

Model
SCE23LNDX

Sales code:
104H8320

Compressor Data

Refrigerant(s)	R290
Refr. charge - tech. limit	500g / 17.64oz
Weight	14.90 kg / 32.85lbs
Displacement	23.00 cm3 / 1.40cu.in
Compressors on pallet	48



General – Configurations With SCE23LNDX

-	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, CB
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

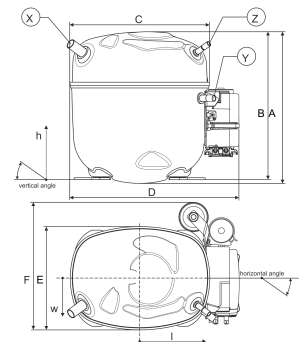
Oil type	POE	Winding resistance main	3.290 Ohm
Oil viscosity	32cSt	Winding resistance aux	10.82 Ohm
Oil quantity	500 / 16.91fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	3,150 cm³ / 106.51fl.oz	Max. discharge temp.	140°C / 284°F
Motor protection	internal		

Compressor Dimensions

Housing

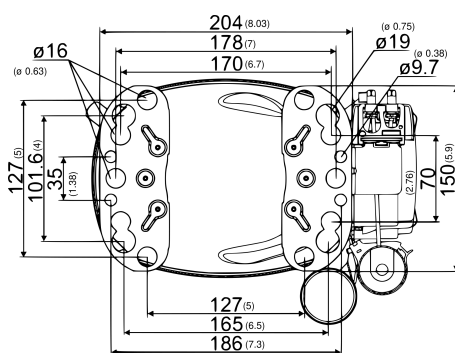
A Height	236.4mm / 9.31in
B Height	230.6mm / 9.08in
C Length shell	217mm / 8.54in
D Length w. cover	263.4mm / 10.37in
E Width	161.1mm / 6.34in

[Find 3D Model here](#)



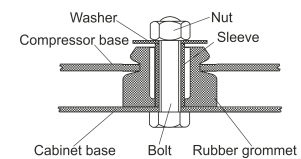
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 12.81–12.99 / 0.50–0.51in	øi 8.11–8.29 / 0.32–0.33in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	37°
Vertical angle ±2°	36°	0°	36°
Position l/h/w [mm]	-110.5/211.8/56.7 / -4.35/8.34/2.23in	115.5/127/81 / 4.55/5.00/3.19in	109.5/94.3/72 / 4.31/3.71/2.83in
Straight tube l. [mm]	12 / 0.47in	12 / 0.47in	12 / 0.47in

Mounting Accessories

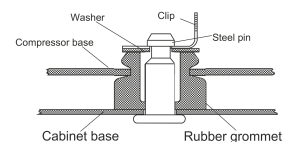


Dimensions in mm [in]

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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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, CB
Starting device type	relay
Run capacitor	10 μ F
Start capacitor	60 μ F
LRA (locked rotor amps / 4s/ U(N))	22.1 A
RLA (rated load amps / 1s/ U(N))	3.7 A
Cut in current (U(N))	22.1 A

Ambient/ machine room temperatures minimum /maximum

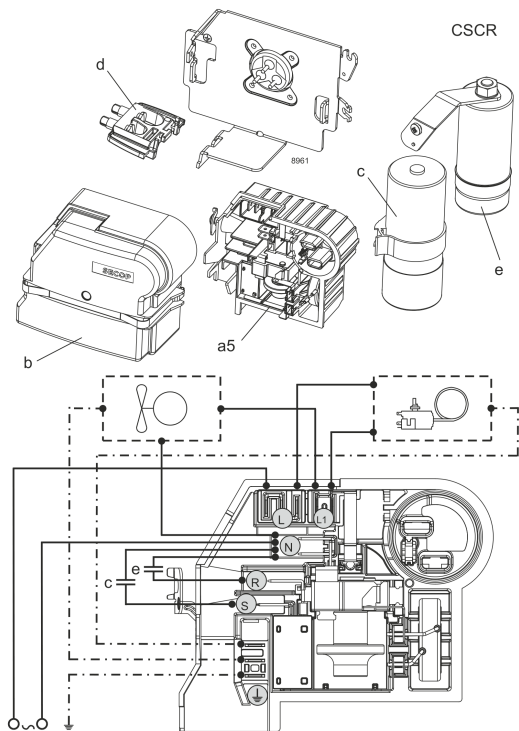
Ambient temperature range: 10 - 43°C / 50 - 109°F

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 (60 μ F) 117U5351

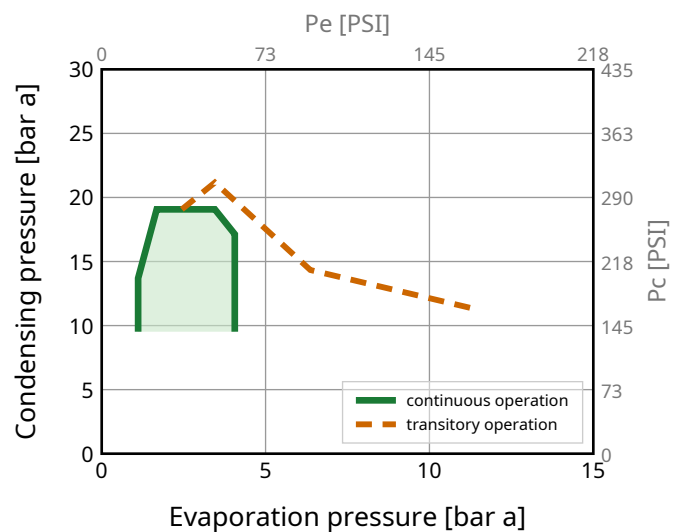
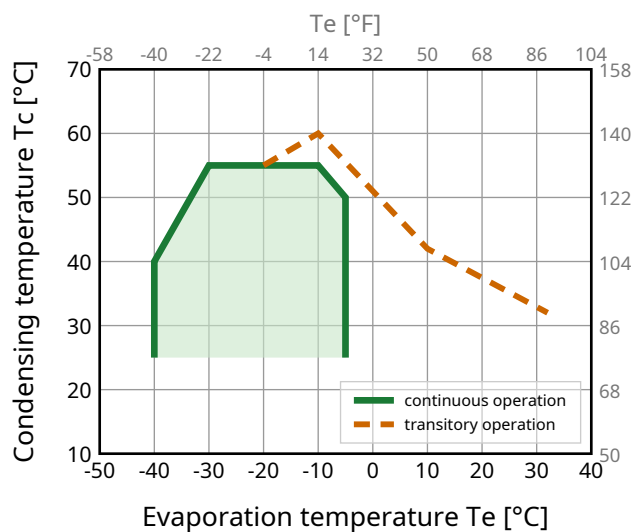
e run cap (10 μ F, 6.3mm,c.length 280mm) 117-7166

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] [°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	1044	3563	898	1.58	5.39	661	3.27	10.61	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	773	2636	665	1.22	4.16	634	3.16	9.69	CECOMAF LBP
-35 -31	40 104	20 68	40 104	615	2100	529	1.29	4.41	476	2.50	7.06	EN12900 LBP
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	878	2995	755	1.36	4.65	644	3.20	12.19	ARI540 LBP
-23.3 -10	40.6 105.1	32.2 90	32.2 90	1207	4119	1038	1.97	6.71	614	3.07	12.26	AHAM LBP
-25 -13	45 113	32 89.6	45 113	964	3289	829	1.58	5.40	608	3.04	10.93	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	441	1506	380	1.01	3.44	438	2.36	4.96
-35	-31	580	1980	499	1.19	4.06	487	2.55	6.54
-30	-22	755	2575	649	1.38	4.72	545	2.78	8.53
-25	-13	964	3289	829	1.58	5.40	608	3.04	10.93
-20	-4	1207	4119	1038	1.79	6.11	674	3.33	13.73
-15	5	1483	5061	1276	2.01	6.85	738	3.60	16.95
-10	14	1792	6114	1541	2.25	7.66	798	3.87	20.58
-5	23	2132	7274	1833	2.51	8.56	850	4.10	24.62

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

-40	-40	378	1288	325	0.86	2.93	440	2.36	4.69
-35	-31	469	1601	404	0.96	3.26	491	2.56	5.84
-30	-22	601	2051	517	1.08	3.68	557	2.83	7.51
-25	-13	773	2636	665	1.22	4.16	634	3.16	9.69
-20	-4	983	3354	845	1.37	4.66	719	3.53	12.37
-15	5	1231	4200	1059	1.52	5.20	808	3.93	15.57
-10	14	1516	5173	1304	1.69	5.75	899	4.33	19.28
-5	23	1837	6268	1580	1.86	6.35	988	4.74	23.51