

Model

SC18G

Sales code:

104G8823

Compressor Data

Refrigerant(s)	R134a
Refr. charge - tech. limit	1300g / 45.86oz
Weight	13.60 kg / 29.98lbs
Displacement	17.69 cm3 / 1.08cu.in
Compressors on pallet	80



General – Configurations With SC18G

-	Conf. 1
Motor configuration	CSCR
Power supply (nominal)	208-230 V/60 Hz
Number of phases	1
Voltage range	187-254 V
Approvals	UL, KC
Starting torque	HST
Refrigerant	R134a
Application	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	3.500 Ohm
Oil viscosity	22cSt	Winding resistance aux	12.90 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 10.11–10.29 / 0.40–0.41in	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

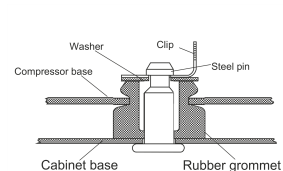
Mounting Accessories



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	R134a
Application	MBP
Voltage range	187-254 V
Starting torque	HST
Approvals	UL, KC
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

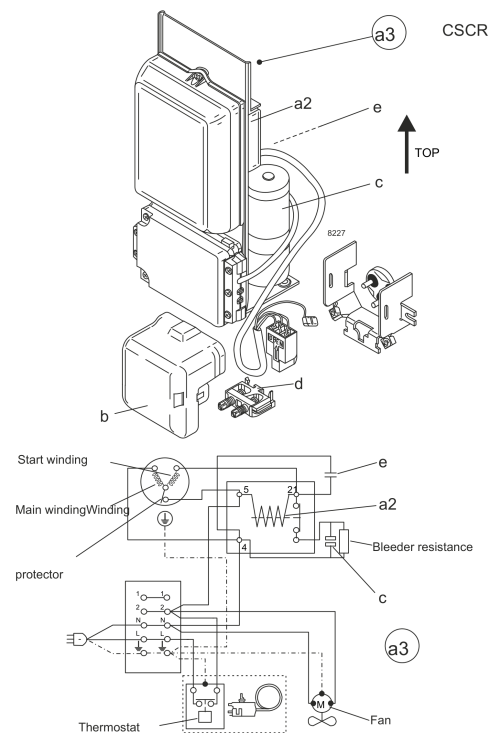
Ambient temperature range: 10 - 43°C / 50 - 109°F

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 (550mm) 117-7039

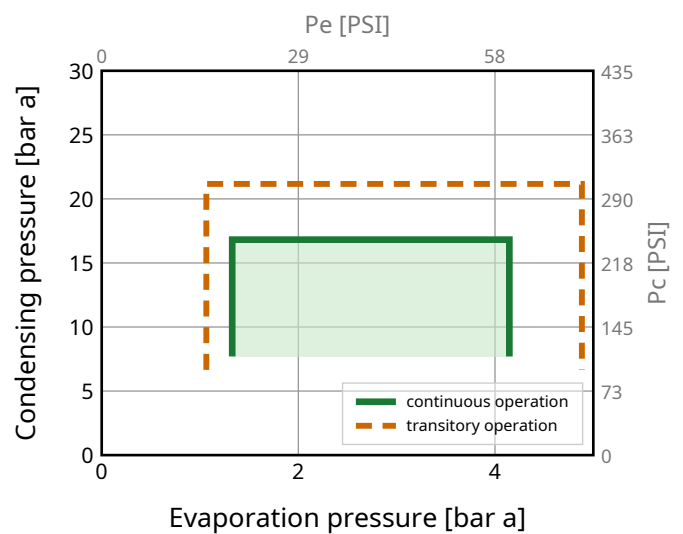
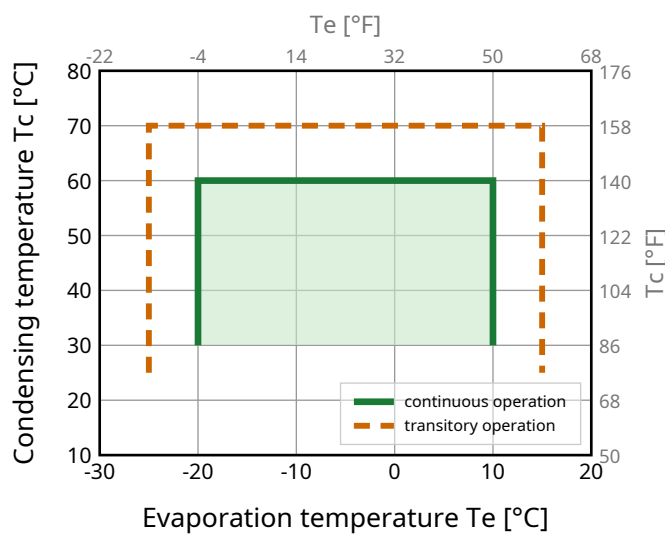
b plastic cover 103N2008

d cord relief 103N1004

Alternative components

a3 SC starter kit (1000mm) 117-7043

Operation Pressure Range



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Standard Conditions

R134a, 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]	
-6.7 20	54.4 129.9	35 95	46.1 115	975	3325	838	1.76	6.01	553	2.65	21.22	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	745	2542	641	1.46	4.97	512	2.45	17.96	CECOMAF MBP
-10 14	45 113	20 68	45 113	874	2981	751	1.76	6.01	496	2.42	20.37	EN12900 MBP
-6.7 20	48.8 119.8	18.3 64.9	48.8 119.8	948	3235	815	1.75	5.97	541	2.62	23.30	ARI540 MBP
-10 14	45 113	32 89.6	45 113	905	3088	778	1.82	6.22	496	2.42	19.76	opt MBP
-23.3 -10	45 113	32.2 90	32.2 90	493	1683	424	1.41	4.80	351	1.76	9.57	opt LBP

Performance Tables

R134a, 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]
-20	-4	536	1828	461	1.39	4.75	384	1.93	11.62
-15	5	702	2397	604	1.60	5.46	439	2.17	15.28
-10	14	905	3088	778	1.82	6.22	496	2.42	19.76
-5	23	1148	3917	987	2.07	7.08	554	2.66	25.19
0	32	1437	4902	1236	2.36	8.05	609	2.90	31.70
5	41	1776	6060	1527	2.69	9.17	661	3.13	39.45
10	50	2171	7408	1867	3.08	10.50	706	3.37	48.60

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

-20	-4	432	1475	372	1.10	3.76	393	1.83	10.34
-15	5	572	1953	492	1.27	4.35	450	2.14	13.74
-10	14	745	2542	641	1.46	4.97	512	2.45	17.96
-5	23	955	3257	821	1.66	5.65	577	2.75	23.14
0	32	1207	4117	1038	1.88	6.40	643	3.05	29.43
5	41	1506	5139	1295	2.13	7.26	708	3.35	37.00
10	50	1858	6341	1598	2.41	8.24	770	3.65	46.04