

Model
SC15CNX

Sales code:
104H8576

Compressor Data

Refrigerant(s)	R290
Refr. charge - tech. limit	150g / 5.29oz
Weight	13.10 kg / 28.88lbs
Displacement	15.28 cm3 / 0.93cu.in
Compressors on pallet	80



General – Configurations With SC15CNX

-	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, EAC
Starting torque	HST
Refrigerant	R290
Application	LBP+MBP
Hot gas defrost	OK
Long interval pull down	OK

Application Notes

- Provision for PE Grounding is located at the PE Stamp on the compressor

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Compressor Design

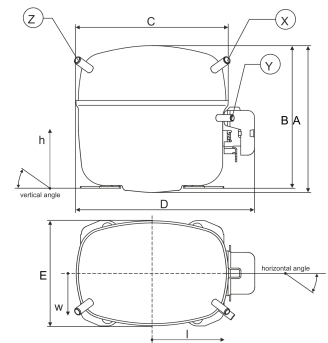
Oil type	POE	Winding resistance main	5.13 Ohm
Oil viscosity	32cSt	Winding resistance aux	13.51 Ohm
Oil quantity	506 / 17.11fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	1,410 cm³ / 47.68fl.oz	Max. discharge temp.	135°C / 275°F
Motor protection	internal		

Compressor Dimensions

Housing

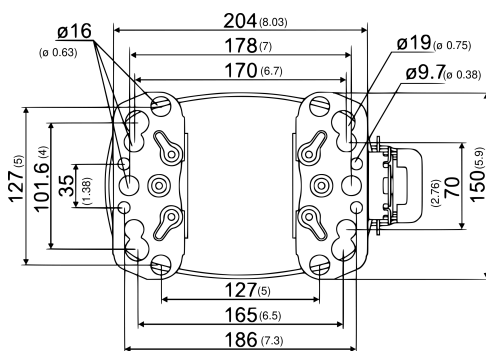
A Height	209mm / 8.23in
B Height	203mm / 7.99in
C Length shell	218mm / 8.58in
D Length w. cover	255mm / 10.04in
E Width	151mm / 5.94in

[Find 3D Model here](#)

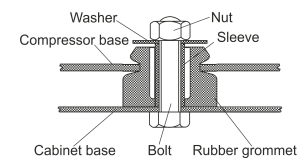


Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 9.54–9.72 / 0.38–0.38in	øi 6.41–6.59 / 0.25–0.26in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	143°
Vertical angle ±2°	30°	0°	150°
Position l/h/w [mm]	107/183/55 / 4.21/7.20/2.17in	115/100/63 / 4.53/3.94/2.48in	-107/183/55 / -4.21/7.20/2.17in
Straight tube l. [mm]	12 / 0.47in	12 / 0.47in	12 / 0.47in

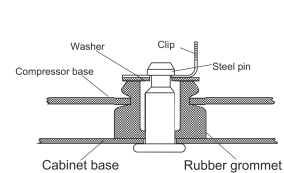
Mounting Accessories



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, EAC
Starting device type	relay
Run capacitor	10 μ F
Start capacitor	80 μ F
LRA (locked rotor amps / 4s/ U(N))	16.2 A
RLA (rated load amps / 1s/ U(N))	3.1 A
Cut in current (U(N))	16.2 A

Ambient/ machine room temperatures minimum /maximum

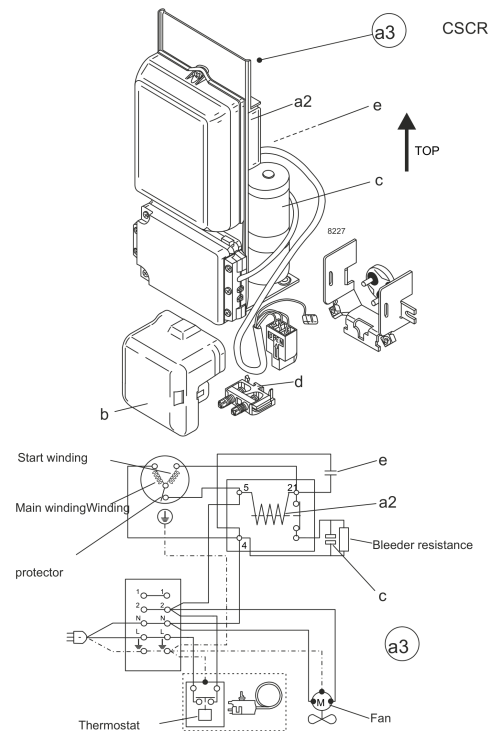
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



[View full size](#)

Components

a3 SC starter kit 117-7031

b plastic cover 103N2009

d cord relief 103N1004

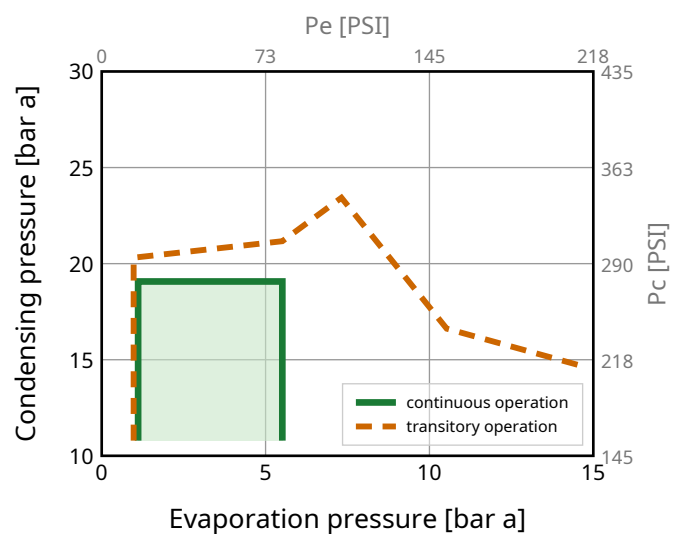
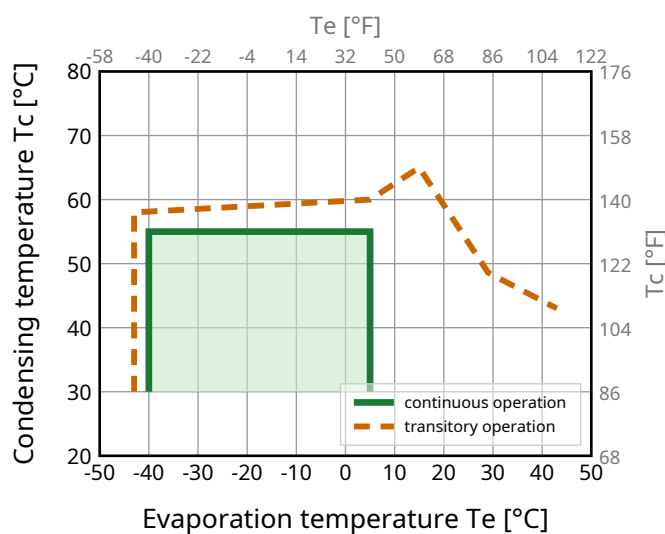
Alternative components

a2 potential relay (RVA 413340) 117-7426

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, 220 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	599	2042	515	1.36	4.63	441	2.16	6.08	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	434	1481	373	1.04	3.54	418	2.04	5.44	CECOMAF LBP
-35 -31	40 104	20 68	40 104	335	1143	288	1.03	3.51	325	1.60	3.84	EN12900 LBP
-6.7 20	54.4 129.9	35 95	46.1 115	1184	4039	1018	1.83	6.25	647	3.23	13.55	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	928	3167	798	1.52	5.20	609	3.03	11.80	CECOMAF MBP
-10 14	45 113	20 68	45 113	1051	3587	904	1.88	6.40	560	2.82	12.94	EN12900 MBP

Performance Tables

R290, 220 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	195	665	168	0.76	2.60	256	1.28	2.19
-30	-22	415	1415	357	1.12	3.83	370	1.82	4.68
-20	-4	707	2412	608	1.51	5.16	467	2.33	8.04
-10	14	1093	3730	940	1.95	6.66	560	2.82	12.55
0	32	1594	5439	1371	2.42	8.25	659	3.27	18.54
5	41	1894	6463	1629	2.65	9.05	714	3.49	22.20

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

-40	-40	104	353	89	0.53	1.82	195	0.98	1.29
-30	-22	309	1055	266	0.89	3.02	350	1.69	3.86
-20	-4	577	1969	496	1.19	4.07	484	2.37	7.26
-10	14	928	3167	798	1.52	5.20	609	3.03	11.80
0	32	1383	4720	1190	1.88	6.41	736	3.65	17.84
5	41	1656	5652	1425	2.06	7.04	803	3.96	21.55