

Model
SCE23LNIX

Sales code:
104H8350

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 SCE23LNIX

-	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

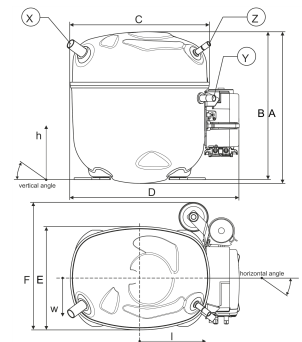
Oil type	POE	Winding resistance main	2.8 Ohm
Oil viscosity	32cSt	Winding resistance aux	10.9 Ohm
Oil quantity	500 / 16.91fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	3,150 cm³ / 106.51fl.oz	Max. discharge temp.	140°C / 284°F
Motor protection	internal		

Compressor Dimensions

Housing

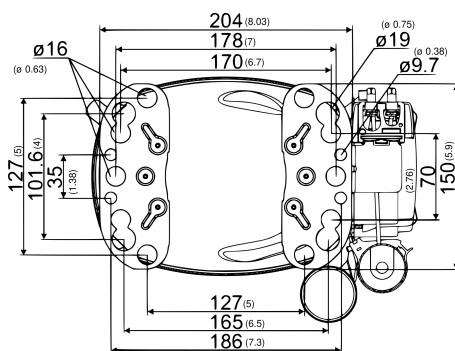
A Height	236.4mm / 9.31in
B Height	230.6mm / 9.08in
C Length shell	217mm / 8.54in
D Length w. cover	263.4mm / 10.37in
E Width	161.1mm / 6.34in

[Find 3D Model here](#)



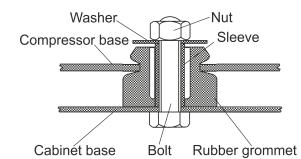
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 12.81–12.99 / 0.50–0.51in	øi 8.11–8.29 / 0.32–0.33in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	37°
Vertical angle ±2°	36°	0°	36°
Position l/h/w [mm]	-110.5/211.8/56.7 / -4.35/8.34/2.23in	115.5/127/81 / 4.55/5.00/3.19in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

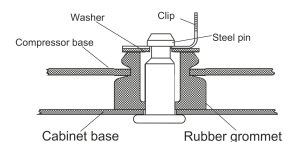


Dimensions in mm [in]

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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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	10 µF
Start capacitor	60 µF
LRA (locked rotor amps / 4s/ U(N))	27.1 A
RLA (rated load amps / 1s/ U(N))	4.7 A
Cut in current (U(N))	27.1 A

Ambient/ machine room temperatures minimum /maximum

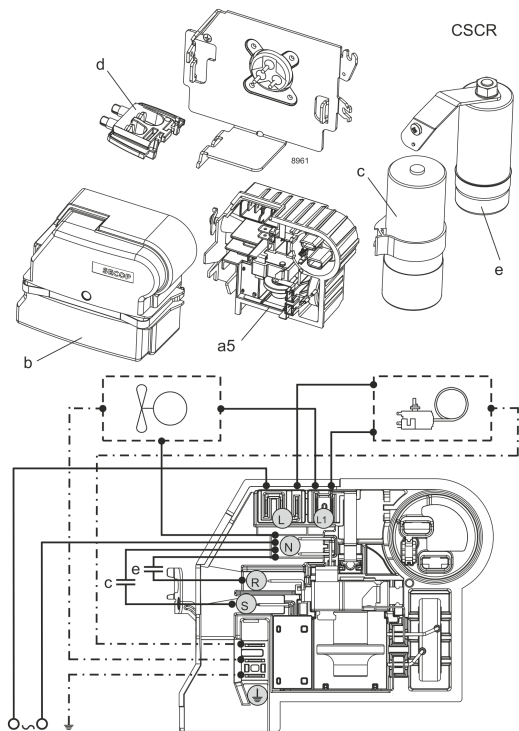
Ambient temperature range: 10 - 43°C / 50 - 109°F

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 117U8100

c start capacitor (60µF) 117U5351

b cover terminal board + clamp 117U1036

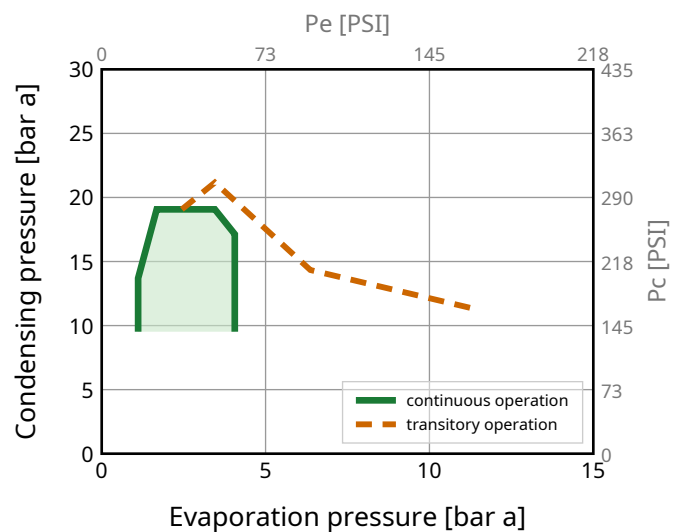
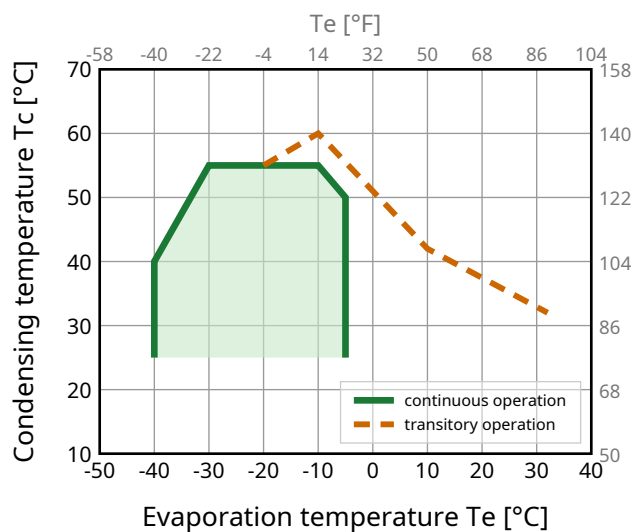
e run cap (10µF, 6.3mm,c.length 280mm) 117-7166

e1 retaining clamp 117-0313

screw M4x8mm 117-0301

d cord relief 103N1007

Operation Pressure Range



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Standard Conditions

R290, 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	1230	4198	1058	1.57	5.37	782	3.64	12.50	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	906	3092	779	1.22	4.16	744	3.46	11.36	CECOMAF LBP
-35 -31	40 104	20 68	40 104	711	2425	611	1.31	4.48	541	2.54	8.15	EN12900 LBP
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	1034	3529	889	1.35	4.62	765	3.56	14.36	ARI540 LBP
-23.3 -10	40.6 105.1	32.2 90	32.2 90	1410	4811	1213	1.96	6.67	722	3.36	14.32	AHAM LBP
-35 -31	45 113	32 89.6	45 113	656	2238	564	1.20	4.09	547	2.57	7.39	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	462	1577	398	0.99	3.39	466	2.22	5.20
-35	-31	656	2238	564	1.20	4.09	547	2.57	7.39
-30	-22	878	2997	755	1.39	4.75	632	2.95	9.93
-25	-13	1132	3861	973	1.58	5.38	717	3.34	12.83
-20	-4	1418	4837	1219	1.77	6.04	801	3.72	16.13
-15	5	1739	5932	1495	1.97	6.74	881	4.09	19.86
-10	14	2096	7153	1803	2.20	7.50	954	4.43	24.07
-5	23	2493	8507	2144	2.45	8.37	1017	4.73	28.80

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

-40	-40	335	1142	288	0.79	2.71	422	2.01	4.16
-35	-31	494	1686	425	0.95	3.23	522	2.45	6.16
-30	-22	684	2334	588	1.08	3.70	630	2.94	8.54
-25	-13	906	3092	779	1.22	4.16	744	3.46	11.36
-20	-4	1162	3966	1000	1.35	4.61	861	4.00	14.63
-15	5	1455	4965	1252	1.49	5.08	978	4.54	18.41
-10	14	1787	6096	1536	1.64	5.58	1092	5.08	22.72
-5	23	2158	7364	1856	1.80	6.13	1202	5.61	27.63