

Model

SCE15CNLX

Sales code:

104H8588

Compressor Data

Refrigerant(s)	R290
Refr. charge - tech. limit	450g / 15.87oz
Weight	14.20 kg / 31.31lbs
Displacement	15.28 cm3 / 0.93cu.in
Compressors on pallet	80



General – Configurations With SCE15CNLX

-	Conf. 1
Motor configuration	CSIR
Power supply (nominal)	208-230 V/60 Hz
Number of phases	1
Voltage range	187-253 V
Approvals	UL, KC, CB
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

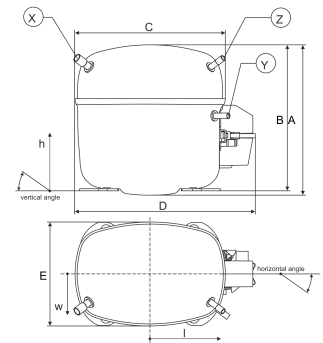
Oil type	POE	Winding resistance main	3.5 Ohm
Oil viscosity	32cSt	Winding resistance aux	20.7 Ohm
Oil quantity	550 / 18.60fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	1,460 cm³ / 49.37fl.oz	Max. discharge temp.	135°C / 275°F
Motor protection	external		

Compressor Dimensions

Housing

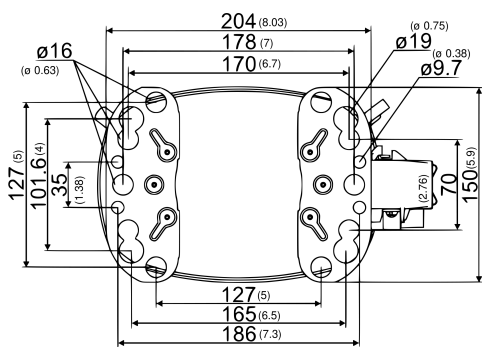
A Height	219mm / 8.62in
B Height	213mm / 8.39in
C Length shell	218mm / 8.58in
D Length w. cover	255mm / 10.04in
E Width	151mm / 5.94in

[Find 3D Model here](#)

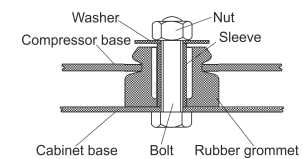


Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 9.54–9.72 / 0.38–0.38in	øi 6.41–6.59 / 0.25–0.26in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	143°
Vertical angle ±2°	30°	0°	150°
Position l/h/w [mm]	107/193/55 / 4.21/7.60/2.17in	115/110/63 / 4.53/4.33/2.48in	-107/193/55 / -4.21/7.60/2.17in
Straight tube l. [mm]	12 / 0.47in	12 / 0.47in	12 / 0.47in

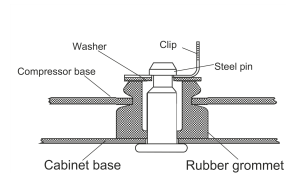
Mounting Accessories



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)	208-230 V/60 Hz 1~
Refrigerant	R290
Application	LBP
Voltage range	187-253 V
Starting torque	HST
Approvals	UL, KC, CB
Starting device type	relay
Run capacitor	-/-
Start capacitor	60 µF
LRA (locked rotor amps / 4s/ U(N))	20.9 A
RLA (rated load amps / 1s/ U(N))	3.8 A
Cut in current (U(N))	20.9 A

Ambient/ machine room temperatures minimum /maximum

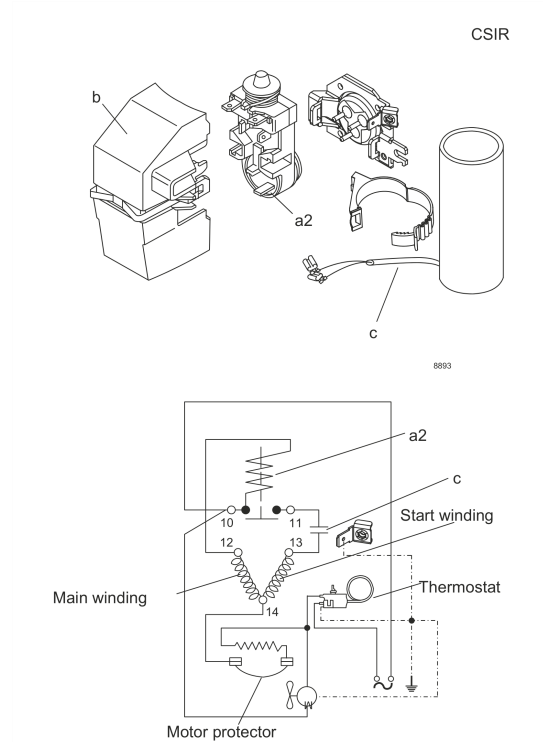
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



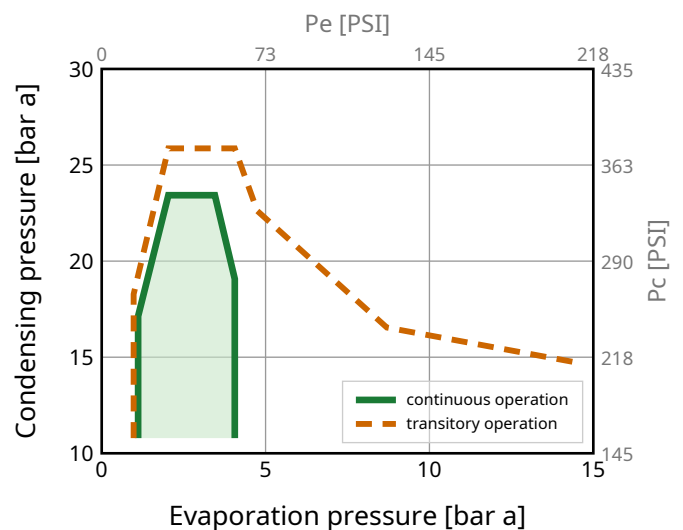
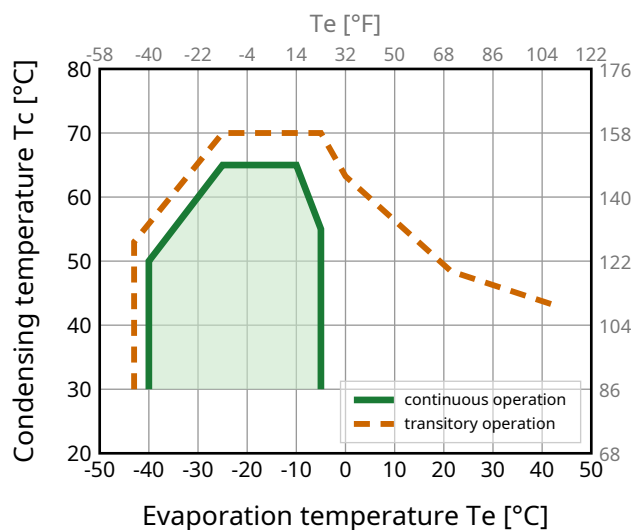
Components (relay + cover: pre-assembled)

a2 assy. relay + ext. protector (T1120) 117U7413

c start capacitor (60µF, 6.3mm, 82kOhm) 117U5076

b plastic cover + clamp 117U1021

Operation Pressure Range



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Standard Conditions

R290, 230 V/60 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	767	2617	660	1.48	5.05	519	3.05	7.79	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	550	1877	473	1.13	3.87	486	2.95	6.90	CECOMAF LBP
-35 -31	40 104	20 68	40 104	415	1417	357	1.13	3.87	366	2.58	4.77	EN12900 LBP
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	650	2216	559	1.23	4.20	527	3.06	9.02	ARI540 LBP
-23.3 -10	40.6 105.1	32.2 90	32.2 90	911	3107	783	1.74	5.94	523	3.08	9.25	AHAM LBP
-35 -31	45 113	32 89.6	45 113	351	1197	302	1.02	3.47	345	2.48	3.95	opt LBP

Performance Tables

R290, 230 V/60 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	198	677	171	0.80	2.74	247	2.18	2.23
-35	-31	351	1197	302	1.02	3.47	345	2.48	3.95
-30	-22	520	1773	447	1.21	4.12	430	2.75	5.87
-25	-13	708	2417	609	1.40	4.79	505	3.00	8.03
-20	-4	920	3138	791	1.61	5.49	571	3.23	10.46
-15	5	1157	3948	995	1.83	6.26	630	3.45	13.22
-10	14	1424	4858	1224	2.08	7.09	685	3.66	16.35
-5	23	1722	5877	1481	2.34	7.98	736	3.88	19.89

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

-40	-40	39	132	33	0.28	0.97	136	1.84	0.48
-35	-31	197	672	169	0.74	2.51	267	2.25	2.45
-30	-22	366	1250	315	0.96	3.26	383	2.62	4.58
-25	-13	550	1877	473	1.13	3.87	486	2.95	6.90
-20	-4	752	2564	646	1.31	4.46	576	3.26	9.46
-15	5	974	3323	837	1.49	5.07	655	3.55	12.31
-10	14	1220	4162	1049	1.68	5.73	727	3.81	15.51
-5	23	1493	5093	1284	1.89	6.44	792	4.07	19.11