

Model
SCE15CNX

Sales code:
104H8540

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 SCE15CNX

-	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

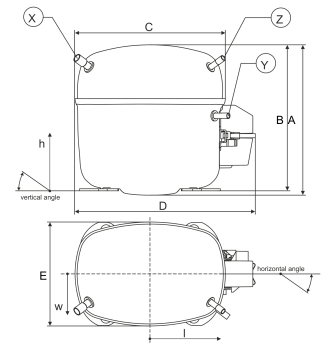
Oil type	POE	Winding resistance main	4.620 Ohm
Oil viscosity	32cSt	Winding resistance aux	15.94 Ohm
Oil quantity	550 / 18.60fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	1,460 cm³ / 49.37fl.oz	Max. discharge temp.	140°C / 284°F
Motor protection	external		

Compressor Dimensions

Housing

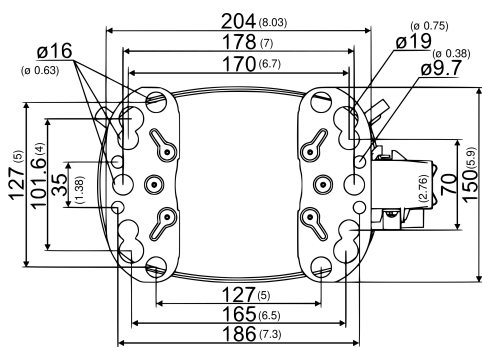
A Height	219mm / 8.62in
B Height	213mm / 8.39in
C Length shell	218mm / 8.58in
D Length w. cover	255mm / 10.04in
E Width	151mm / 5.94in

[Find 3D Model here](#)

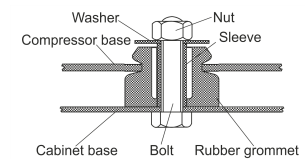


Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 10.11–10.29 / 0.40–0.41in	øi 6.11–6.29 / 0.24–0.25in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	143°
Vertical angle ±2°	30°	0°	150°
Position l/h/w [mm]	107/193/55 / 4.21/7.60/2.17in	115/110/63 / 4.53/4.33/2.48in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

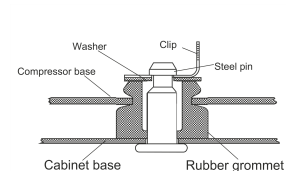
Mounting Accessories



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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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))	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

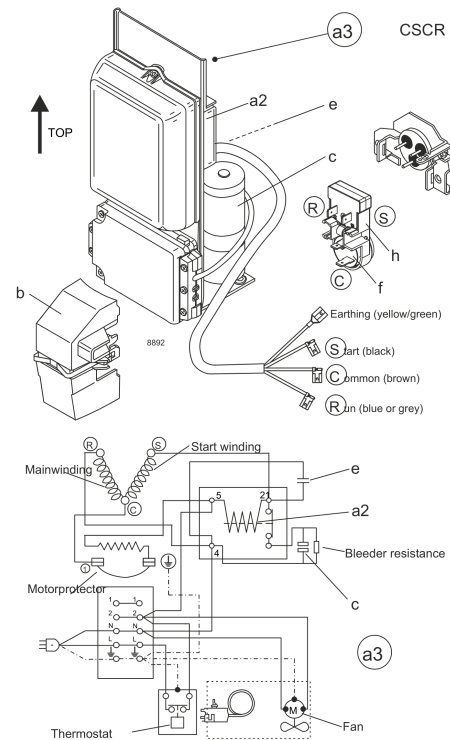
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



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

a3 SC starter kit (550mm) 117-7810

f / h motor protector assy. (T1132) 117U8004

d cord relief 103N1004

b plastic cover + clamp 117U1033

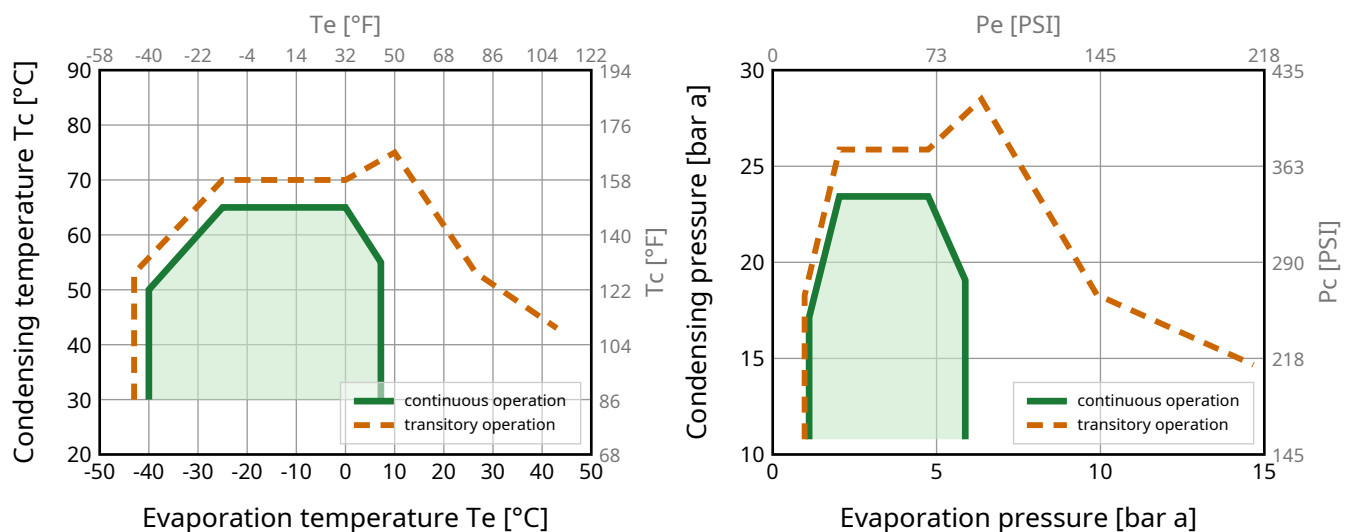
Alternative components

a2 potential relay (RVA 4L3R 447) 117-7429

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]	[°C]	[°C]	[°C]		[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]	
[°F]	[°F]	[°F]	[°F]										
-23.3	54.4	32.2	32.2		666	2274	573	1.62	5.54	410	1.92	6.77	ASHRAE LBP
-10	129.9	90	90										
-25	55	32	55		488	1666	420	1.24	4.23	393	1.84	6.12	CECOMAF LBP
-13	131	89.6	131										
-35	40	20	40		356	1214	306	1.20	4.10	296	1.40	4.08	EN12900 LBP
-31	104	68	104										
-6.7	54.4	35	46.1		1278	4361	1099	2.23	7.63	572	2.65	14.63	ASHRAE MBP
20	129.9	95	115										
-10	55	32	55		1006	3433	865	1.85	6.31	544	2.52	12.80	CECOMAF MBP
14	131	89.6	131										
-10	45	20	45		1132	3861	973	2.26	7.70	501	2.29	13.93	EN12900 MBP
14	113	68	113										

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	241	823	208	0.92	3.15	262	1.25	2.71
-30	-22	448	1529	385	1.32	4.50	339	1.59	5.06
-20	-4	757	2582	651	1.79	6.10	423	1.95	8.61
-10	14	1176	4014	1012	2.35	8.01	501	2.29	13.51
0	32	1716	5856	1476	3.06	10.45	560	2.54	19.96
7.2	45	2185	7455	1879	3.74	12.76	584	2.65	25.70

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

-40	-40	171	583	147	0.68	2.30	253	1.15	2.12
-30	-22	362	1234	311	1.05	3.59	343	1.60	4.52
-20	-4	637	2173	548	1.43	4.89	444	2.07	8.02
-10	14	1006	3433	865	1.85	6.31	544	2.52	12.80
0	32	1479	5045	1272	2.35	8.00	630	2.90	19.07
7.2	45	1888	6441	1623	2.79	9.52	677	3.10	24.66