

Model

SCE18CNLX

Sales code:

104H7878

Compressor Data

Refrigerant(s)	R290
Refr. charge - tech. limit	450g / 15.87oz
Weight	14.20 kg / 31.31lbs
Displacement	17.68 cm3 / 1.08cu.in
Compressors on pallet	80



General – Configurations With SCE18CNLX

-	Conf. 1	Conf. 2
Motor configuration	CSCR	CSCR
Power supply (nominal)	115 V/60 Hz	115 V/60 Hz
Number of phases	1	1
Voltage range	103-127 V	95-135 V
Approvals	UL	UL
Starting torque	HST	HST
Refrigerant	R290	R290
Application	LBP	LBP
Hot gas defrost	OK	OK

Application Notes

- Protector 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

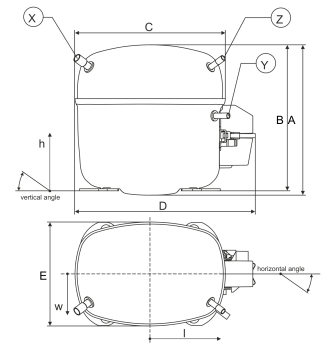
Oil type	POE	Winding resistance main	0.800 Ohm
Oil viscosity	32cSt	Winding resistance aux	2.90 Ohm
Oil quantity	550 / 18.60fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	1,460 cm³ / 49.37fl.oz	Max. discharge temp.	140°C / 284°F
Motor protection	external		

Compressor Dimensions

Housing

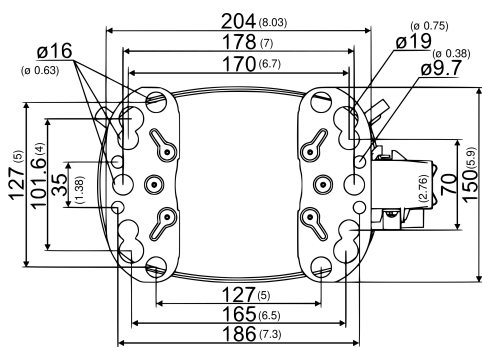
A Height	219mm / 8.62in
B Height	213mm / 8.39in
C Length shell	218mm / 8.58in
D Length w. cover	255mm / 10.04in
E Width	151mm / 5.94in

[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	CSCR
Power supply (nominal)	115 V/60 Hz 1~
Refrigerant	R290
Application	LBP
Voltage range	103-127 V
Starting torque	HST
Approvals	UL
Starting device type	relay
Run capacitor	23.5 μF
Start capacitor	280 μF
LRA (locked rotor amps / 4s/ U(N))	43.13 A
RLA (rated load amps / 1s/ U(N))	8.3 A
Cut in current (U(N))	43.13 A

Ambient/ machine room temperatures minimum /maximum

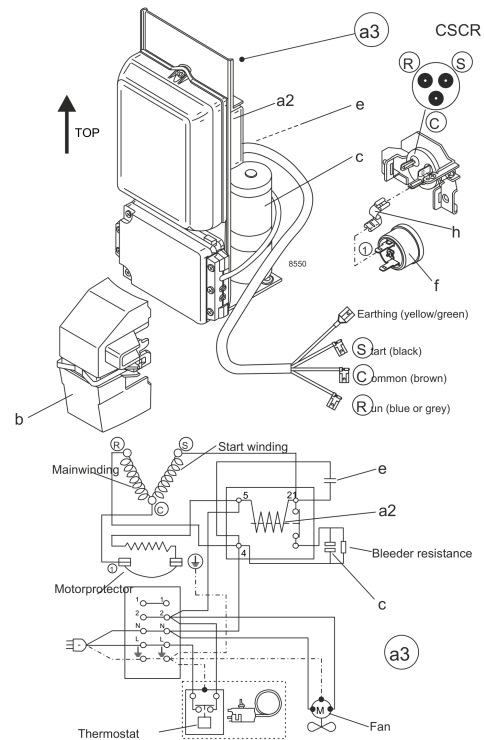
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



[View full size](#)

Components (protector + ~holder + cover: pre assembled)

a3 SC starter kit (550mm) 117-7801

h protector holder 117U0439

f ext. protector (T1100) 117U3219

b plastic cover + clamp 117U1021

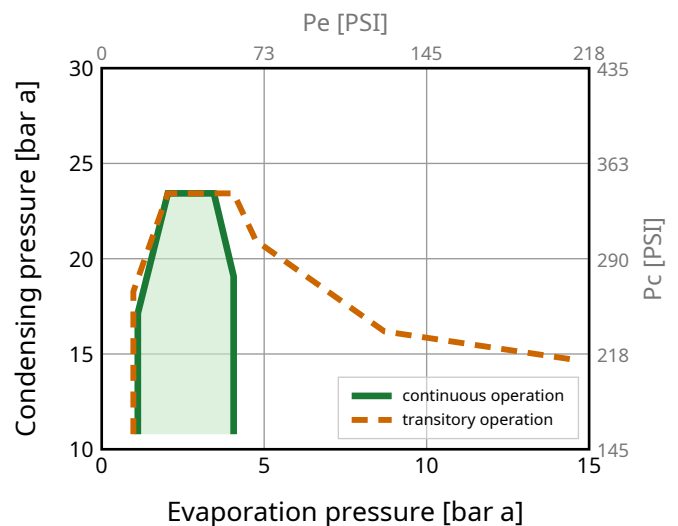
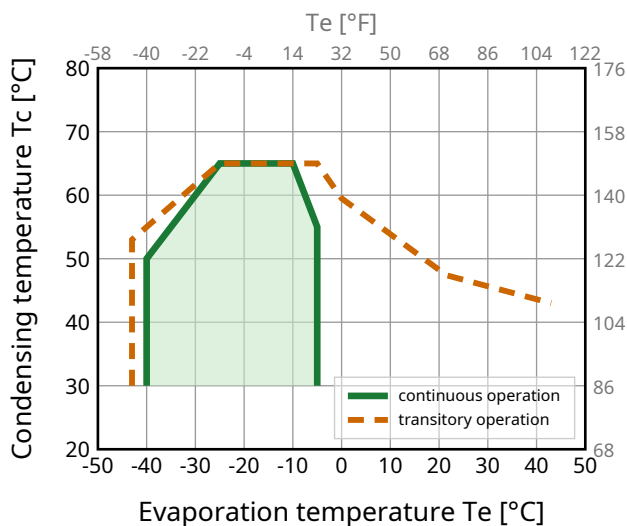
Alternative components

a2 potential relay (RVA 7AA3R) 117-7441

e run capacitor (23,5 μ F, 6.3mm) 117-7133

c start capacitor (280 μ F, 6.3mm) 117U5350

Operation Pressure Range



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Configuration 1

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Standard Conditions

R290, 115 V/60 Hz, CSCR, 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	949	3238	816	1.62	5.52	587	5.90	9.64	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	694	2368	597	1.25	4.25	557	5.66	8.70	CECOMAF LBP
-35 -31	40 104	20 68	40 104	466	1589	401	1.16	3.96	401	4.46	5.34	EN12900 LBP
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	791	2698	680	1.36	4.64	581	5.84	10.98	ARI540 LBP
-23.3 -10	40.6 105.1	32.2 90	32.2 90	1079	3682	928	1.91	6.51	565	5.71	10.96	AHAM LBP
-25 -13	45 113	32 89.6	45 113	852	2906	732	1.55	5.29	549	5.58	9.65	opt LBP

Performance Tables

R290, 115 V/60 Hz, CSCR, 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	163	556	140	0.53	1.81	308	3.82	1.83
-35	-31	404	1377	347	1.03	3.50	393	4.41	4.55
-30	-22	628	2142	540	1.33	4.52	473	5.00	7.09
-25	-13	852	2906	732	1.55	5.29	549	5.58	9.65
-20	-4	1091	3721	938	1.76	6.01	620	6.16	12.41
-15	5	1360	4642	1170	1.99	6.78	685	6.70	15.54
-10	14	1677	5721	1442	2.25	7.68	745	7.22	19.25
-5	23	2055	7011	1767	2.57	8.78	799	7.70	23.73

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

-40	-40	76	259	65	0.27	0.93	278	3.62	0.94
-35	-31	296	1011	255	0.79	2.71	374	4.28	3.69
-30	-22	497	1696	427	1.06	3.63	467	4.96	6.21
-25	-13	694	2368	597	1.25	4.25	557	5.66	8.70
-20	-4	902	3079	776	1.40	4.78	644	6.36	11.36
-15	5	1138	3884	979	1.56	5.34	728	7.07	14.40
-10	14	1417	4835	1219	1.75	5.99	807	7.77	18.02
-5	23	1754	5986	1509	1.99	6.78	883	8.45	22.46

Model

SCE18CNLX

Configuration 2

Sales code:

104H7878

Configuration

Motor configuration	CSCR
Power supply (nominal)	115 V/60 Hz 1~
Refrigerant	R290
Application	LBP
Voltage range	95-135 V
Starting torque	HST
Approvals	UL
Starting device type	relay
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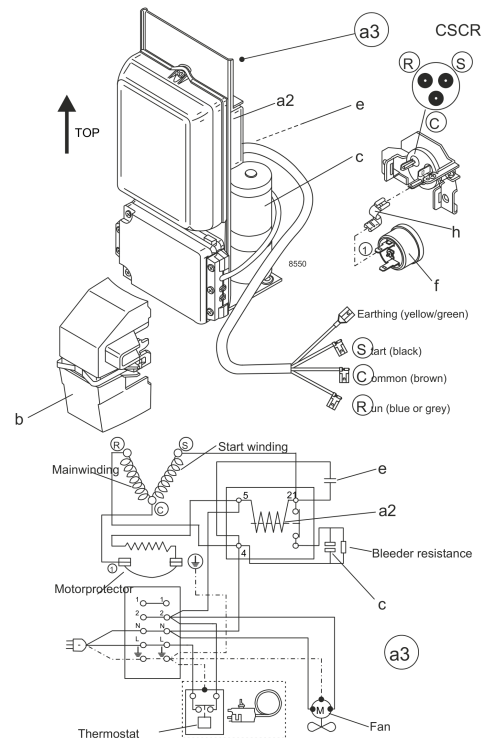
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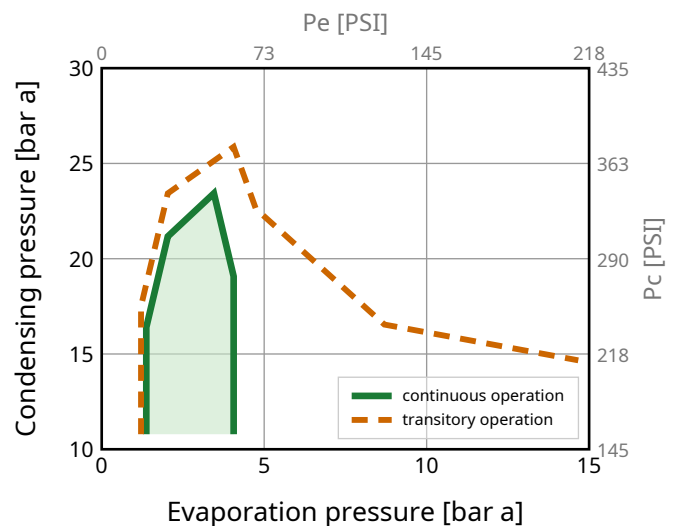
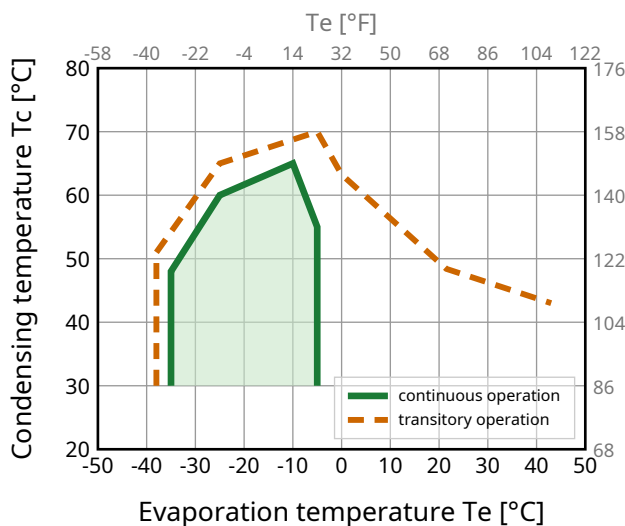
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