

Model

SC10GHH

Sales code:

104G8071

Compressor Data

Refrigerant(s)	R134a
Refr. charge - tech. limit	1300g / 45.86oz
Weight	12.50 kg / 27.56lbs
Displacement	10.29 cm3 / 0.63cu.in
Compressors on pallet	80



General – Configurations With SC10GHH

-	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	R134a
Application	HBP
Hot gas defrost	OK
Long interval pull down	OK

Application Notes

- Compressor with oil cooler.
- Provision for PE Grounding is located at the PE Stamp on the compressor

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Compressor Design

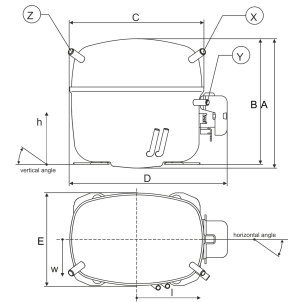
Oil type	POE OC	Winding resistance main	10.600 Ohm
Oil viscosity	22cSt	Winding resistance aux	35.70 Ohm
Oil quantity	449 / 15.18fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	1,460 cm³ / 49.37fl.oz	Max. discharge temp.	135°C / 275°F
Motor protection	internal		

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 8.11–8.29 / 0.32–0.33in	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

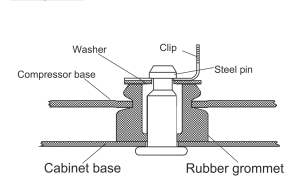
Mounting Accessories



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	R134a
Application	HBP
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

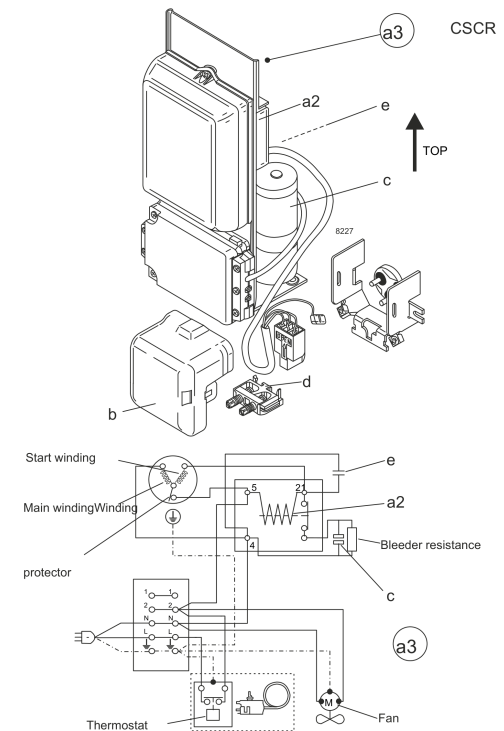
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

oil cooled

Electrical Accessories / Wiring Diagram



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Components

a3 SC starter kit 117-7025

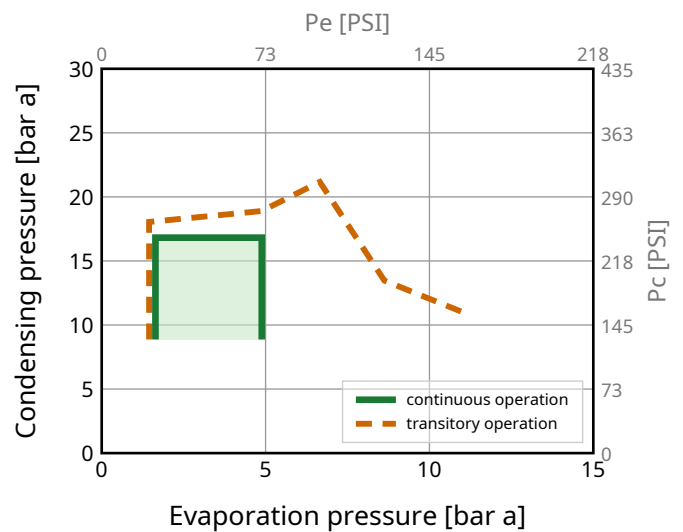
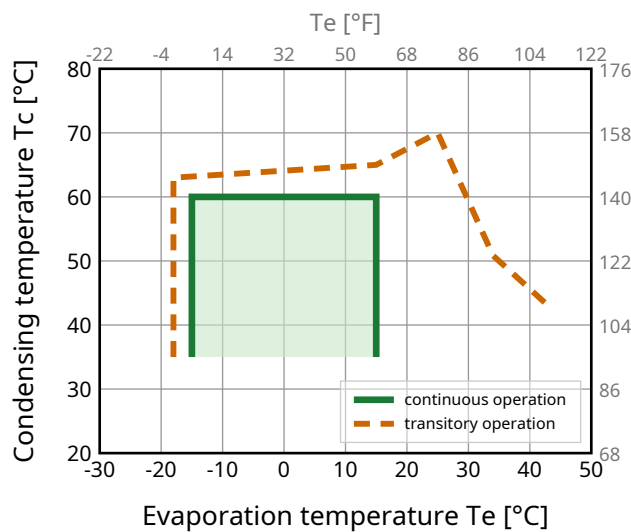
b plastic cover 103N2009

d cord relief 103N1004

Alternative components

a3 SC starter kit 117-7014

Operation Pressure Range



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Standard Conditions

R134a, 220 V/50 Hz, CSCR, oil cooled

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]	
7.2 45	54.4 129.9	35 95	46.1 115	930	3174	800	2.62	8.94	355	1.58	20.59	ASHRAE HBP
5 41	55 131	32 89.6	55 131	762	2600	655	2.21	7.53	345	1.53	18.72	CECOMAF HBP
5 41	50 122	20 68	50 122	797	2718	685	2.41	8.23	330	1.47	19.98	EN12900 HBP
-6.7 20	54.4 129.9	35 95	46.1 115	472	1610	406	1.69	5.77	279	1.23	10.27	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	352	1201	303	1.35	4.62	260	1.15	8.49	CECOMAF MBP
-10 14	45 113	20 68	45 113	425	1450	365	1.68	5.74	253	1.11	9.91	EN12900 MBP

Performance Tables

R134a, 220 V/50 Hz, CSCR, oil cooled

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]
-15	5	328	1119	282	1.42	4.85	231	1.03	7.14
-10	14	440	1501	378	1.74	5.94	253	1.11	9.61
-5	23	574	1958	494	2.09	7.14	274	1.20	12.59
0	32	730	2489	627	2.48	8.45	295	1.30	16.10
5	41	907	3095	780	2.89	9.85	314	1.39	20.14
10	50	1106	3774	951	3.33	11.37	332	1.48	24.76
15	59	1327	4528	1141	3.81	13.01	348	1.55	29.98

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

-15	5	259	884	223	1.12	3.84	230	1.03	6.22
-10	14	352	1201	303	1.35	4.62	260	1.15	8.49
-5	23	467	1593	402	1.61	5.50	290	1.27	11.32
0	32	604	2060	519	1.90	6.48	318	1.41	14.72
5	41	762	2600	655	2.21	7.53	345	1.53	18.72
10	50	942	3215	810	2.54	8.66	371	1.66	23.34
15	59	1144	3903	984	2.90	9.88	395	1.77	28.63