

Model
SC12CNX

Sales code:
104H8265

Compressor Data

Refrigerant(s)	R290
Refr. charge - tech. limit	150g / 5.29oz
Weight	13.10 kg / 28.88lbs
Displacement	12.87 cm3 / 0.79cu.in
Compressors on pallet	80



General – Configurations With SC12CNX

-	Conf. 1
Motor configuration	CSCR
Power supply (nominal)	220-240 V/50 Hz
Number of phases	1
Voltage range	198-254 V
Approvals	VDE
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

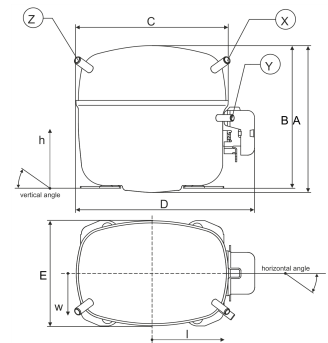
Oil type	POE	Winding resistance main	7.19 Ohm
Oil viscosity	32cSt	Winding resistance aux	27.23 Ohm
Oil quantity	506 / 17.11fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	1,410 cm ³ / 47.68fl.oz	Max. discharge temp.	130°C / 266°F
Motor protection	internal		

Compressor Dimensions

Housing

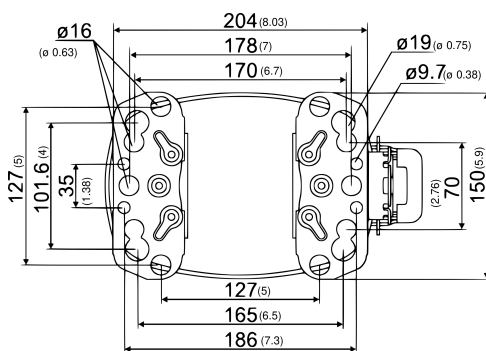
A Height	209mm / 8.23in
B Height	203mm / 7.99in
C Length shell	218mm / 8.58in
D Length w. cover	255mm / 10.04in
E Width	151mm / 5.94in

[Find 3D Model here](#)

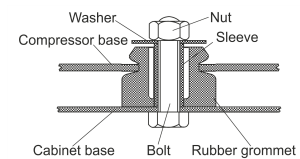


Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.11–6.29 / 0.24–0.25in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	143°
Vertical angle ±2°	30°	0°	150°
Position l/h/w [mm]	107/183/55 / 4.21/7.20/2.17in	115/100/63 / 4.53/3.94/2.48in	-107/183/55 / -4.21/7.20/2.17in
Straight tube l. [mm]	12 / 0.47in	12 / 0.47in	12 / 0.47in

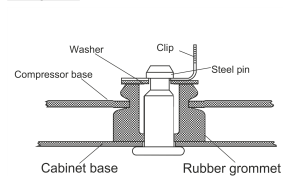
Mounting Accessories



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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Power supply (nominal)	220-240 V/50 Hz 1~
Refrigerant	R290
Application	LBP+MBP
Voltage range	198-254 V
Starting torque	HST
Approvals	VDE
Starting device type	relay
Run capacitor	5 μF
Start capacitor	40 μF
LRA (locked rotor amps / 4s/ U(N))	23.4 A
RLA (rated load amps / 1s/ U(N))	4.3 A
Cut in current (U(N))	23.4 A

Ambient/ machine room temperatures minimum /maximum

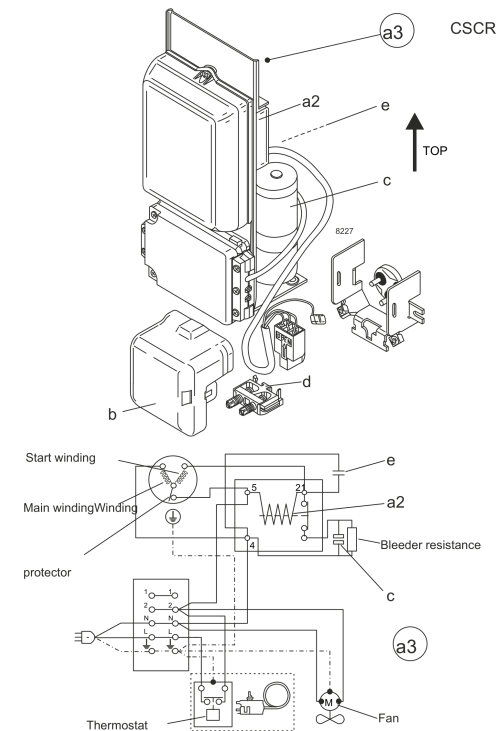
Ambient temperature range: 10 - 43°C / 50 - 109°F

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 117-7025

b plastic cover 103N2009

d cord relief 103N1004

Alternative components

a2 potential relay (RVA 6M3R 339) 117-7425

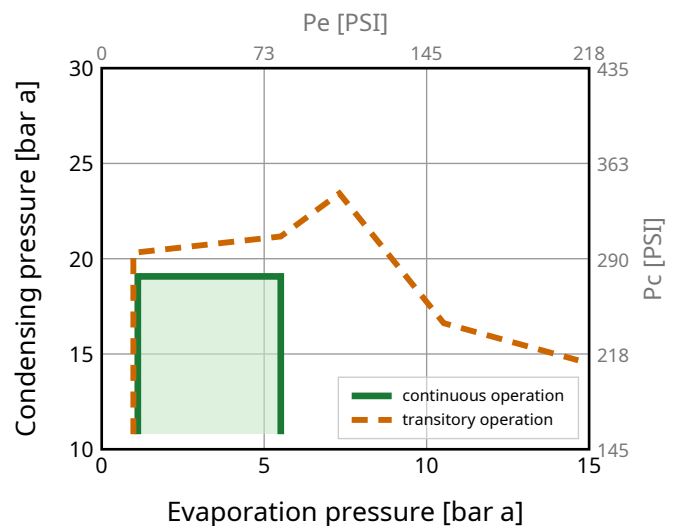
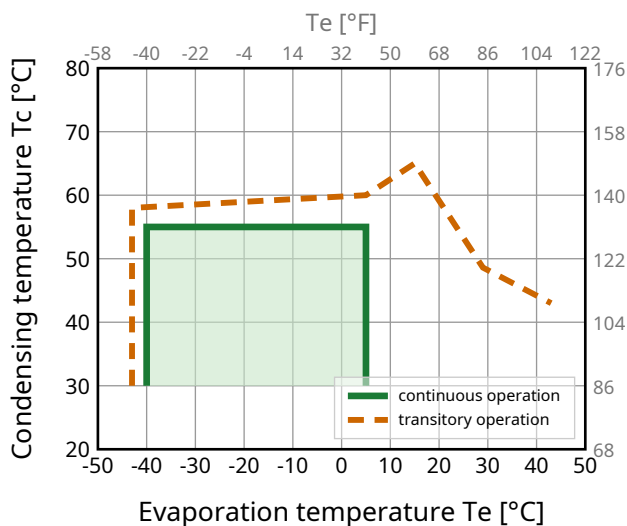
e run capacitor (5 μ F, 6.3mm) 117-7111

c start capacitor (40 μ F, 6.3mm) 117U5372

b plastic cover 103N2009

d cord relief 103N1004

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	476	1626	410	1.32	4.49	362	1.86	4.84	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	351	1196	302	1.01	3.46	346	1.79	4.39	CECOMAF LBP
-35 -31	40 104	20 68	40 104	270	923	233	1.01	3.43	269	1.44	3.10	EN12900 LBP
-6.7 20	54.4 129.9	35 95	46.1 115	924	3153	795	1.80	6.13	514	2.56	10.58	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	720	2457	619	1.49	5.07	485	2.42	9.16	CECOMAF MBP
-10 14	45 113	20 68	45 113	814	2778	700	1.79	6.10	456	2.27	10.02	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	178	608	153	0.77	2.64	230	1.28	2.00
-30	-22	331	1130	285	1.08	3.68	307	1.59	3.74
-20	-4	540	1842	464	1.42	4.84	381	1.92	6.14
-10	14	846	2888	728	1.86	6.34	456	2.27	9.72
0	32	1293	4412	1112	2.42	8.25	535	2.63	15.04
5	41	1582	5398	1361	2.74	9.36	576	2.81	18.54

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

-40	-40	104	355	90	0.51	1.75	203	1.19	1.29
-30	-22	262	893	225	0.88	2.99	299	1.59	3.27
-20	-4	453	1546	390	1.16	3.94	392	2.00	5.70
-10	14	720	2457	619	1.49	5.07	485	2.42	9.16
0	32	1105	3772	951	1.91	6.50	580	2.87	14.26
5	41	1356	4625	1166	2.15	7.34	630	3.09	17.63