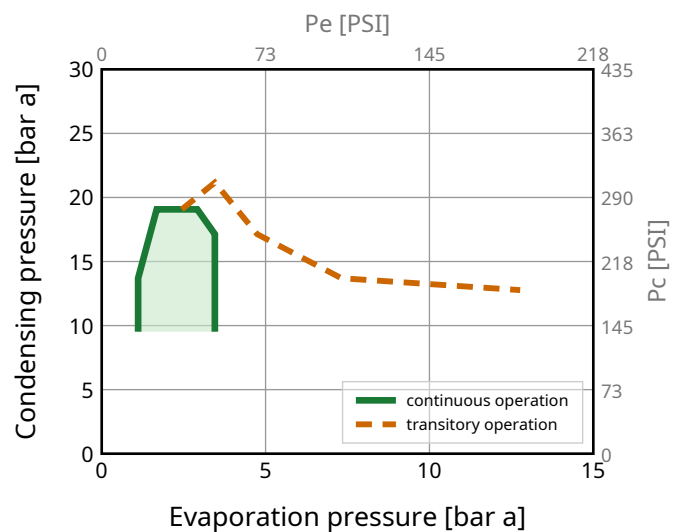
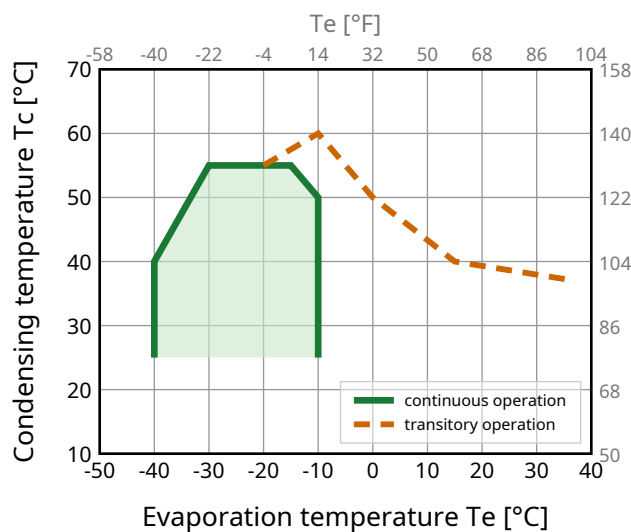
e run cap (10 μ F, 6.3mm,c.length 280mm) 117-7166

e1 retaining clamp 117-0313

screw M4x8mm 117-0301

d cord relief 103N1007

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]	[°C]	[°C]	[°C]		[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]	
[°F]	[°F]	[°F]	[°F]										
-23.3	54.4	32.2	32.2		1012	3453	870	1.61	5.48	630	3.08	10.28	ASHRAE LBP
-10	129.9	90	90										
-25	55	32	55		751	2564	646	1.25	4.27	601	2.94	9.42	CECOMAF LBP
-13	131	89.6	131										
-35	40	20	40		560	1910	482	1.31	4.48	426	2.17	6.42	EN12900 LBP
-31	104	68	104										
-23.3	48.8	4.4	48.8		825	2816	710	1.35	4.60	612	2.99	11.46	ARI540 LBP
-10	119.8	39.9	119.8										
-23.3	40.6	32.2	32.2		1098	3748	945	1.90	6.47	579	2.84	11.16	AHAM LBP
-10	105.1	90	90										
-35	45	32	45		527	1797	453	1.22	4.17	431	2.19	5.94	opt LBP
-31	113	89.6	113										

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	381	1299	327	1.04	3.55	366	1.93	4.28
-35	-31	527	1797	453	1.22	4.17	431	2.19	5.94
-30	-22	696	2374	598	1.39	4.75	500	2.49	7.86
-25	-13	889	3034	765	1.55	5.30	572	2.81	10.08
-20	-4	1109	3784	954	1.72	5.85	647	3.15	12.62
-15	5	1356	4628	1166	1.88	6.41	722	3.51	15.50
-10	14	1633	5572	1405	2.04	6.98	799	3.88	18.75

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

-40	-40	288	983	248	0.80	2.73	360	1.91	3.58
-35	-31	423	1442	364	0.97	3.33	434	2.20	5.26
-30	-22	577	1967	496	1.12	3.82	514	2.55	7.20
-25	-13	751	2564	646	1.25	4.27	601	2.94	9.42
-20	-4	949	3237	816	1.37	4.67	693	3.37	11.94
-15	5	1170	3993	1007	1.48	5.06	789	3.83	14.80
-10	14	1418	4838	1219	1.59	5.44	890	4.32	18.03