

Model

SCE18CNLX

Sales code:

104H8848

Compressor Data

Refrigerant(s)	R290
Refr. charge - tech. limit	550g / 19.40oz
Weight	14.20 kg / 31.31lbs
Displacement	17.69 cm3 / 1.08cu.in
Compressors on pallet	80



General – Configurations With SCE18CNLX

-	Conf. 1
Motor configuration	CSIR
Power supply (nominal)	220-240 V/50 Hz
Number of phases	1
Voltage range	198-254 V
Approvals	VDE
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

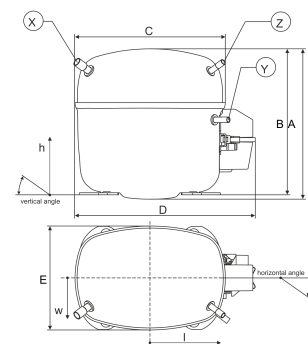
Oil type	POE	Winding resistance main	4.07 Ohm
Oil viscosity	32cSt	Winding resistance aux	15.88 Ohm
Oil quantity	550 / 18.60fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	1,460 cm³ / 49.37fl.oz	Max. discharge temp.	140°C / 284°F
Motor protection	external		

Compressor Dimensions

Housing

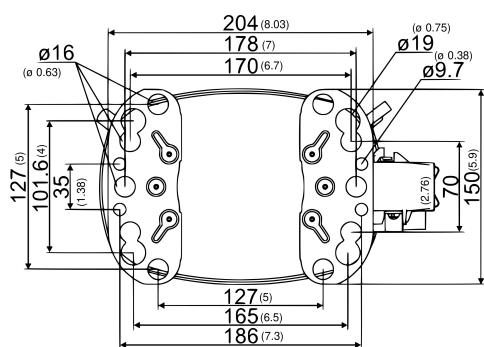
A Height	219mm / 8.62in
B Height	213mm / 8.39in
C Length shell	218mm / 8.58in
D Length w. cover	255mm / 10.04in
E Width	151mm / 5.94in

[Find 3D Model here](#)

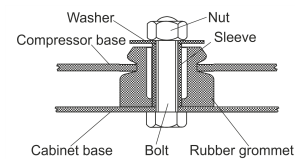


Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 10.11–10.29 / 0.40–0.41in	øi 6.11–6.29 / 0.24–0.25in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	143°
Vertical angle ±2°	30°	0°	150°
Position l/h/w [mm]	107/193/55 / 4.21/7.60/2.17in	115/110/63 / 4.53/4.33/2.48in	-107/193/55 / -4.21/7.60/2.17in
Straight tube l. [mm]	12 / 0.47in	12 / 0.47in	12 / 0.47in

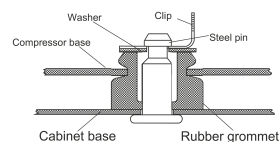
Mounting Accessories



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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Motor configuration	CSIR
Power supply (nominal)	220-240 V/50 Hz 1~
Refrigerant	R290
Application	LBP
Voltage range	198-254 V
Starting torque	HST
Approvals	VDE
Starting device type	relay
Run capacitor	-/-
Start capacitor	80 µF
LRA (locked rotor amps / 4s/ U(N))	17.47 A
RLA (rated load amps / 1s/ U(N))	2.92 A
Cut in current (U(N))	17.47 A

Ambient/ machine room temperatures minimum /maximum

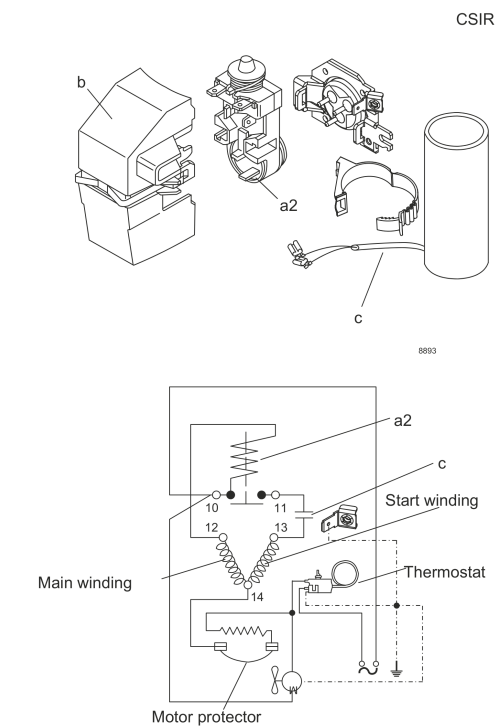
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



Components (relay + cover: pre-assembled)

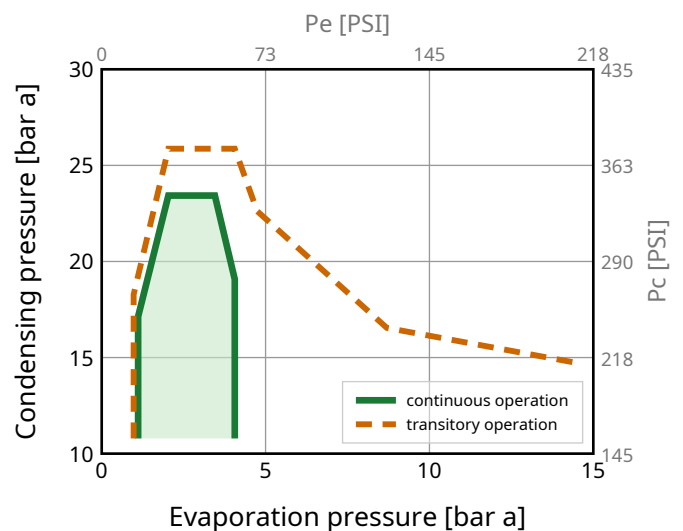
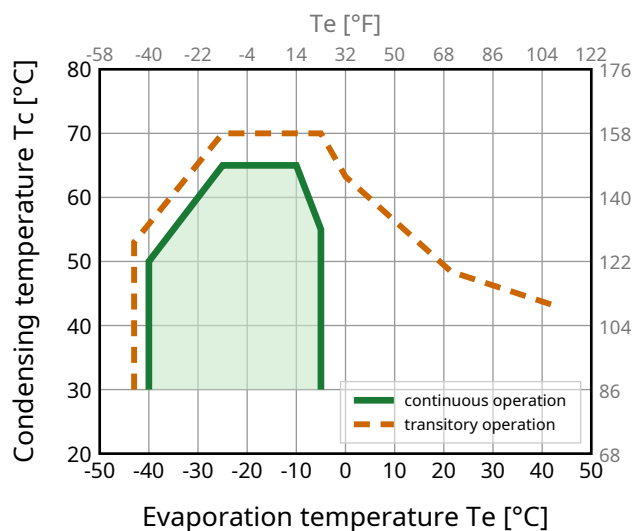
a2 assy. relay + ext. protector (T1133) 117U7405

c start capacitor (80µF) 117U5017

d cord relief 103N1004

b plastic cover + clamp 117U1033

Operation Pressure Range



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Standard Conditions

R290, 230 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	796	2716	684	1.52	5.18	524	3.00	8.08	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	586	2000	504	1.17	3.98	502	2.94	7.35	CECOMAF LBP
-35 -31	40 104	20 68	40 104	440	1501	378	1.22	4.15	361	2.58	5.05	EN12900 LBP
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	654	2231	562	1.28	4.36	512	2.96	9.08	ARI540 LBP
-23.3 -10	40.6 105.1	32.2 90	32.2 90	871	2972	749	1.77	6.06	491	2.94	8.85	AHAM LBP
-35 -31	45 113	32 89.6	45 113	414	1412	356	1.14	3.89	363	2.56	4.66	opt LBP

Performance Tables

R290, 230 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]
-40	-40	315	1073	271	1.04	3.56	301	2.42	3.54
-35	-31	414	1412	356	1.14	3.89	363	2.56	4.66
-30	-22	542	1850	466	1.28	4.36	424	2.72	6.13
-25	-13	701	2392	603	1.45	4.95	483	2.89	7.95
-20	-4	892	3042	767	1.65	5.64	539	3.07	10.14
-15	5	1115	3804	959	1.89	6.44	591	3.25	12.74
-10	14	1372	4680	1180	2.15	7.35	637	3.42	15.75
-5	23	1663	5675	1430	2.46	8.39	676	3.57	19.21

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

-40	-40	230	786	198	0.80	2.72	290	2.34	2.86
-35	-31	325	1108	279	0.90	3.08	360	2.51	4.04
-30	-22	443	1511	381	1.03	3.50	431	2.71	5.53
-25	-13	586	2000	504	1.17	3.98	502	2.94	7.35
-20	-4	755	2577	650	1.32	4.51	571	3.17	9.51
-15	5	952	3248	819	1.49	5.10	637	3.41	12.04
-10	14	1177	4016	1012	1.68	5.75	699	3.64	14.97
-5	23	1431	4883	1231	1.90	6.47	755	3.86	18.32