

Model
SC15G

Sales code:
104G8525

Compressor Data

Refrigerant(s)	R134a
Refr. charge - tech. limit	1300g / 45.86oz
Weight	13.70 kg / 30.20lbs
Displacement	15.28 cm3 / 0.93cu.in
Compressors on pallet	80



General – Configurations With SC15G

-	Conf. 1	Conf. 2
Motor configuration	CSIR	CSIR
Power supply (nominal)	220-240 V/50 Hz	208-230 V/60 Hz
Number of phases	1	1
Voltage range	187-254 V	198-254 V
Approvals	VDE, CCC, KC	VDE, CCC, KC
Starting torque	HST	HST
Refrigerant	R134a	R134a
Application	LBP+MBP+HBP	LBP
Hot gas defrost	OK	OK
Long interval pull down	OK	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	5.100 Ohm
Oil viscosity	22cSt	Winding resistance aux	13.50 Ohm
Oil quantity	554 / 18.73fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	1,410 cm ³ / 47.68fl.oz	Max. discharge temp.	130°C / 266°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 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]	107/183/55 / 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

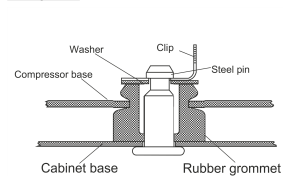
Mounting Accessories



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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Configuration 1

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Configuration

Motor configuration	CSIR
Power supply (nominal)	220-240 V/50 Hz 1~
Refrigerant	R134a
Application	LBP+MBP+HBP
Voltage range	187-254 V
Starting torque	HST
Approvals	VDE, CCC, KC
Starting device type	relay
Run capacitor	-/-
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

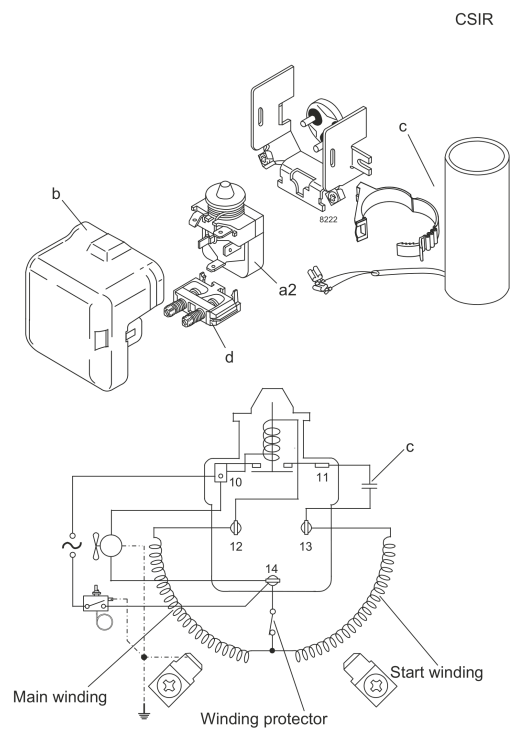
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



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Components

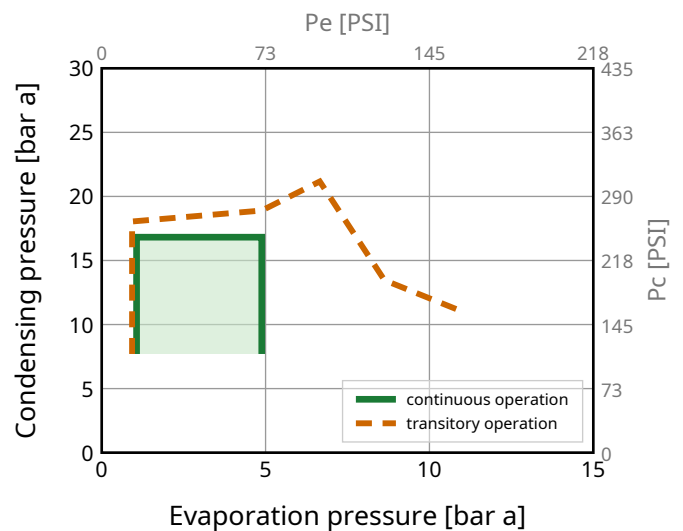
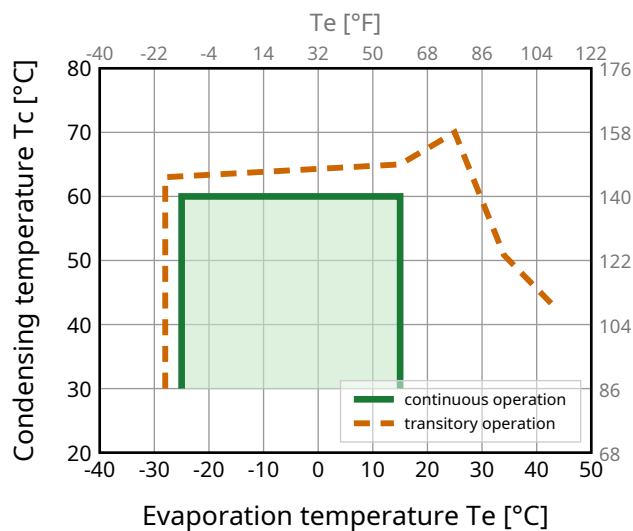
a2 relay 117U6005

c start capacitor (80µF) 117U5017

d cord relief 103N1004

b plastic cover 103N2009

Operation Pressure Range



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Configuration 1

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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]	
-25 -13	55 131	32 89.6	55 131	214	730	184	0.83	2.83	258	2.21	5.10	CECOMAF LBP
-35 -31	40 104	20 68	40 104	142	483	122	0.77	2.61	185	1.95	3.10	EN12900 LBP
-10 14	55 131	32 89.6	55 131	566	1931	487	1.30	4.43	436	2.78	13.65	CECOMAF MBP
-10 14	45 113	20 68	45 113	645	2202	555	1.58	5.41	407	2.66	15.05	EN12900 MBP
5 41	55 131	32 89.6	55 131	1112	3794	956	1.86	6.35	597	3.42	27.31	CECOMAF HBP
5 41	50 122	20 68	50 122	1157	3947	995	2.01	6.86	575	3.30	29.02	EN12900 HBP

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]
-25	-13	272	927	234	1.08	3.70	251	2.19	5.88
-20	-4	380	1297	327	1.27	4.33	299	2.33	8.24
-10	14	668	2281	575	1.64	5.60	407	2.66	14.60
0	32	1060	3617	912	2.07	7.07	512	3.01	23.39
10	50	1564	5338	1345	2.64	9.01	592	3.39	35.02
15	59	1862	6353	1601	3.02	10.31	616	3.59	42.06

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

-25	-13	214	730	184	0.83	2.83	258	2.21	5.10
-20	-4	312	1064	268	0.99	3.38	315	2.40	7.46
-10	14	566	1931	487	1.30	4.43	436	2.78	13.65
0	32	906	3093	780	1.65	5.62	550	3.20	22.10
10	50	1343	4581	1155	2.12	7.22	634	3.64	33.26
15	59	1600	5457	1376	2.43	8.28	659	3.88	40.04

Model

SC15G

Configuration 2

Sales code:

104G8525

Configuration

Motor configuration	CSIR
Power supply (nominal)	208-230 V/60 Hz 1~
Refrigerant	R134a
Application	LBP
Voltage range	198-254 V
Starting torque	HST
Approvals	VDE, CCC, KC
Starting device type	relay
Run capacitor	-/-
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

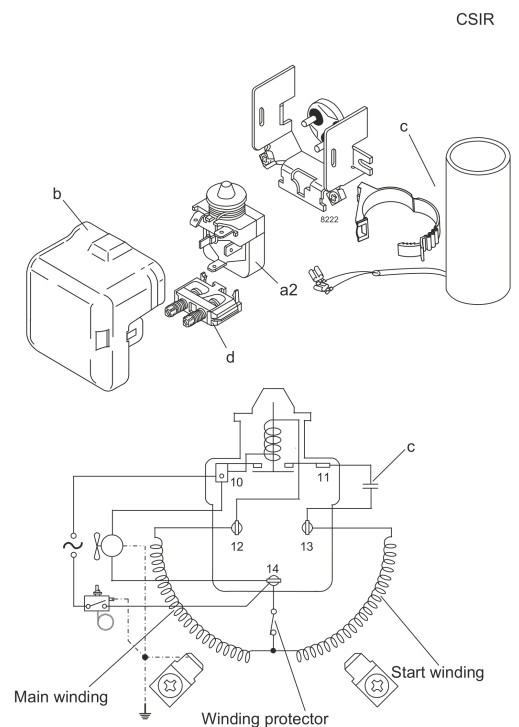
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



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Components

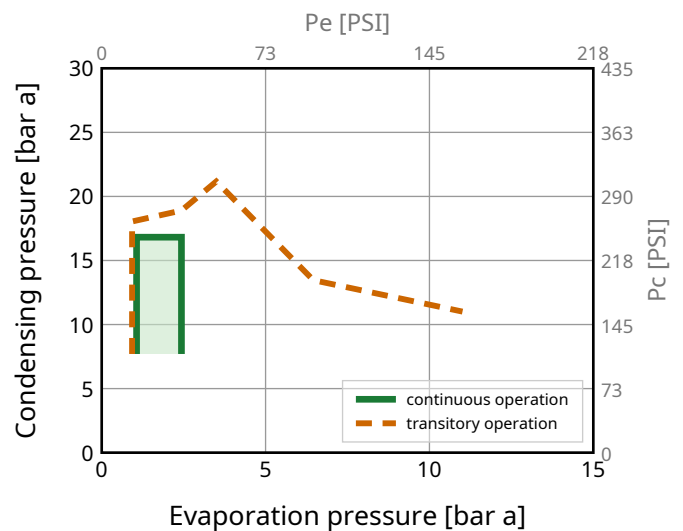
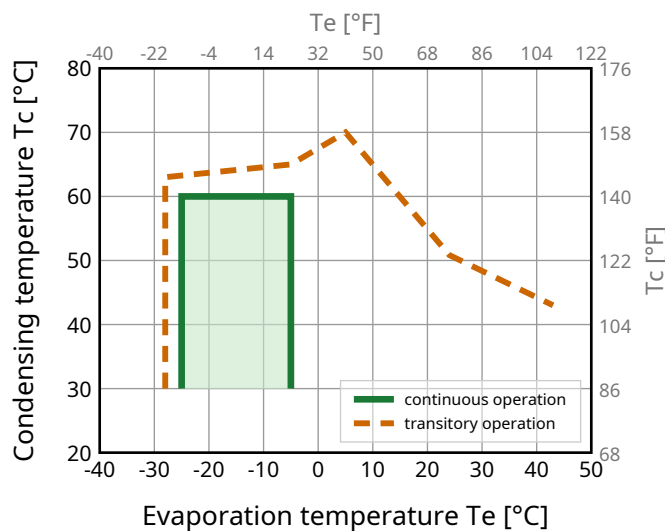
a2 relay 117U6005

c start capacitor (80µF) 117U5017

d cord relief 103N1004

b plastic cover 103N2009

Operation Pressure Range



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Configuration 2

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Standard Conditions

R134a, 230 V/60 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]	
-25 -13	55 131	32 89.6	55 131	262	894	225	0.79	2.71	330	1.99	6.25	CECOMAF LBP
-35 -31	40 104	20 68	40 104	168	573	144	0.94	3.22	178	1.56	3.67	EN12900 LBP
-10 14	55 131	32 89.6	55 131	677	2310	582	1.34	4.57	506	2.59	16.32	CECOMAF MBP
-10 14	45 113	20 68	45 113	786	2682	676	1.69	5.76	466	2.47	18.33	EN12900 MBP
5 41	55 131	32 89.6	55 131	1302	4443	1120	1.94	6.62	671	3.32	31.99	CECOMAF HBP
5 41	50 122	20 68	50 122	1334	4550	1147	2.11	7.19	633	3.17	33.45	EN12900 HBP

Performance Tables

R134a, 230 V/60 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]
-25	-13	347	1183	298	1.15	3.93	301	1.91	7.50
-20	-4	480	1636	412	1.34	4.59	357	2.08	10.40
-15	5	635	2168	546	1.54	5.26	412	2.27	13.82
-10	14	814	2778	700	1.75	5.97	466	2.47	17.78
-5	23	1016	3465	873	1.97	6.71	517	2.67	22.28

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

-25	-13	262	894	225	0.79	2.71	330	1.99	6.25
-20	-4	376	1285	324	0.97	3.31	388	2.17	9.01
-15	5	515	1757	443	1.15	3.93	447	2.37	12.36
-10	14	677	2310	582	1.34	4.57	506	2.59	16.32
-5	23	862	2943	742	1.53	5.22	563	2.82	20.90