

Model
SCE18CNLX

Sales code:
104H8888

Compressor Data

Refrigerant(s)	R290
Refr. charge - tech. limit	450g / 15.87oz
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)	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

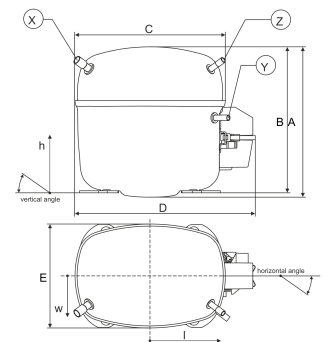
Oil type	POE	Winding resistance main	3.5 Ohm
Oil viscosity	32cSt	Winding resistance aux	20.7 Ohm
Oil quantity	550 / 18.60fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	1,460 cm³ / 49.37fl.oz	Max. discharge temp.	140°C / 284°F
Motor protection	external		

Compressor Dimensions

Housing

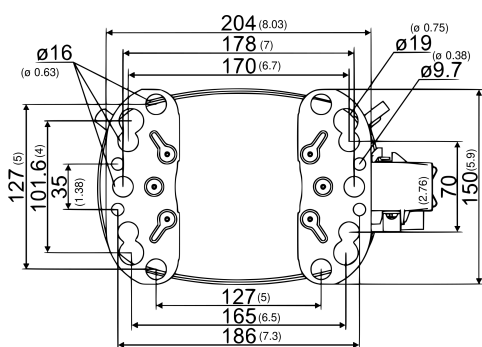
A Height	219mm / 8.62in
B Height	213mm / 8.39in
C Length shell	218mm / 8.58in
D Length w. cover	255mm / 10.04in
E Width	151mm / 5.94in

[Find 3D Model here](#)

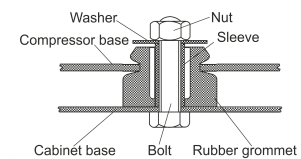


Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 9.54–9.72 / 0.38–0.38in	øi 6.41–6.59 / 0.25–0.26in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	143°
Vertical angle ±2°	30°	0°	150°
Position l/h/w [mm]	107/193/55 / 4.21/7.60/2.17in	115/110/63 / 4.53/4.33/2.48in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

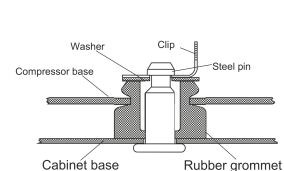
Mounting Accessories



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

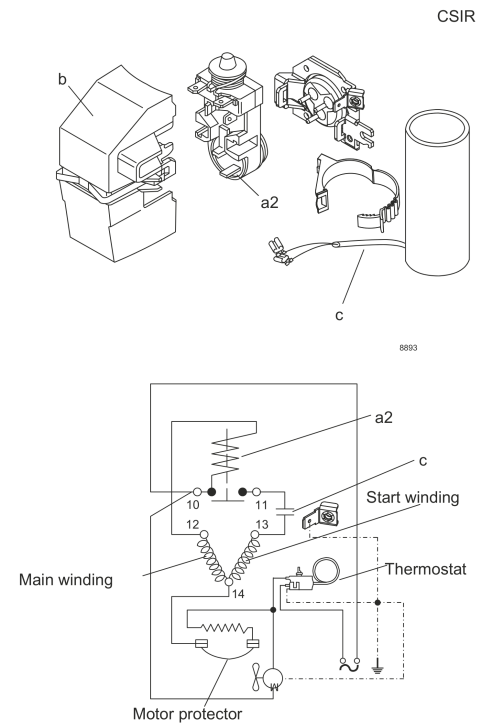
Ambient temperature range: 10 - 38°C / 50 - 100°F

Machine room temp. compressor: 10 - 43°C / 50 - 109°F

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



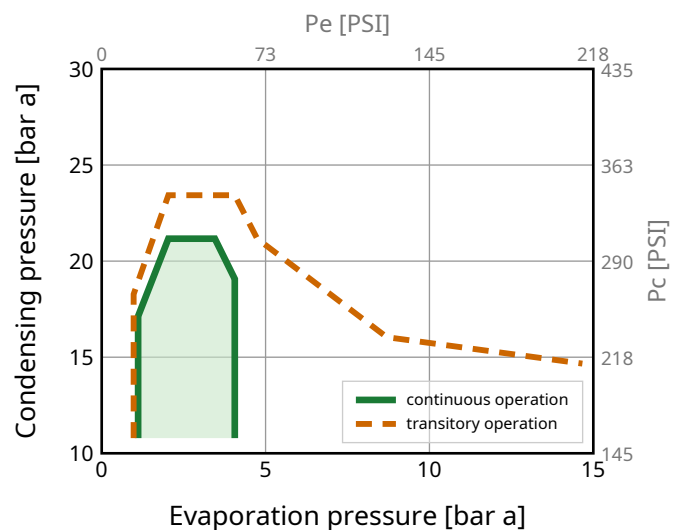
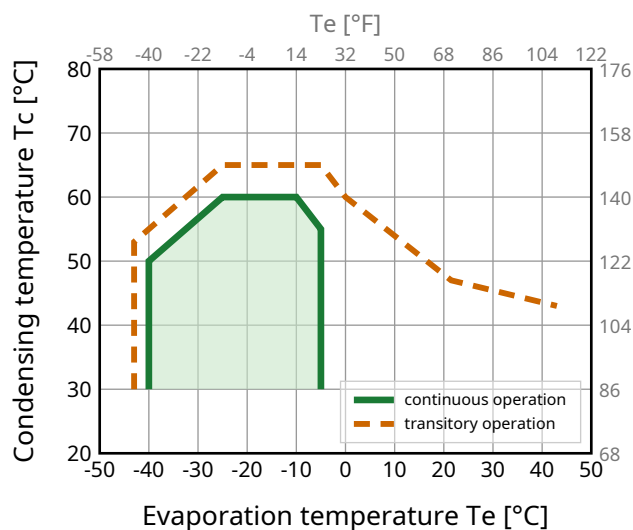
Components (relay + cover: pre-assembled)

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	943	3218	811	1.51	5.15	625	3.46	9.58	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	694	2367	597	1.16	3.97	596	3.34	8.70	CECOMAF LBP
-35 -31	40 104	20 68	40 104	523	1784	450	1.15	3.93	454	2.85	6.00	EN12900 LBP
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	782	2666	672	1.27	4.35	613	3.39	10.85	ARI540 LBP
-23.3 -10	40.6 105.1	32.2 90	32.2 90	1061	3620	913	1.79	6.10	593	3.29	10.78	AHAM LBP
-35 -31	45 113	32 89.6	45 113	481	1640	413	1.07	3.64	451	2.83	5.42	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	325	1109	280	0.84	2.88	385	2.65	3.65
-35	-31	481	1640	413	1.07	3.64	451	2.83	5.42
-30	-22	654	2230	562	1.26	4.31	518	3.04	7.38
-25	-13	848	2893	729	1.45	4.95	585	3.27	9.61
-20	-4	1069	3646	919	1.65	5.61	650	3.52	12.16
-15	5	1320	4505	1135	1.86	6.33	711	3.77	15.08
-10	14	1607	5484	1382	2.09	7.14	768	4.00	18.45
-5	23	1934	6600	1663	2.37	8.07	818	4.22	22.34

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

-40	-40	203	692	174	0.65	2.21	313	2.35	2.52
-35	-31	353	1204	304	0.87	2.96	407	2.65	4.40
-30	-22	515	1758	443	1.03	3.50	502	2.98	6.43
-25	-13	694	2367	597	1.16	3.97	596	3.34	8.70
-20	-4	894	3050	769	1.30	4.44	688	3.71	11.25
-15	5	1120	3820	963	1.45	4.93	775	4.07	14.16
-10	14	1376	4694	1183	1.61	5.48	857	4.42	17.50
-5	23	1667	5688	1434	1.79	6.10	932	4.74	21.34