

Model

SCE18CNX

Sales code:

104H8840

Compressor Data

Refrigerant(s)	R290
Refr. charge - tech. limit	550g / 19.40oz
Weight	14.20 kg / 31.31lbs
Displacement	17.69 cm3 / 1.08cu.in
Compressors on pallet	80



General – Configurations With SCE18CNX

–	Conf. 1
Motor configuration	CSCR
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+MBP
Hot gas defrost	OK
Long interval pull down	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

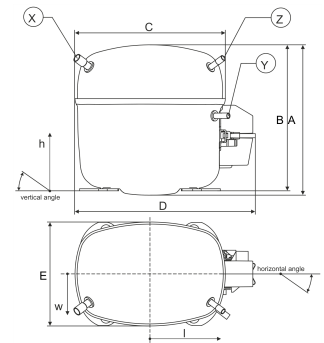
Oil type	POE	Winding resistance main	4.07 Ohm
Oil viscosity	32cSt	Winding resistance aux	15.88 Ohm
Oil quantity	550 / 18.60fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	1,460 cm³ / 49.37fl.oz	Max. discharge temp.	140°C / 284°F
Motor protection	external		

Compressor Dimensions

Housing

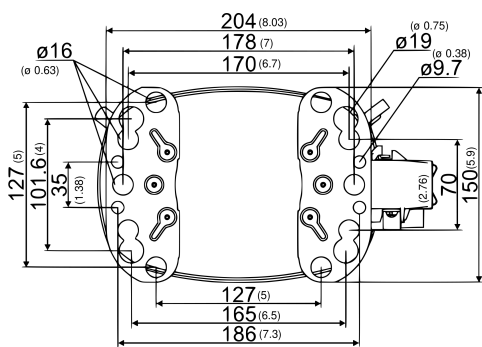
A Height	219mm / 8.62in
B Height	213mm / 8.39in
C Length shell	218mm / 8.58in
D Length w. cover	255mm / 10.04in
E Width	151mm / 5.94in

[Find 3D Model here](#)

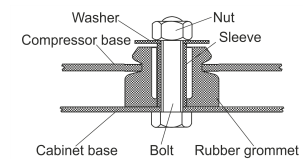


Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 10.11–10.29 / 0.40–0.41in	øi 6.11–6.29 / 0.24–0.25in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	143°
Vertical angle ±2°	30°	0°	150°
Position l/h/w [mm]	107/193/55 / 4.21/7.60/2.17in	115/110/63 / 4.53/4.33/2.48in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

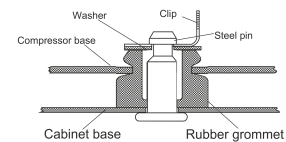
Mounting Accessories



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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Motor configuration	CSCR
Power supply (nominal)	220-240 V/50 Hz 1~
Refrigerant	R290
Application	LBP+MBP
Voltage range	198-254 V
Starting torque	HST
Approvals	VDE, CCC
Starting device type	relay
Run capacitor	10 μ F
Start capacitor	80 μ F
LRA (locked rotor amps / 4s/ U(N))	17.47 A
RLA (rated load amps / 1s/ U(N))	2.92 A
Cut in current (U(N))	17.47 A

Ambient/ machine room temperatures minimum /maximum

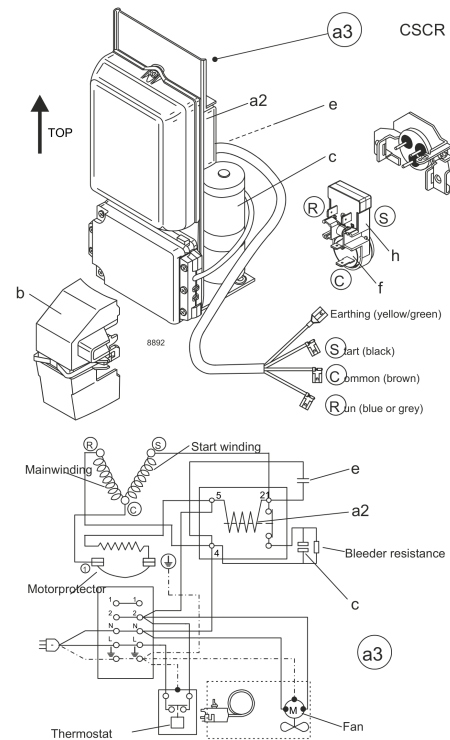
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



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

a3 SC starter kit (550mm) 117-7806

f / h motor protector assy. (T1133) 117U8007

d cord relief 103N1004

b plastic cover + clamp 117U1033

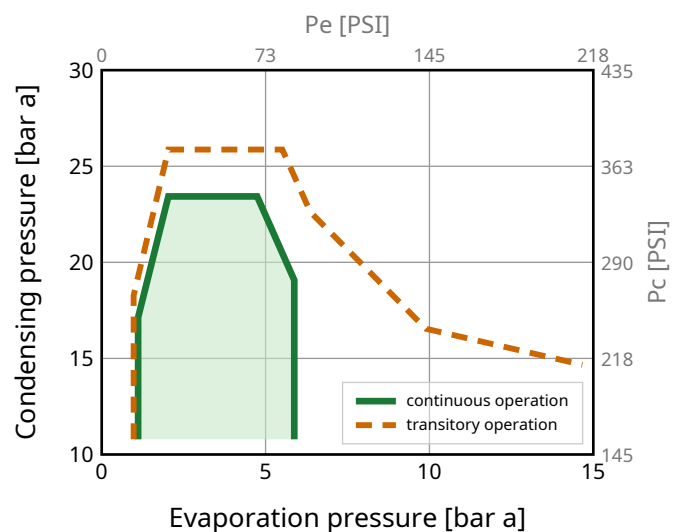
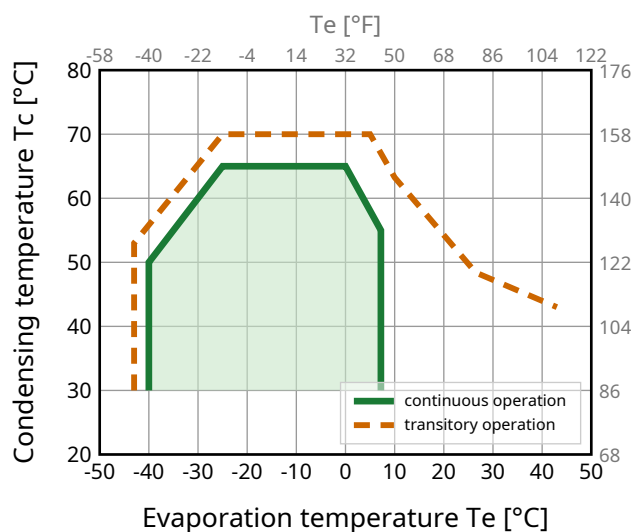
Alternative components

a2 potential relay (RVA 4I3R A57) 117-7600

e run capacitor (10 μ F, 6.3mm) 117-7112

c start capacitor (80 μ F) 117U5373

Operation Pressure Range



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Standard Conditions

R290, 230 V/50 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	811	2768	698	1.64	5.59	495	2.26	8.24	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	597	2036	513	1.25	4.28	476	2.18	7.48	CECOMAF LBP
-35 -31	40 104	20 68	40 104	437	1490	375	1.24	4.22	353	1.59	5.01	EN12900 LBP
-6.7 20	54.4 129.9	35 95	46.1 115	1526	5207	1313	2.24	7.65	681	3.04	17.47	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	1205	4112	1037	1.85	6.33	650	2.92	15.33	CECOMAF MBP
-10 14	45 113	20 68	45 113	1350	4606	1161	2.27	7.73	596	2.65	16.61	EN12900 MBP

Performance Tables

R290, 230 V/50 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	302	1030	260	0.97	3.31	311	1.34	3.39
-30	-22	547	1867	471	1.34	4.59	407	1.83	6.18
-20	-4	911	3107	783	1.80	6.13	506	2.28	10.36
-10	14	1403	4788	1207	2.36	8.04	596	2.65	16.11
0	32	2036	6947	1751	3.08	10.50	662	2.92	23.67
7.2	45	2585	8819	2223	3.76	12.82	688	3.04	30.41

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

-40	-40	219	748	188	0.71	2.44	306	1.36	2.72
-30	-22	447	1525	384	1.07	3.66	417	1.91	5.58
-20	-4	772	2634	664	1.44	4.92	536	2.44	9.72
-10	14	1205	4112	1037	1.85	6.33	650	2.92	15.33
0	32	1758	5998	1512	2.35	8.03	747	3.32	22.67
7.2	45	2236	7630	1923	2.80	9.56	798	3.55	29.21