

Model

SCE15CNLX

Sales code:

104H8548

Compressor Data

Refrigerant(s)	R290
Refr. charge - tech. limit	550g / 19.40oz
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)	220-240 V/50 Hz
Number of phases	1
Voltage range	198-254 V
Approvals	VDE, CCC
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

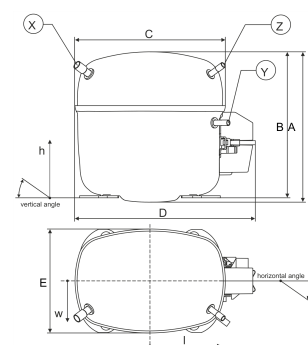
Oil type	POE	Winding resistance main	4.620 Ohm
Oil viscosity	32cSt	Winding resistance aux	15.94 Ohm
Oil quantity	550 / 18.60fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	1,460 cm³ / 49.37fl.oz	Max. discharge temp.	140°C / 284°F
Motor protection	external		

Compressor Dimensions

Housing

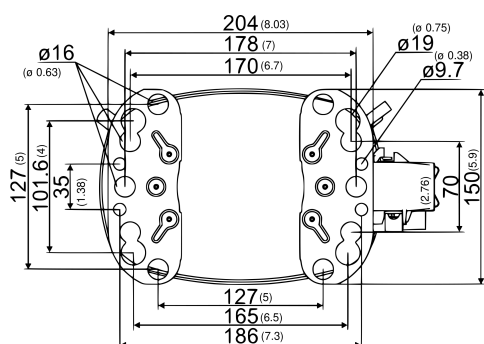
A Height	219mm / 8.62in
B Height	213mm / 8.39in
C Length shell	218mm / 8.58in
D Length w. cover	255mm / 10.04in
E Width	151mm / 5.94in

[Find 3D Model here](#)

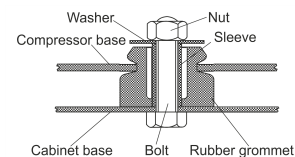


Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 10.11–10.29 / 0.40–0.41in	øi 6.11–6.29 / 0.24–0.25in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	143°
Vertical angle ±2°	30°	0°	150°
Position l/h/w [mm]	107/193/55 / 4.21/7.60/2.17in	115/110/63 / 4.53/4.33/2.48in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

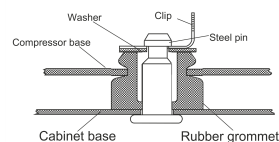
Mounting Accessories



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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Configuration 1

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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, CCC
Starting device type	relay
Run capacitor	-/-
Start capacitor	80 µF
LRA (locked rotor amps / 4s/ U(N))	15.87 A
RLA (rated load amps / 1s/ U(N))	3.01 A
Cut in current (U(N))	15.87 A

Ambient/ machine room temperatures minimum /maximum

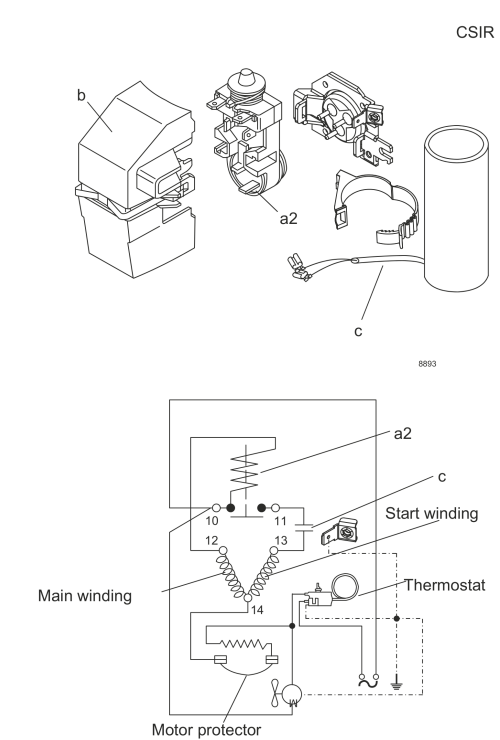
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



Components (relay + cover: pre-assembled)

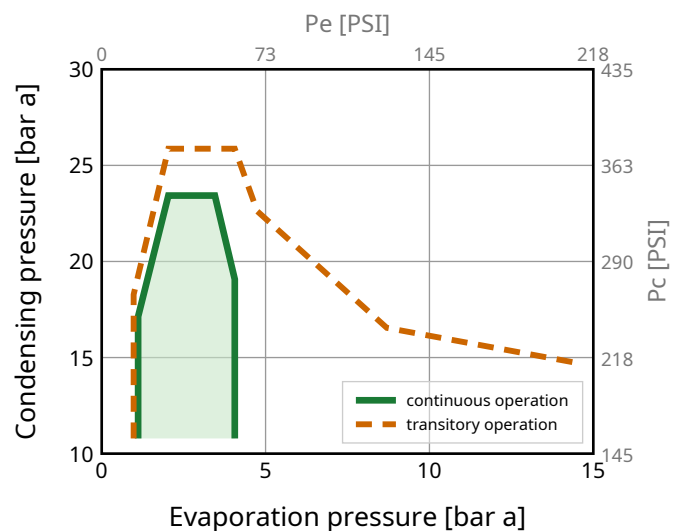
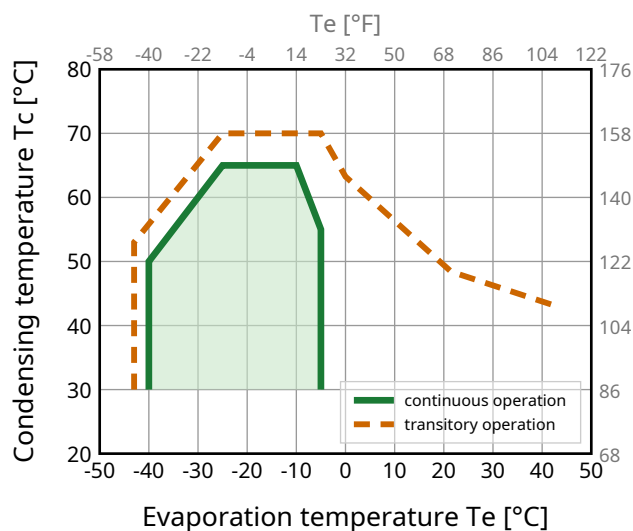
a2 assy. relay + ext. protector (T1132) 117U7403

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	670	2284	576	1.53	5.22	438	2.62	6.80	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	491	1674	422	1.17	4.00	418	2.55	6.15	CECOMAF LBP
-35 -31	40 104	20 68	40 104	358	1220	308	1.16	3.97	308	2.28	4.10	EN12900 LBP
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	552	1885	475	1.29	4.39	429	2.60	7.67	ARI540 LBP
-23.3 -10	40.6 105.1	32.2 90	32.2 90	740	2526	637	1.80	6.14	411	2.54	7.52	AHAM LBP
-25 -13	45 113	32 89.6	45 113	592	2020	509	1.46	4.98	405	2.53	6.71	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	241	822	207	0.90	3.08	267	2.19	2.71
-35	-31	334	1139	287	1.08	3.67	310	2.27	3.76
-30	-22	450	1537	387	1.26	4.30	357	2.39	5.09
-25	-13	592	2020	509	1.46	4.98	405	2.53	6.71
-20	-4	760	2591	653	1.68	5.72	453	2.68	8.64
-15	5	954	3256	821	1.91	6.52	499	2.85	10.90
-10	14	1178	4020	1013	2.18	7.43	541	3.01	13.53
-5	23	1432	4885	1231	2.48	8.45	578	3.15	16.54

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

-40	-40	169	576	145	0.66	2.25	256	2.04	2.10
-35	-31	257	876	221	0.84	2.86	307	2.18	3.20
-30	-22	364	1241	313	1.01	3.44	361	2.35	4.54
-25	-13	491	1674	422	1.17	4.00	418	2.55	6.15
-20	-4	639	2182	550	1.34	4.58	477	2.77	8.05
-15	5	811	2766	697	1.52	5.18	535	2.99	10.25
-10	14	1006	3433	865	1.71	5.82	590	3.22	12.80
-5	23	1227	4187	1055	1.91	6.53	642	3.43	15.71