

Model

SC15GHH

Sales code:

104G8571

Compressor Data

Refrigerant(s)	R134a
Refr. charge - tech. limit	1300g / 45.86oz
Weight	13.00 kg / 28.66lbs
Displacement	15.28 cm3 / 0.93cu.in
Compressors on pallet	80



General – Configurations With SC15GHH

-	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

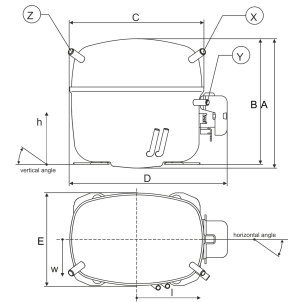
Oil type	POE OC	Winding resistance main	5.100 Ohm
Oil viscosity	22cSt	Winding resistance aux	13.50 Ohm
Oil quantity	449 / 15.18fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	1,540 cm ³ / 52.07fl.oz	Max. discharge temp.	135°C / 275°F
Motor protection	internal		

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

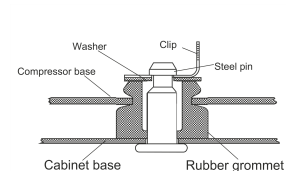
Mounting Accessories



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	10 µF
Start capacitor	80 µF
LRA (locked rotor amps / 4s/ U(N))	16.2 A
RLA (rated load amps / 1s/ U(N))	3.1 A
Cut in current (U(N))	16.2 A

Ambient/ machine room temperatures minimum /maximum

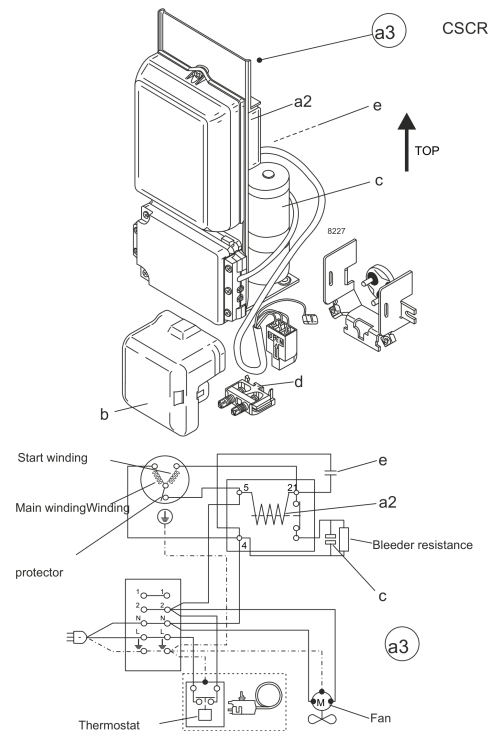
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

oil cooled

Electrical Accessories / Wiring Diagram



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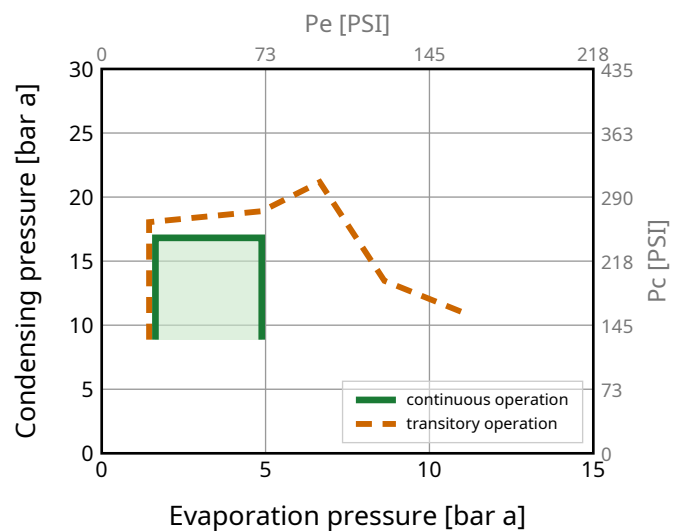
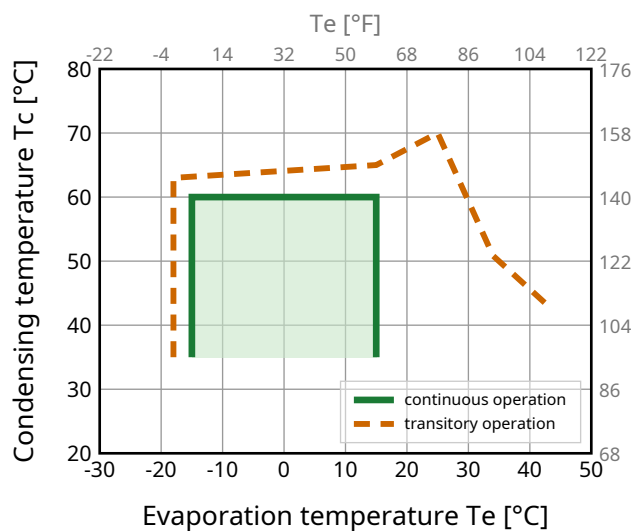
Components

a3 SC starter kit (550mm) 117-7027

b plastic cover 103N2009

d cord relief 103N1004

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	1472	5023	1266	2.56	8.75	574	2.51	32.59	ASHRAE HBP
5 41	55 131	32 89.6	55 131	1207	4117	1038	2.15	7.35	560	2.45	29.64	CECOMAF HBP
5 41	50 122	20 68	50 122	1263	4308	1086	2.41	8.21	524	2.31	31.67	EN12900 HBP
-6.7 20	54.4 129.9	35 95	46.1 115	767	2617	660	1.74	5.93	441	1.95	16.70	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	576	1965	495	1.41	4.81	408	1.81	13.89	CECOMAF MBP
-10 14	45 113	20 68	45 113	684	2336	589	1.79	6.11	382	1.70	15.96	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	539	1839	464	1.57	5.36	343	1.53	11.73
-10	14	709	2419	610	1.85	6.33	382	1.70	15.48
-5	23	910	3106	783	2.16	7.37	421	1.87	19.97
0	32	1148	3918	988	2.52	8.58	456	2.02	25.34
5	41	1429	4875	1229	2.95	10.06	485	2.14	31.73
10	50	1757	5994	1511	3.50	11.93	502	2.21	39.32
15	59	2138	7296	1839	4.22	14.42	506	2.23	48.31

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

-15	5	420	1433	361	1.17	4.00	359	1.59	10.08
-10	14	576	1965	495	1.41	4.81	408	1.81	13.89
-5	23	755	2577	650	1.64	5.60	461	2.03	18.31
0	32	964	3288	829	1.88	6.42	512	2.25	23.50
5	41	1207	4117	1038	2.15	7.35	560	2.45	29.64
10	50	1490	5083	1281	2.48	8.48	600	2.62	36.91
15	59	1818	6203	1563	2.89	9.87	629	2.74	45.50