

Model

SC18GH

Sales code:

104G8860

Compressor Data

Refrigerant(s)	R134a
Refr. charge - tech. limit	1300g / 45.86oz
Weight	13.50 kg / 29.76lbs
Displacement	17.69 cm3 / 1.08cu.in
Compressors on pallet	80



General – Configurations With SC18GH

-	Conf. 1
Motor configuration	CSIR
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

- 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	3.700 Ohm
Oil viscosity	22cSt	Winding resistance aux	13.70 Ohm
Oil quantity	500 / 16.91fl.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	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 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]	107/193/55 / 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

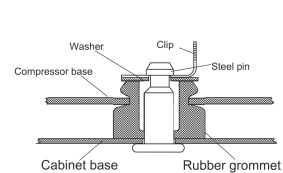
Mounting Accessories



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	CSIR
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	-/-
Start capacitor	80 µF
RLA (rated load amps / 1s/ U(N))	-/-A

Ambient/ machine room temperatures minimum /maximum

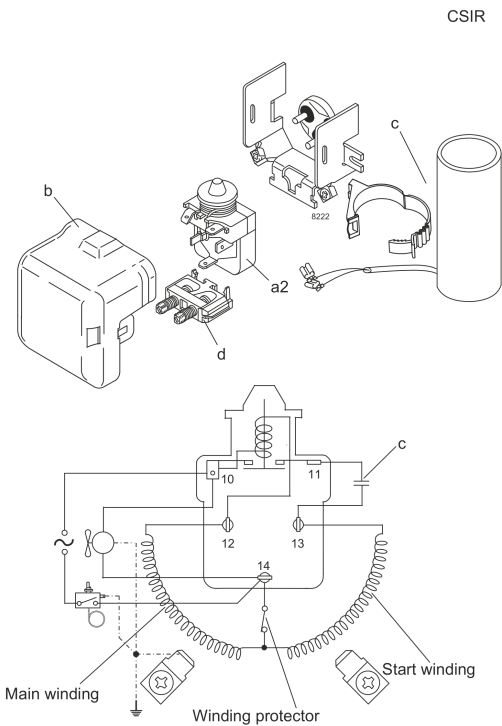
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



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Components

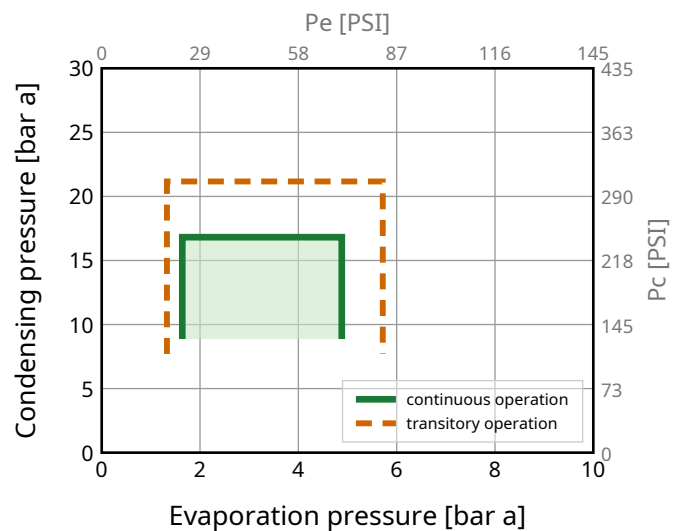
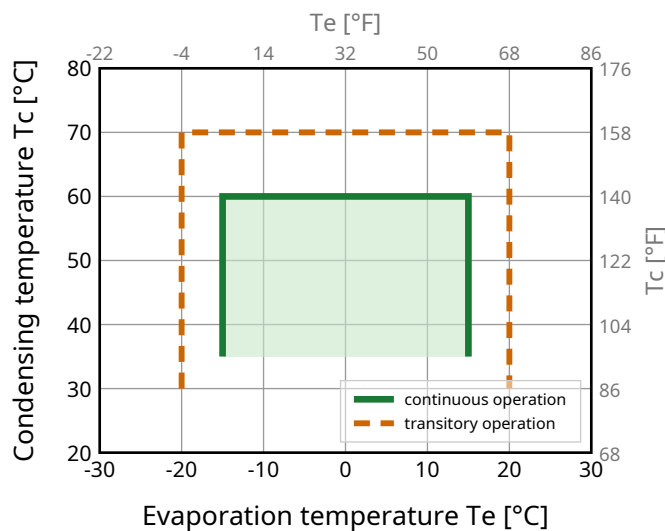
a2 relay 117U6019

c start capacitor (80µF) 117U5017

d cord relief 103N1004

b plastic cover 103N2009

Operation Pressure Range



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Standard Conditions

R134a, 220 V/50 Hz, CSIR, 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]	
7.2 45	54.4 129.9	35 95	46.1 115	1630	5562	1402	2.27	7.74	719	3.95	36.08	ASHRAE HBP
5 41	55 131	32 89.6	55 131	1340	4572	1152	1.92	6.56	697	3.85	32.92	CECOMAF HBP
5 41	50 122	20 68	50 122	1399	4774	1203	2.12	7.23	660	3.72	35.09	EN12900 HBP
-6.7 20	54.4 129.9	35 95	46.1 115	874	2983	752	1.61	5.51	542	3.27	19.04	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	676	2305	581	1.36	4.63	498	3.13	16.29	CECOMAF MBP
-10 14	45 113	20 68	45 113	773	2638	665	1.65	5.62	470	3.04	18.03	EN12900 MBP

Performance Tables

R134a, 220 V/50 Hz, CSIR, 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]
-15	5	624	2129	537	1.52	5.18	411	2.87	13.58
-10	14	801	2732	689	1.71	5.82	470	3.04	17.49
-5	23	1020	3480	877	1.94	6.63	525	3.22	22.38
0	32	1281	4370	1101	2.22	7.57	577	3.40	28.26
5	41	1583	5401	1361	2.53	8.62	627	3.60	35.16
10	50	1926	6571	1656	2.86	9.74	674	3.79	43.11
15	59	2309	7879	1986	3.21	10.94	720	4.00	52.17

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

-15	5	539	1839	464	1.27	4.33	425	2.90	12.94
-10	14	676	2305	581	1.36	4.63	498	3.13	16.29
-5	23	855	2917	735	1.51	5.14	567	3.36	20.72
0	32	1077	3674	926	1.70	5.80	634	3.60	26.25
5	41	1340	4572	1152	1.92	6.56	697	3.85	32.92
10	50	1645	5612	1414	2.17	7.40	758	4.11	40.75
15	59	1990	6790	1711	2.44	8.31	817	4.38	49.81