

Model
SC10CNX

Sales code:
104H8065

Compressor Data

Refrigerant(s)	R290
Refr. charge - tech. limit	150g / 5.29oz
Weight	13.10 kg / 28.88lbs
Displacement	10.29 cm3 / 0.63cu.in
Compressors on pallet	80



General - Configurations With SC10CNX

-	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

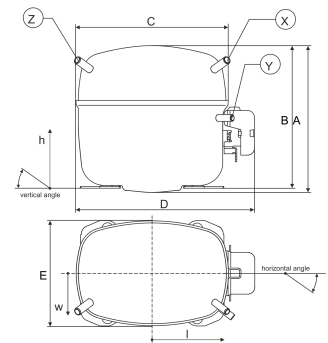
Oil type	POE	Winding resistance main	7.19 Ohm
Oil viscosity	32cSt	Winding resistance aux	27.23 Ohm
Oil quantity	499 / 16.87fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	1,410 cm ³ / 47.68fl.oz	Max. discharge temp.	120°C / 248°F
Motor protection	internal		

Compressor Dimensions

Housing

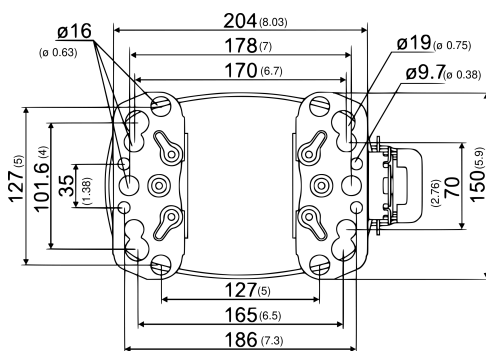
A Height	209mm / 8.23in
B Height	203mm / 7.99in
C Length shell	218mm / 8.58in
D Length w. cover	255mm / 10.04in
E Width	151mm / 5.94in

[Find 3D Model here](#)

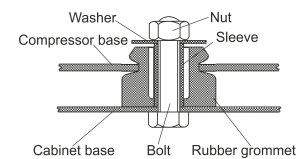


Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.11–6.29 / 0.24–0.25in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	143°
Vertical angle ±2°	30°	0°	150°
Position l/h/w [mm]	107/183/55 / 4.21/7.20/2.17in	115/100/63 / 4.53/3.94/2.48in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

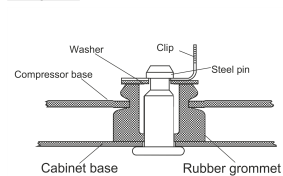
Mounting Accessories



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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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
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

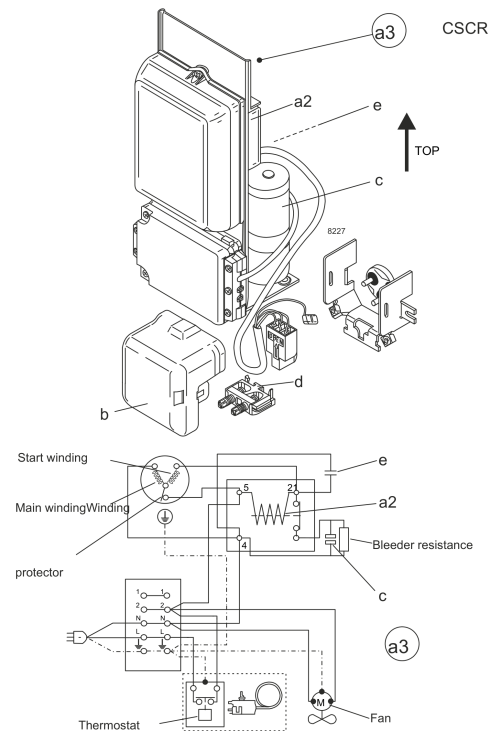
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

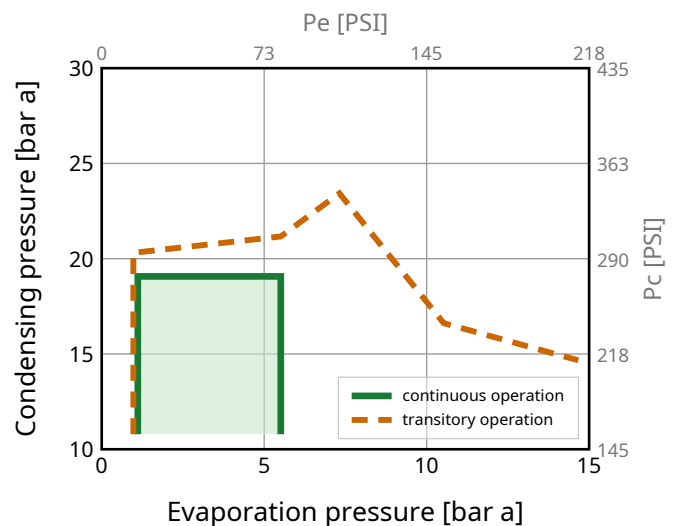
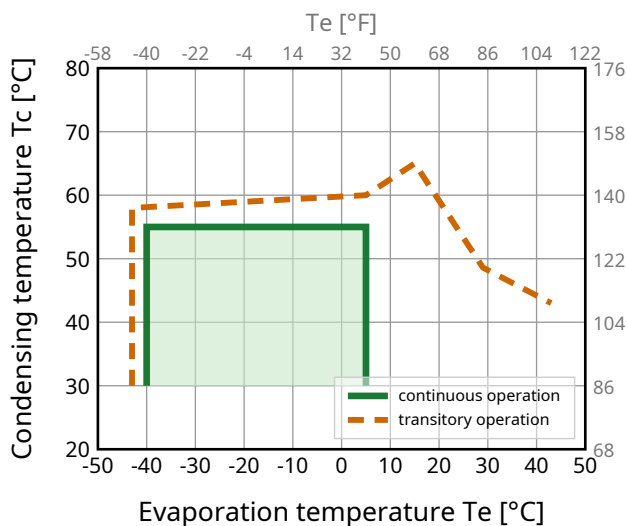
e run capacitor (5 μ F, 6.3mm) 117-7111

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	359	1226	309	1.27	4.33	283	1.50	3.65	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	263	898	226	0.98	3.33	270	1.46	3.30	CECOMAF LBP
-35 -31	40 104	20 68	40 104	197	673	170	0.93	3.16	213	1.23	2.26	EN12900 LBP
-6.7 20	54.4 129.9	35 95	46.1 115	712	2428	612	1.79	6.10	398	1.96	8.15	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	555	1894	477	1.47	5.02	377	1.87	7.06	CECOMAF MBP
-10 14	45 113	20 68	45 113	635	2168	546	1.75	5.99	362	1.78	7.82	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	126	430	108	0.72	2.47	174	1.12	1.42
-30	-22	245	837	211	1.01	3.46	242	1.33	2.77
-20	-4	420	1431	361	1.37	4.68	306	1.55	4.77
-10	14	660	2254	568	1.82	6.23	362	1.78	7.58
0	32	979	3341	842	2.41	8.23	406	2.00	11.39
5	41	1172	3997	1007	2.77	9.46	422	2.12	13.73

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

-40	-40	99	337	85	0.63	2.14	158	1.05	1.23
-30	-22	196	669	169	0.84	2.88	232	1.32	2.45
-20	-4	344	1175	296	1.12	3.83	307	1.59	4.34
-10	14	555	1894	477	1.47	5.02	377	1.87	7.06
0	32	839	2864	722	1.91	6.53	439	2.16	10.82
5	41	1013	3455	871	2.18	7.43	465	2.30	13.17