

Model
SC15G

Sales code:
104G7550

Compressor Data

Refrigerant(s)	R134a / R513A
Refr. charge - tech. limit	1300g / 45.86oz
Weight	13.20 kg / 29.10lbs
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)	115 V/60 Hz	115 V/60 Hz
Number of phases	1	1
Voltage range	103-127 V	103-127 V
Approvals	UL	UL
Starting torque	HST	HST
Refrigerant	R134a	R513A
Application	LBP+MBP+HBP	LBP+MBP+HBP
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

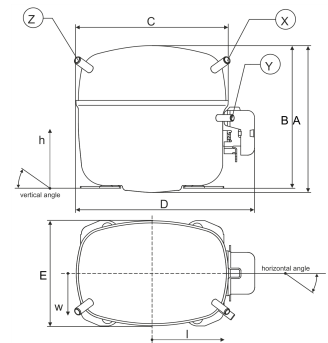
Oil type	POE	Winding resistance main	1 Ohm
Oil viscosity	22cSt	Winding resistance aux	4.2 Ohm
Oil quantity	504 / 17.04fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	1,460 cm ³ / 49.37fl.oz	Max. discharge temp.	130°C / 266°F
Motor protection	internal		

Compressor Dimensions

Housing

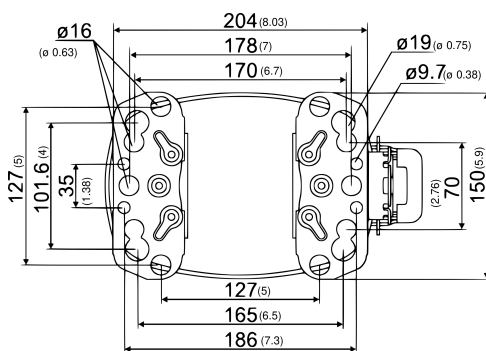
A Height	209mm / 8.23in
B Height	203mm / 7.99in
C Length shell	218mm / 8.58in
D Length w. cover	255mm / 10.04in
E Width	151mm / 5.94in

[Find 3D Model here](#)



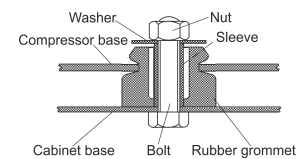
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.41–6.59 / 0.25–0.26in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	143°
Vertical angle ±2°	30°	0°	150°
Position l/h/w [mm]	107/183/55 / 4.21/7.20/2.17in	115/100/63 / 4.53/3.94/2.48in	-107/183/55 / -4.21/7.20/2.17in
Straight tube l. [mm]	12 / 0.47in	12 / 0.47in	12 / 0.47in

Mounting Accessories

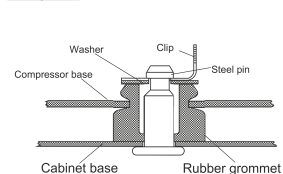


Dimensions in mm [in]

Bolt joint



Snap-on



	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)	115 V/60 Hz 1~
Refrigerant	R134a
Application	LBP+MBP+HBP
Voltage range	103-127 V
Starting torque	HST
Approvals	UL
Starting device type	relay
Run capacitor	-/-
Start capacitor	240 µF
LRA (locked rotor amps / 4s/ U(N))	39.7 A
RLA (rated load amps / 1s/ U(N))	7.6 A
Cut in current (U(N))	39.7 A

Ambient/ machine room temperatures minimum /maximum

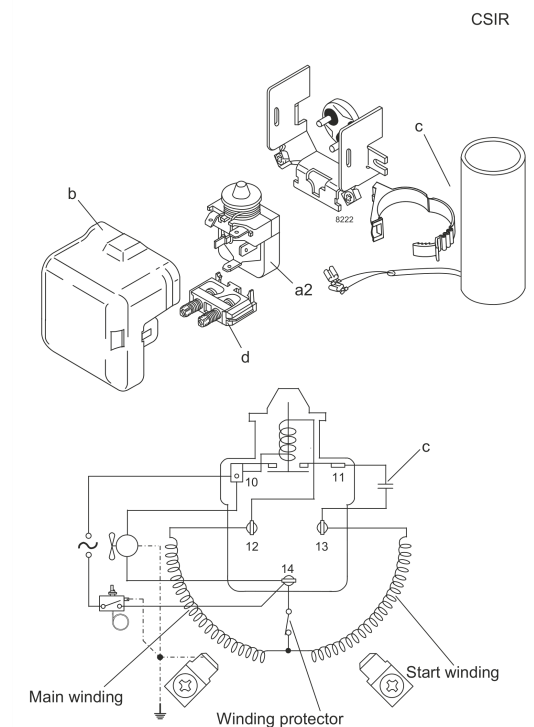
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

fan 1,5m/s

Electrical Accessories / Wiring Diagram


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Components
a2 relay 117U6020

c start capacitor (240µF) 117U5023

d cord relief 103N1004

b plastic cover 103N2008

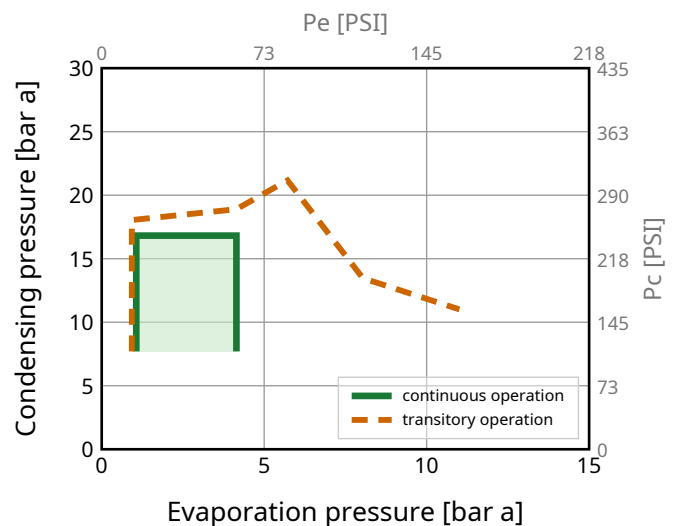
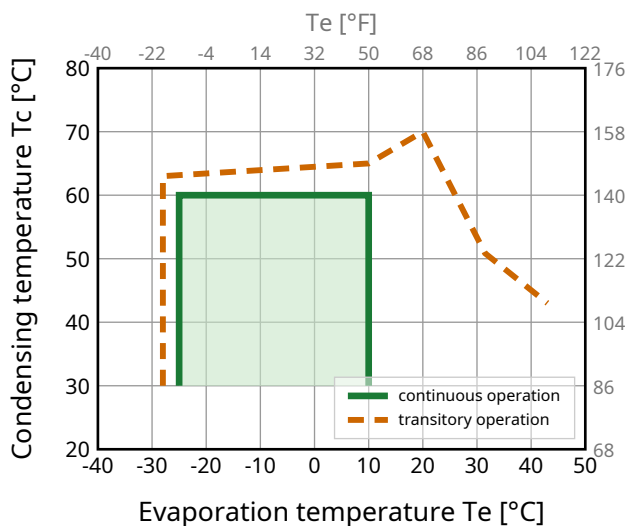
Alternative components
a2 relay 117U6020

c start capacitor (240µF, 15kOhm) 117U5034

d cord relief 103N1004

b plastic cover 103N2008

Operation Pressure Range



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Configuration 1

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Standard Conditions

R134a, 115 V/60 Hz, CSIR, fan 1,5m/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	363	1238	312	1.10	3.75	330	5.03	7.04	ASHRAE LBP
-6.7 20	54.4 129.9	35 95	46.1 115	897	3061	771	1.59	5.41	565	6.36	19.53	ASHRAE MBP
7.2 45	54.4 129.9	35 95	46.1 115	1622	5536	1395	2.12	7.23	766	7.85	35.91	ASHRAE HBP
-35 -31	40 104	20 68	40 104	146	496	125	0.70	2.40	207	4.55	3.18	EN12900 LBP
-10 14	45 113	20 68	45 113	781	2664	672	1.57	5.37	496	5.91	18.21	EN12900 MBP
5 41	50 122	20 68	50 122	1377	4699	1184	1.94	6.61	710	7.41	34.54	EN12900 HBP

Performance Tables

R134a, 115 V/60 Hz, CSIR, fan 1,5m/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	324	1104	278	1.03	3.52	314	4.93	7.00
-20	-4	459	1567	395	1.23	4.19	374	5.22	9.96
-15	5	621	2119	534	1.43	4.87	435	5.54	13.51
-10	14	809	2760	696	1.63	5.56	496	5.91	17.66
-5	23	1023	3489	880	1.83	6.25	558	6.31	22.44
0	32	1263	4308	1086	2.04	6.95	620	6.74	27.86
5	41	1529	5217	1315	2.24	7.64	683	7.20	33.96
10	50	1821	6214	1566	2.44	8.33	746	7.69	40.76

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

-25	-13	256	874	220	0.84	2.86	305	4.92	6.11
-20	-4	373	1273	321	0.99	3.38	376	5.25	8.92
-15	5	516	1761	444	1.15	3.94	447	5.63	12.39
-10	14	685	2338	589	1.32	4.50	519	6.06	16.52
-5	23	880	3004	757	1.49	5.08	591	6.54	21.34
0	32	1102	3760	948	1.66	5.66	664	7.06	26.87
5	41	1349	4604	1160	1.83	6.25	737	7.62	33.14
10	50	1623	5538	1396	2.00	6.84	810	8.21	40.21

Model

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Configuration 2

Sales code:

104G7550

Configuration

Motor configuration	CSIR
Power supply (nominal)	115 V/60 Hz 1~
Refrigerant	R513A
Application	LBP+MBP+HBP
Voltage range	103-127 V
Starting torque	HST
Approvals	UL
Starting device type	relay
Run capacitor	-/-
Start capacitor	240 µF
LRA (locked rotor amps / 4s/ U(N))	39.7 A
RLA (rated load amps / 1s/ U(N))	7.6 A
Cut in current (U(N))	39.7 A

Ambient/ machine room temperatures minimum /maximum

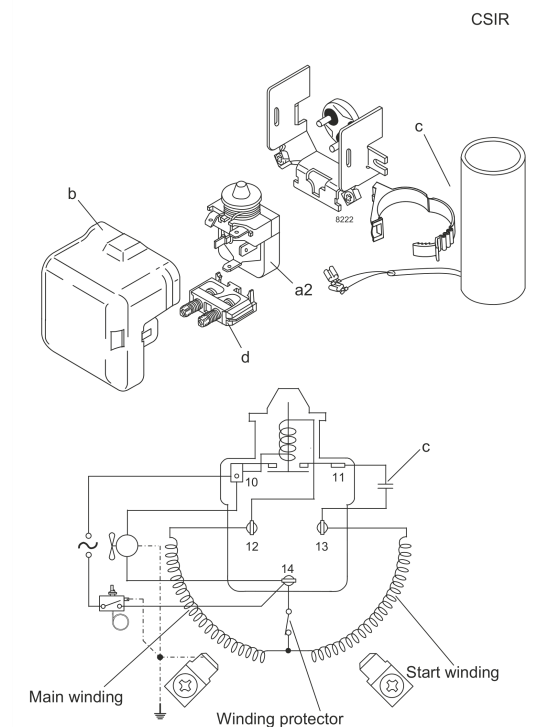
Ambient temperature range: 10 - 43°C / 50 - 109°F

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System Cooling

fan 1,5m/s

Electrical Accessories / Wiring Diagram


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c start capacitor (240µF) 117U5023

d cord relief 103N1004

b plastic cover 103N2008

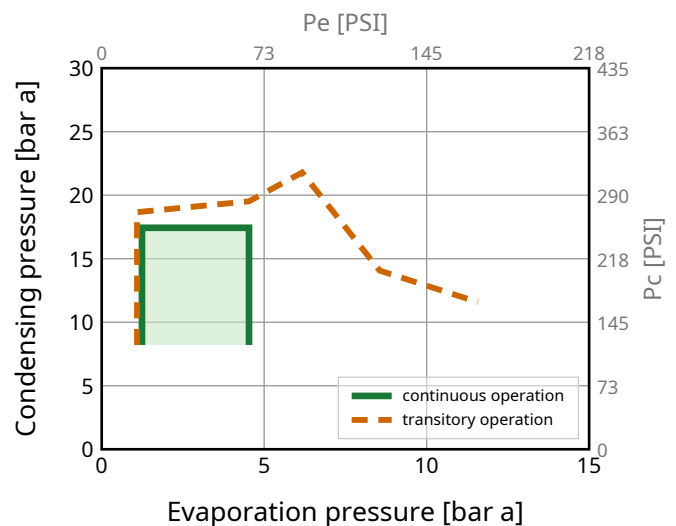
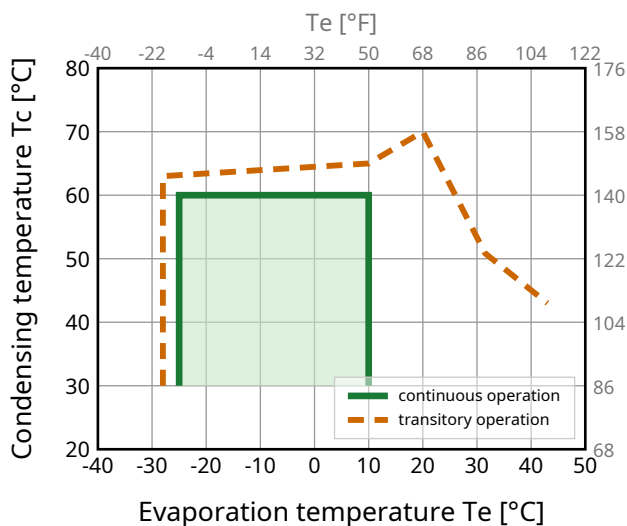
Alternative components
a2 relay 117U6020

c start capacitor (240µF, 15kOhm) 117U5034

d cord relief 103N1004

b plastic cover 103N2008

Operation Pressure Range



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Configuration 2

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Standard Conditions

R513A, 115 V/60 Hz, CSIR, fan 1,5m/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	402	1371	346	1.11	3.78	362	4.93	8.80	ASHRAE LBP
-6.7 20	54.4 129.9	35 95	46.1 115	942	3214	810	1.57	5.34	602	6.70	23.49	ASHRAE MBP
7.2 45	54.4 129.9	35 95	46.1 115	1668	5692	1435	2.08	7.09	802	8.19	42.39	ASHRAE HBP
-35 -31	40 104	20 68	40 104	160	545	137	0.70	2.40	228	3.93	4.02	EN12900 LBP
-10 14	45 113	20 68	45 113	813	2774	699	1.53	5.24	530	6.17	22.01	EN12900 MBP
5 41	50 122	20 68	50 122	1387	4732	1193	1.86	6.35	746	7.77	40.89	EN12900 HBP

Performance Tables

R513A, 115 V/60 Hz, CSIR, fan 1,5m/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	353	1203	303	1.03	3.51	342	4.78	8.72
-20	-4	494	1687	425	1.22	4.17	405	5.25	12.27
-15	5	661	2256	569	1.41	4.82	468	5.71	16.48
-10	14	853	2910	733	1.61	5.49	530	6.17	21.35
-5	23	1069	3648	920	1.81	6.17	592	6.63	26.91
0	32	1310	4470	1127	2.00	6.83	654	7.09	33.19
5	41	1575	5375	1355	2.20	7.50	716	7.55	40.21
10	50	1865	6363	1604	2.39	8.16	779	8.02	48.03

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

-25	-13	277	946	239	0.82	2.80	337	4.74	7.68
-20	-4	398	1357	342	0.97	3.31	410	5.29	11.05
-15	5	543	1851	467	1.12	3.83	483	5.82	15.15
-10	14	712	2430	612	1.28	4.37	556	6.36	19.98
-5	23	906	3092	779	1.44	4.92	628	6.90	25.58
0	32	1125	3837	967	1.60	5.48	701	7.43	31.98
5	41	1367	4665	1176	1.77	6.03	774	7.97	39.21
10	50	1634	5575	1405	1.93	6.58	847	8.52	47.33