

Model
SCE21CNLX

Sales code:
104H8174

Compressor Data

Refrigerant(s)	R290
Refr. charge - tech. limit	550g / 19.40oz
Weight	14.20 kg / 31.31lbs
Displacement	20.95 cm3 / 1.28cu.in
Compressors on pallet	80



General – Configurations With SCE21CNLX

-	Conf. 1
Motor configuration	CSIR
Power supply (nominal)	208-230 V/60 Hz
Number of phases	1
Voltage range	198-253 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

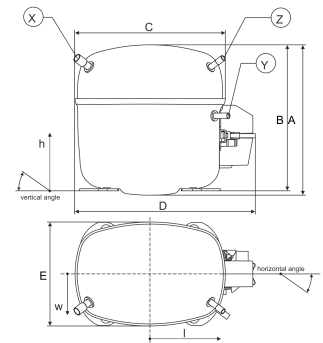
Oil type	POE	Winding resistance main	2.7 Ohm
Oil viscosity	32cSt	Winding resistance aux	18.7 Ohm
Oil quantity	550 / 18.60fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	1,460 cm³ / 49.37fl.oz	Max. discharge temp.	140°C / 284°F
Motor protection	external		

Compressor Dimensions

Housing

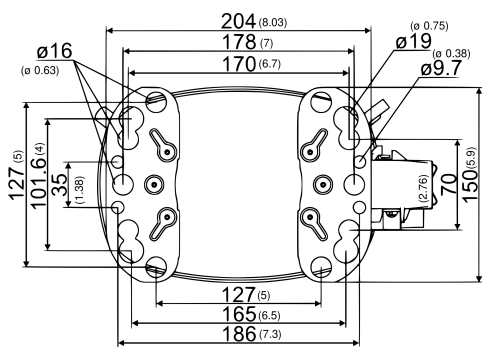
A Height	219mm / 8.62in
B Height	213mm / 8.39in
C Length shell	218mm / 8.58in
D Length w. cover	255mm / 10.04in
E Width	151mm / 5.94in

[Find 3D Model here](#)

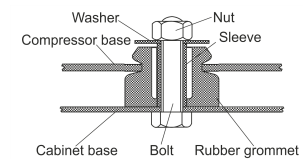


Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 9.54–9.72 / 0.38–0.38in	øi 6.41–6.59 / 0.25–0.26in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	143°
Vertical angle ±2°	30°	0°	150°
Position l/h/w [mm]	107/193/55 / 4.21/7.60/2.17in	115/110/63 / 4.53/4.33/2.48in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

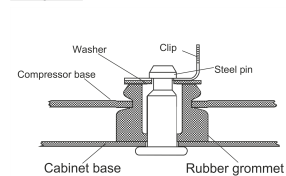
Mounting Accessories



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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Configuration 1

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Configuration

Motor configuration	CSIR
Power supply (nominal)	208-230 V/60 Hz 1~
Refrigerant	R290
Application	LBP
Voltage range	198-253 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))	25.9 A
RLA (rated load amps / 1s/ U(N))	5 A
Cut in current (U(N))	25.9 A

Ambient/ machine room temperatures minimum /maximum

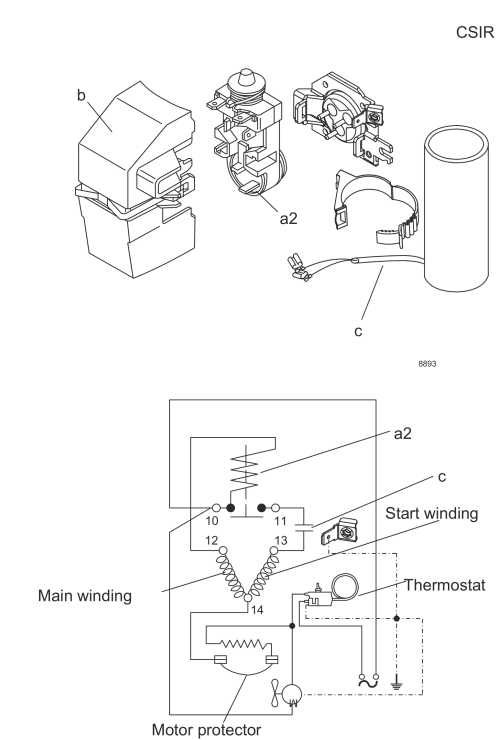
Ambient temperature range: 10 - 38°C / 50 - 100°F

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

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



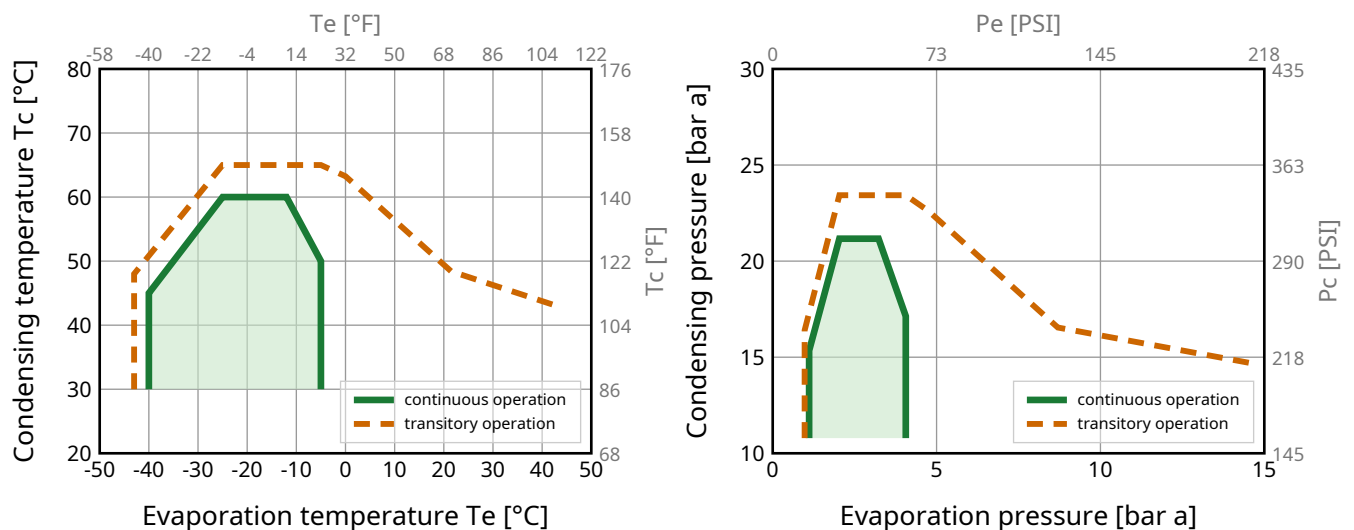
Components (relay + cover: pre-assembled)

a2 assy. relay + ext. protector (T1141) 117U7407

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	1082	3692	931	1.52	5.20	710	4.11	10.99	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	792	2702	681	1.18	4.02	672	4.00	9.93	CECOMAF LBP
-35 -31	40 104	20 68	40 104	615	2097	529	1.20	4.10	512	3.53	7.05	EN12900 LBP
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	915	3121	787	1.28	4.36	715	4.10	12.70	ARI540 LBP
-23.3 -10	40.6 105.1	32.2 90	32.2 90	1250	4266	1075	1.77	6.05	706	4.11	12.70	AHAM LBP
-35 -31	45 113	32 89.6	45 113	567	1935	488	1.13	3.85	503	3.49	6.39	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	401	1370	345	0.97	3.33	412	3.29	4.51
-35	-31	567	1935	488	1.13	3.85	503	3.49	6.39
-30	-22	765	2609	658	1.29	4.39	594	3.73	8.64
-25	-13	997	3401	857	1.46	4.97	684	4.01	11.30
-20	-4	1267	4324	1090	1.65	5.62	770	4.30	14.42
-15	5	1579	5388	1358	1.86	6.34	850	4.59	18.04
-10	14	1936	6606	1665	2.10	7.17	921	4.88	22.23
-5	23	2341	7987	2013	2.38	8.13	982	5.13	27.04

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

-40	-40	259	885	223	0.73	2.49	355	3.23	3.22
-35	-31	410	1401	353	0.90	3.06	457	3.41	5.11
-30	-22	587	2003	505	1.04	3.56	563	3.68	7.33
-25	-13	792	2702	681	1.18	4.02	672	4.00	9.93
-20	-4	1029	3511	885	1.32	4.50	780	4.36	12.95
-15	5	1301	4439	1119	1.47	5.01	886	4.75	16.45
-10	14	1612	5499	1386	1.63	5.57	987	5.15	20.50
-5	23	1964	6702	1689	1.81	6.19	1082	5.55	25.14