

Model

SC18CNLX.2

Sales code:

104H8877

Compressor Data

Refrigerant(s)	R290
Refr. charge - tech. limit	150g / 5.29oz
Weight	13.80 kg / 30.42lbs
Displacement	17.69 cm3 / 1.08cu.in
Compressors on pallet	80



General – Configurations With SC18CNLX.2

-	Conf. 1
Motor configuration	CSCR
Power supply (nominal)	208-230 V/60 Hz
Number of phases	1
Voltage range	198-254 V
Approvals	UL
Starting torque	HST
Refrigerant	R290
Application	LBP
Hot gas defrost	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	3.300 Ohm
Oil viscosity	32cSt	Winding resistance aux	14.00 Ohm
Oil quantity	550 / 18.60fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	1,460 cm ³ / 49.37fl.oz	Max. discharge temp.	135°C / 275°F
Motor protection	internal		

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

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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]	107/193/55 / 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

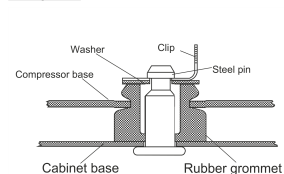
Mounting Accessories



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)	208-230 V/60 Hz 1~
Refrigerant	R290
Application	LBP
Voltage range	198-254 V
Starting torque	HST
Approvals	UL
Starting device type	relay
Run capacitor	10 μF
Start capacitor	80 μF
LRA (locked rotor amps / 4s/ U(N))	23.6 A
RLA (rated load amps / 1s/ U(N))	4 A

Ambient/ machine room temperatures minimum /maximum

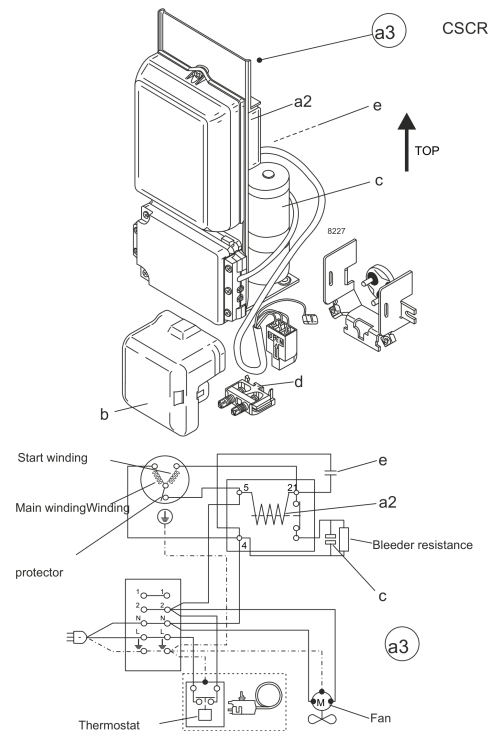
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



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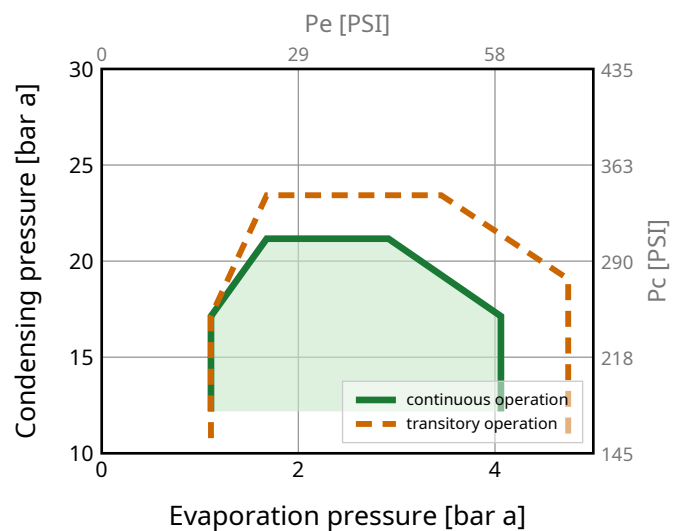
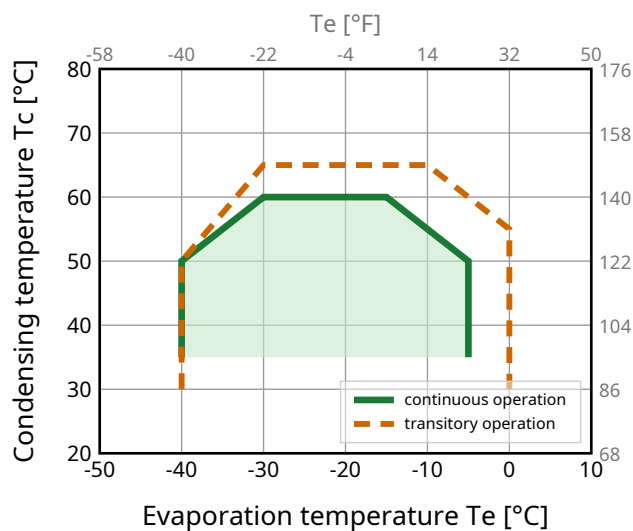
Components

a3 SC starter kit (550mm) 117-7039

b plastic cover 103N2008

d cord relief 103N1004

Operation Pressure Range



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Standard Conditions

R290, 230 V/60 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	925	3156	795	1.46	4.98	634	2.94	9.39	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	691	2358	594	1.12	3.84	614	2.85	8.66	CECOMAF LBP
-35 -31	40 104	20 68	40 104	505	1724	434	1.22	4.16	415	2.02	5.80	EN12900 LBP
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	761	2597	655	1.21	4.14	628	2.91	10.57	ARI540 LBP
-23.3 -10	40.6 105.1	32.2 90	32.2 90	1010	3444	868	1.66	5.66	609	2.75	10.25	AHAM LBP
-25 -13	45 113	32 89.6	45 113	822	2806	707	1.38	4.71	596	2.73	9.32	opt LBP

Performance Tables

R290, 230 V/60 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	282	963	243	0.78	2.66	362	1.68	3.17
-35	-31	471	1606	405	1.06	3.61	445	2.06	5.30
-30	-22	646	2205	556	1.24	4.21	524	2.42	7.30
-25	-13	822	2806	707	1.38	4.71	596	2.73	9.32
-20	-4	1012	3453	870	1.53	5.23	661	3.01	11.51
-15	5	1229	4193	1057	1.72	5.86	716	3.23	14.04
-10	14	1486	5070	1278	1.96	6.68	759	3.40	17.06
-5	23	1796	6129	1545	2.27	7.76	790	3.51	20.75

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

-40	-40	174	593	150	0.40	1.35	439	1.94	2.16
-35	-31	367	1252	316	0.74	2.52	497	2.26	4.57
-30	-22	535	1825	460	0.96	3.29	556	2.57	6.68
-25	-13	691	2358	594	1.12	3.84	614	2.85	8.66
-20	-4	848	2895	730	1.26	4.31	671	3.10	10.68
-15	5	1021	3483	878	1.41	4.81	724	3.32	12.91
-10	14	1221	4166	1050	1.58	5.39	772	3.50	15.53
-5	23	1462	4989	1257	1.80	6.14	813	3.63	18.72