

Model
SCE25LNIX

Sales code:
104H8440

Compressor Data

Refrigerant(s)	R290
Refr. charge - tech. limit	500g / 17.64oz
Weight	14.90 kg / 32.85lbs
Displacement	25.00 cm3 / 1.53cu.in
Compressors on pallet	48



General – Configurations With SCE25LNIX

-	Conf. 1
Motor configuration	CSCR
Power supply (nominal)	220-240 V/60 Hz
Number of phases	1
Voltage range	195-254 V
Approvals	UL, KC, CB
Starting torque	HST
Refrigerant	R290
Application	LBP
Hot gas defrost	OK
Long interval pull down	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

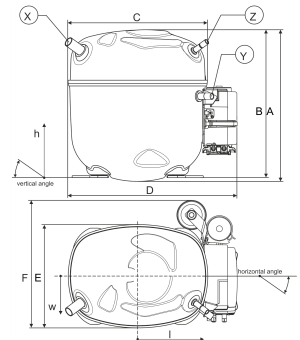
Oil type	POE	Winding resistance main	2.350 Ohm
Oil viscosity	32cSt	Winding resistance aux	8.89 Ohm
Oil quantity	500 / 16.91fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	3,150 cm ³ / 106.51fl.oz	Max. discharge temp.	140°C / 284°F
Motor protection	internal		

Compressor Dimensions

Housing

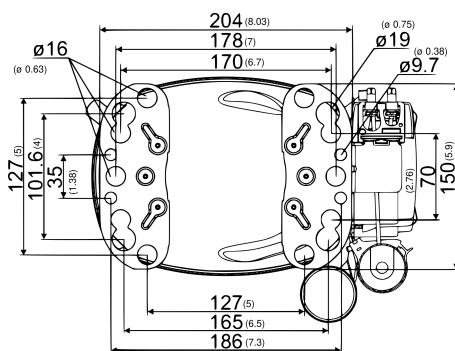
A Height	236.4mm / 9.31in
B Height	230.6mm / 9.08in
C Length shell	217mm / 8.54in
D Length w. cover	263.4mm / 10.37in
E Width	161.1mm / 6.34in

[Find 3D Model here](#)



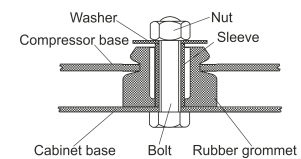
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 12.81–12.99 / 0.50–0.51in	øi 8.11–8.29 / 0.32–0.33in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	37°
Vertical angle ±2°	36°	0°	36°
Position l/h/w [mm]	-110.5/211.8/56.7 / -4.35/8.34/2.23in	115.5/127/81 / 4.55/5.00/3.19in	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

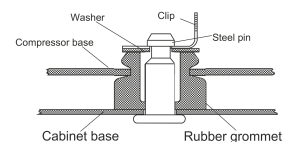


Dimensions in mm [in]

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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Configuration

Motor configuration	CSCR
Power supply (nominal)	220-240 V/60 Hz 1~
Refrigerant	R290
Application	LBP
Voltage range	195-254 V
Starting torque	HST
Approvals	UL, KC, CB
Starting device type	relay
Run capacitor	15 μF
Start capacitor	80 μF
LRA (locked rotor amps / 4s/ U(N))	30.2 A
RLA (rated load amps / 1s/ U(N))	3.5 A

Ambient/ machine room temperatures minimum /maximum

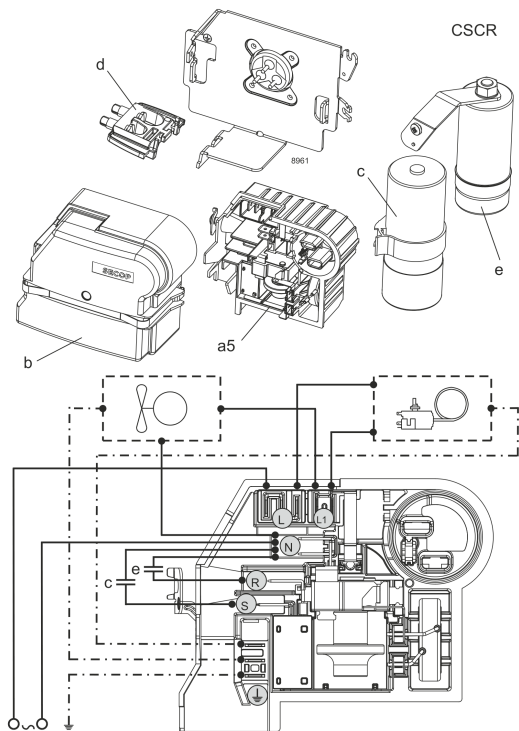
Ambient temperature range: 10 - 43°C / 50 - 109°F

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 117U8102

b cover terminal board + clamp 117U1036

c start capacitor (80 μ F) 117U5352

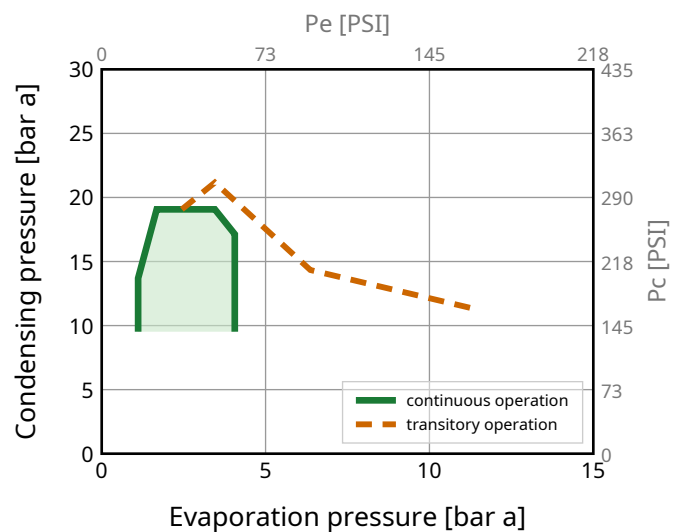
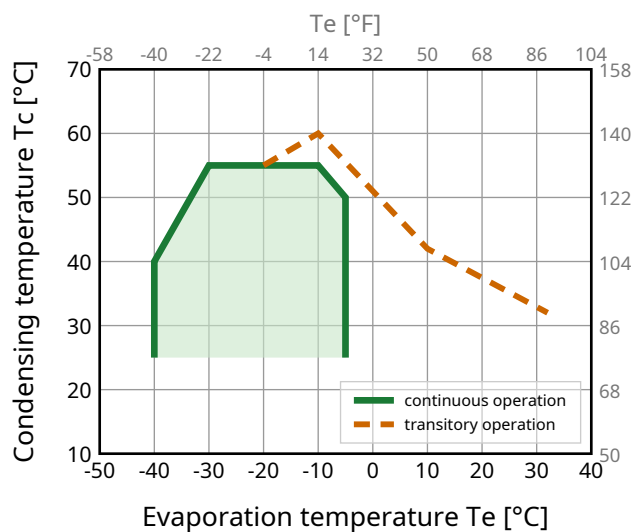
e run capacitor (15 μ F, 6.3mm) 117-7167

e1 retaining clamp 117-0313

screw M4x8mm 117-0301

d cord relief 103N1007

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	1336	4558	1149	1.58	5.38	848	3.88	13.57	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	988	3370	849	1.22	4.17	808	3.69	12.38	CECOMAF LBP
-35 -31	40 104	20 68	40 104	772	2632	663	1.29	4.39	600	2.75	8.85	EN12900 LBP
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	1118	3814	961	1.35	4.61	827	3.79	15.52	ARI540 LBP
-23.3 -10	40.6 105.1	32.2 90	32.2 90	1517	5176	1305	1.95	6.66	777	3.55	15.41	AHAM LBP
-25 -13	45 113	32 89.6	45 113	1222	4169	1051	1.57	5.37	777	3.55	13.85	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	513	1751	441	0.96	3.28	533	2.45	5.77
-35	-31	718	2450	617	1.18	4.02	609	2.79	8.09
-30	-22	954	3253	820	1.38	4.71	691	3.16	10.77
-25	-13	1222	4169	1051	1.57	5.37	777	3.55	13.85
-20	-4	1525	5204	1312	1.77	6.03	862	3.95	17.35
-15	5	1866	6367	1605	1.97	6.74	945	4.33	21.32
-10	14	2247	7666	1932	2.20	7.50	1022	4.68	25.80
-5	23	2669	9107	2295	2.45	8.35	1090	5.00	30.83

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

-40	-40	389	1327	335	0.80	2.74	484	2.23	4.83
-35	-31	556	1897	478	0.96	3.26	582	2.66	6.92
-30	-22	755	2575	649	1.09	3.73	690	3.16	9.43
-25	-13	988	3370	849	1.22	4.17	808	3.69	12.38
-20	-4	1257	4289	1081	1.35	4.61	930	4.26	15.82
-15	5	1565	5339	1346	1.48	5.06	1054	4.83	19.79
-10	14	1914	6530	1646	1.62	5.54	1178	5.41	24.34
-5	23	2306	7868	1983	1.78	6.07	1297	5.97	29.52