

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

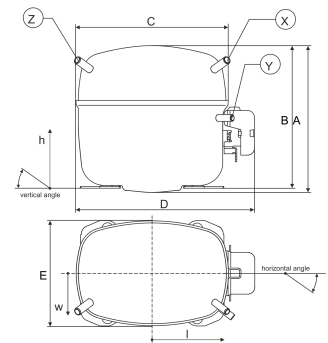
Oil type	POE	Winding resistance main	5.13 Ohm
Oil viscosity	22cSt	Winding resistance aux	13.51 Ohm
Oil quantity	554 / 18.73fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	1,410 cm ³ / 47.68fl.oz	Max. discharge temp.	130°C / 266°F
Motor protection	internal		

Compressor Dimensions

Housing

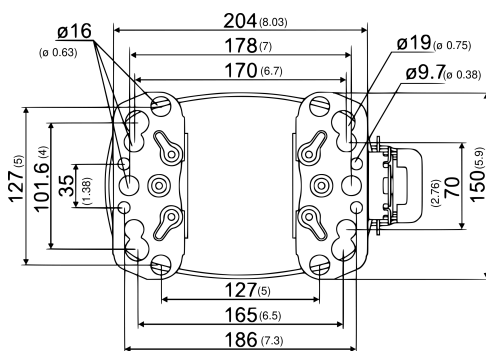
A Height	209mm / 8.23in
B Height	203mm / 7.99in
C Length shell	218mm / 8.58in
D Length w. cover	255mm / 10.04in
E Width	151mm / 5.94in

[Find 3D Model here](#)

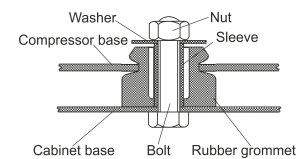


Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 10.11–10.29 / 0.40–0.41in	øi 6.41–6.59 / 0.25–0.26in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	143°
Vertical angle ±2°	30°	0°	150°
Position l/h/w [mm]	107/183/55 / 4.21/7.20/2.17in	115/100/63 / 4.53/3.94/2.48in	-107/183/55 / -4.21/7.20/2.17in
Straight tube l. [mm]	12 / 0.47in	12 / 0.47in	12 / 0.47in

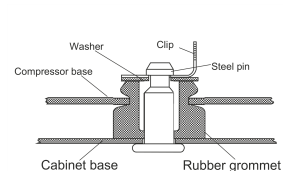
Mounting Accessories



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

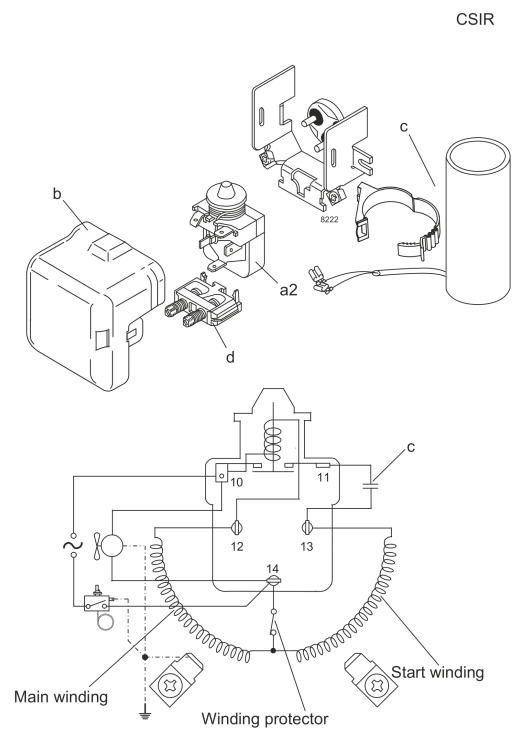
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



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Components

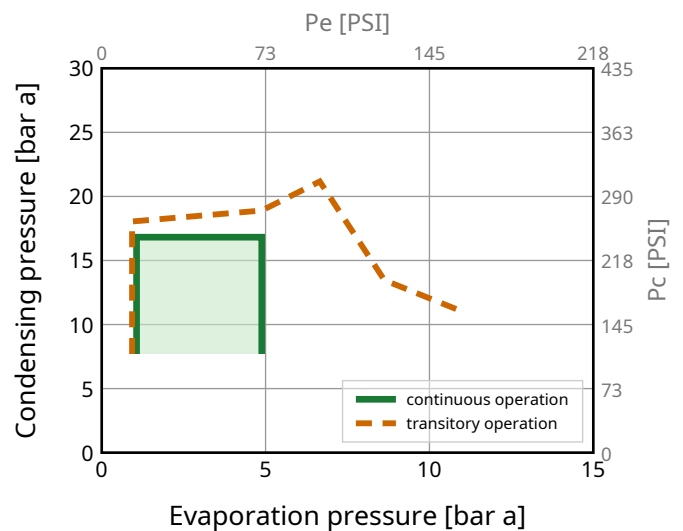
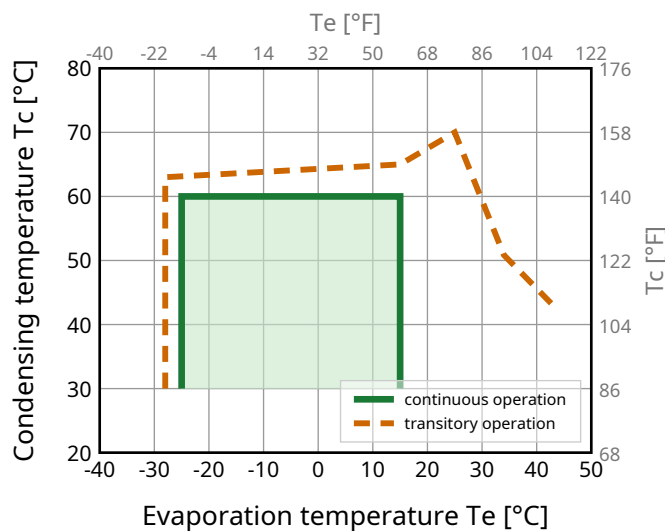
a2 relay 117U6005

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]	
-23.3 -10	54.4 129.9	32.2 90	32.2 90	304	1038	262	1.10	3.76	276	2.27	5.90	ASHRAE LBP
-6.7 20	54.4 129.9	35 95	46.1 115	740	2526	637	1.56	5.34	474	2.91	16.12	ASHRAE MBP
7.2 45	54.4 129.9	35 95	46.1 115	1343	4582	1155	2.19	7.49	612	3.50	29.73	ASHRAE HBP
-35 -31	40 104	20 68	40 104	142	483	122	0.77	2.61	185	1.95	3.10	EN12900 LBP
-10 14	45 113	20 68	45 113	645	2202	555	1.58	5.41	407	2.66	15.05	EN12900 MBP
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

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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

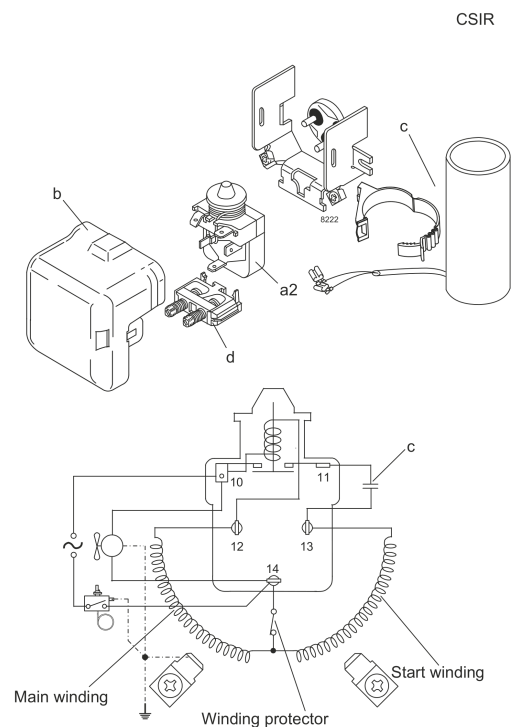
Ambient temperature range: 10 - 43°C / 50 - 109°F

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System Cooling

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Electrical Accessories / Wiring Diagram



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Components

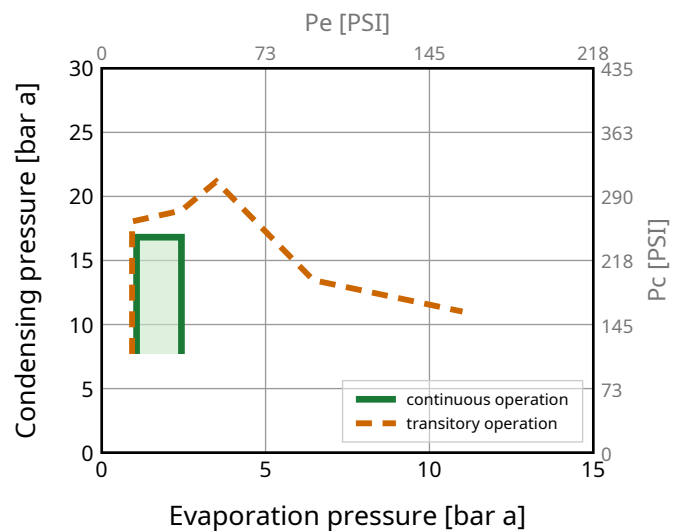
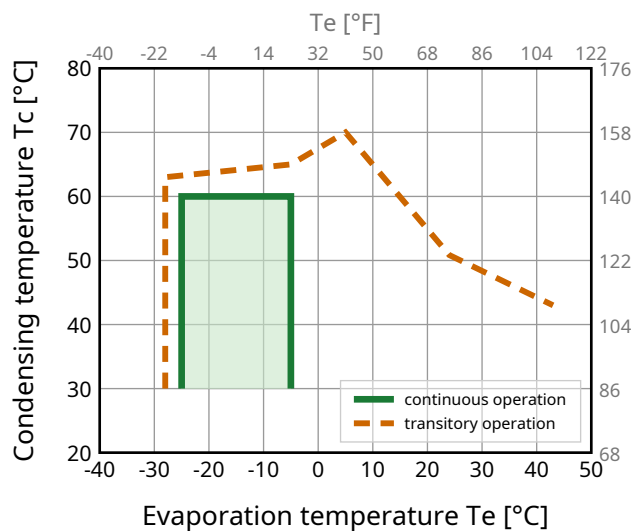
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c start capacitor (80µF) 117U5017

d cord relief 103N1004

b plastic cover 103N2009

Operation Pressure Range



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Configuration 2

Sales code:
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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]	
-23.3 -10	54.4 129.9	32.2 90	32.2 90	370	1264	319	1.07	3.64	347	2.03	7.19	ASHRAE LBP
-6.7 20	54.4 129.9	35 95	46.1 115	882	3010	759	1.63	5.58	540	2.73	19.21	ASHRAE MBP
7.2 45	54.4 129.9	35 95	46.1 115	1561	5327	1343	2.27	7.75	688	3.41	34.56	ASHRAE HBP
-35 -31	40 104	20 68	40 104	168	573	144	0.94	3.22	178	1.56	3.67	EN12900 LBP
-10 14	45 113	20 68	45 113	786	2682	676	1.69	5.76	466	2.47	18.33	EN12900 MBP
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