

Model

SC18CNX

Sales code:

104H8865

Compressor Data

Refrigerant(s)	R290
Refr. charge - tech. limit	150g / 5.29oz
Weight	13.10 kg / 28.88lbs
Displacement	17.69 cm3 / 1.08cu.in
Compressors on pallet	80



General – Configurations With SC18CNX

-	Conf. 1
Motor configuration	CSCR
Power supply (nominal)	220-240 V/50 Hz
Number of phases	1
Voltage range	198-254 V
Approvals	CCC, 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	4.500 Ohm
Oil viscosity	32cSt	Winding resistance aux	17.20 Ohm
Oil quantity	550 / 18.60fl.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

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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]	107/183/55 / 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

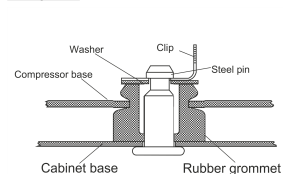
Mounting Accessories



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	CCC, VDE
Starting device type	relay
Run capacitor	10 μ F
Start capacitor	80 μ F
RLA (rated load amps / 1s/ U(N))	-/-A

Ambient/ machine room temperatures minimum /maximum

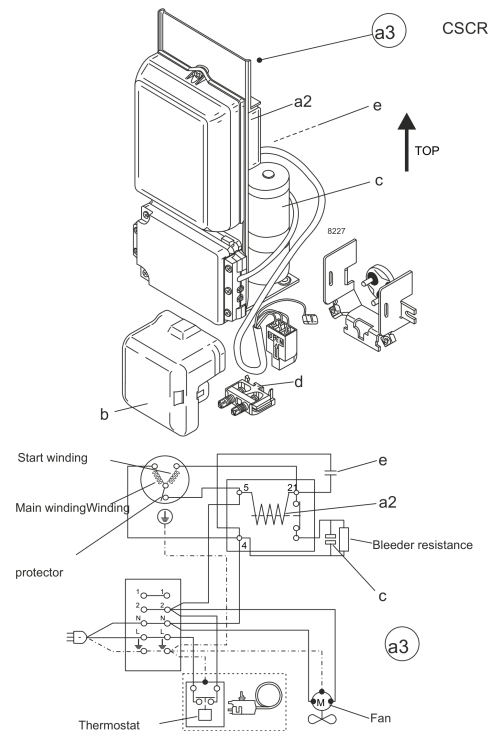
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



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Components

a3 SC starter kit 117-7052

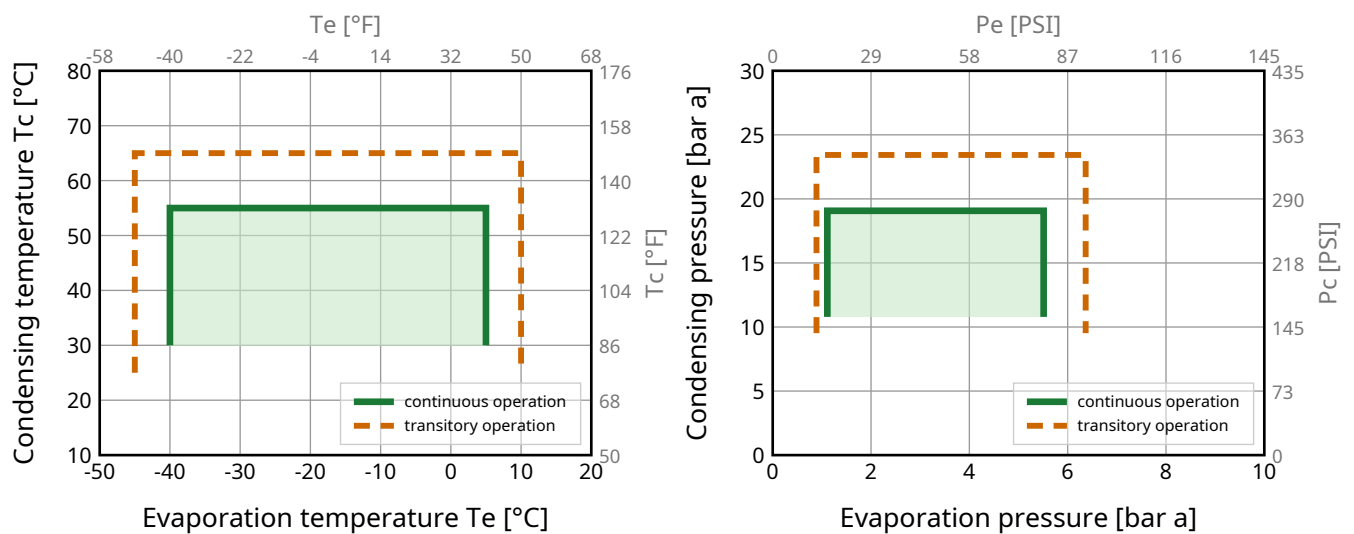
b plastic cover 103N2009

d cord relief 103N1004

Alternative components

a3 SC starter kit 117-9718

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	730	2490	628	1.36	4.65	536	2.72	7.42	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	534	1822	459	1.05	3.58	510	2.61	6.70	CECOMAF LBP
-35 -31	40 104	20 68	40 104	379	1292	326	1.00	3.42	378	2.10	4.35	EN12900 LBP
-6.7 20	54.4 129.9	35 95	46.1 115	1412	4816	1214	1.74	5.95	810	3.71	16.16	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	1114	3802	958	1.48	5.03	756	3.53	14.17	CECOMAF MBP
-10 14	45 113	20 68	45 113	1224	4176	1053	1.73	5.91	707	3.32	15.06	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	219	747	188	0.72	2.46	304	1.80	2.46
-30	-22	480	1637	413	1.10	3.77	435	2.34	5.42
-20	-4	824	2810	708	1.45	4.96	566	2.85	9.37
-10	14	1272	4341	1094	1.80	6.14	707	3.32	14.61
0	32	1849	6310	1590	2.14	7.30	864	3.76	21.50
5	41	2193	7483	1886	2.30	7.86	952	3.97	25.70

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

-40	-40	137	468	118	0.50	1.71	274	1.63	1.70
-30	-22	385	1314	331	0.89	3.05	431	2.29	4.81
-20	-4	703	2400	605	1.19	4.07	589	2.93	8.85
-10	14	1114	3802	958	1.48	5.03	756	3.53	14.17
0	32	1641	5598	1411	1.75	5.96	938	4.10	21.16
5	41	1954	6668	1681	1.88	6.42	1039	4.37	25.42