

Model
SC15G

Sales code:
104G8526

Compressor Data

Refrigerant(s)	R134a
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
Motor configuration	CSIR
Power supply (nominal)	208-230 V/60 Hz
Number of phases	1
Voltage range	187-254 V
Approvals	VDE, UL, KC
Starting torque	HST
Refrigerant	R134a
Application	MBP
Hot gas defrost	OK
Long interval pull down	OK

Application Notes

- Provision for PE Grounding is located at the PE Stamp on the compressor
- LRA value on compressor label and datasheet may differ due to different test conditions for UL approval.

Model

SC15G

Sales code:

104G8526

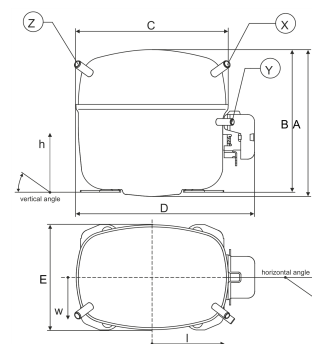
Compressor Design

Oil type	POE	Winding resistance main	4.400 Ohm
Oil viscosity	22cSt	Winding resistance aux	14.50 Ohm
Oil quantity	500 / 16.91fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	1,410 cm ³ / 47.68fl.oz	Max. discharge temp.	135°C / 275°F
Motor protection	internal		

Compressor Dimensions

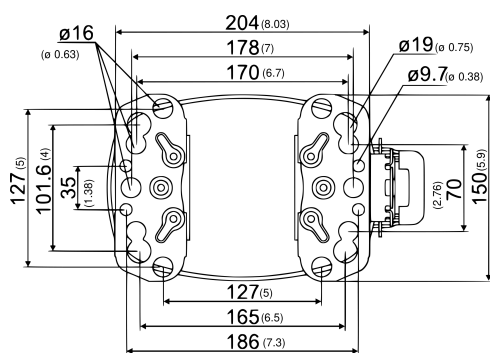
Housing

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

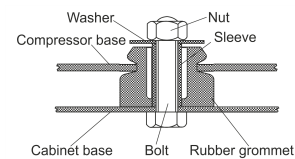
[Find 3D Model here](#)


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

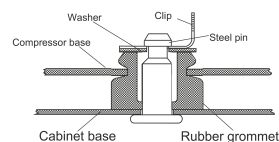
Mounting Accessories



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

Model

SC15G

Configuration 1

Sales code:

104G8526

Configuration

Motor configuration	CSIR
Power supply (nominal)	208-230 V/60 Hz 1~
Refrigerant	R134a
Application	MBP
Voltage range	187-254 V
Starting torque	HST
Approvals	VDE, UL, KC
Starting device type	relay
Run capacitor	-/-
Start capacitor	80 µF
RLA (rated load amps / 1s/ U(N))	-/-A

Ambient/ machine room temperatures minimum /maximum

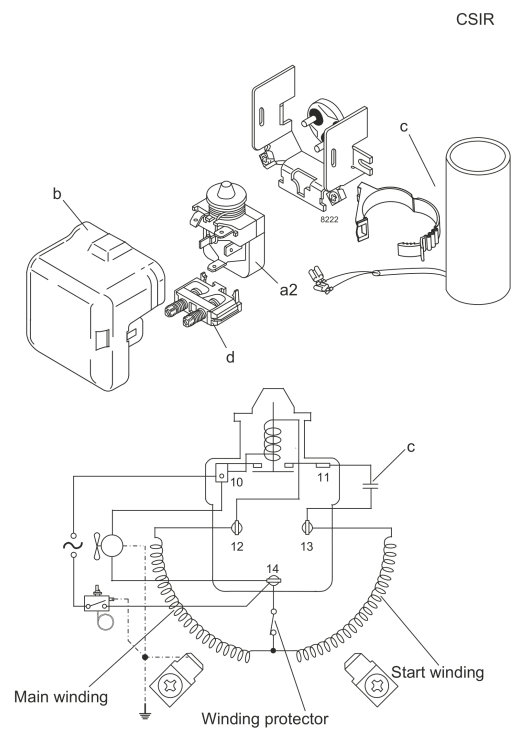
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram


[View full size](#)

Components

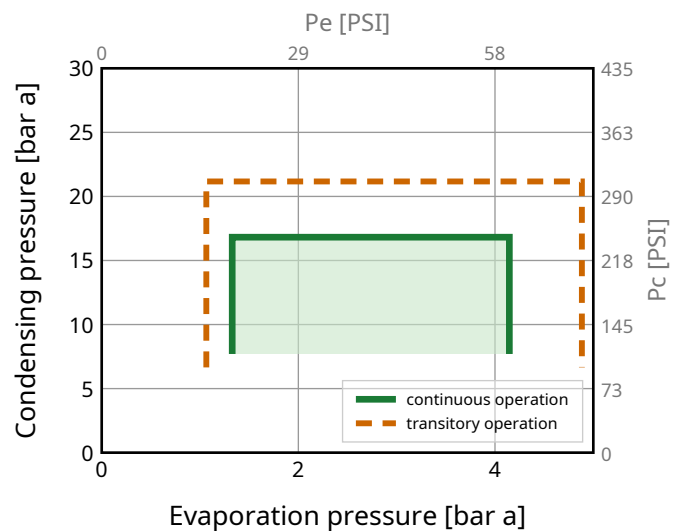
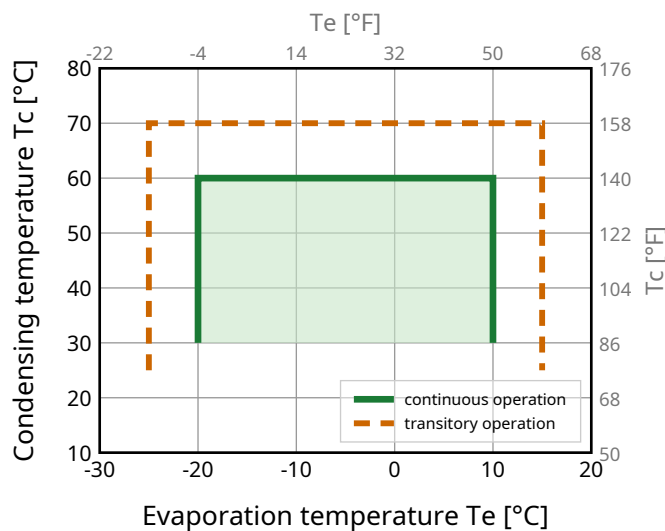
a2 relay 117U6011

c start capacitor (80µF) 117U5017

d cord relief 103N1004

b plastic cover 103N2008

Operation Pressure Range



Model
SC15G

Configuration 1

Sales code:
104G8526

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]	
-6.7 20	54.4 129.9	35 95	46.1 115	849	2897	730	1.66	5.68	510	3.05	18.49	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	642	2189	552	1.36	4.66	470	2.92	15.47	CECOMAF MBP
-10 14	45 113	20 68	45 113	743	2535	639	1.70	5.79	438	2.79	17.33	EN12900 MBP
-6.7 20	48.8 119.8	18.3 64.9	48.8 119.8	820	2796	705	1.68	5.72	489	2.96	20.14	ARI540 MBP
-10 14	45 113	32 89.6	45 113	770	2626	662	1.76	6.00	438	2.79	16.81	opt MBP
-23.3 -10	45 113	32.2 90	32.2 90	357	1218	307	1.33	4.54	268	2.34	6.93	opt LBP

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]
-20	-4	419	1429	360	1.34	4.57	313	2.45	9.08
-15	5	583	1989	501	1.55	5.27	377	2.61	12.68
-10	14	770	2626	662	1.76	6.00	438	2.79	16.81
-5	23	984	3356	846	1.99	6.79	494	2.97	21.58
0	32	1229	4195	1057	2.25	7.67	547	3.15	27.12
5	41	1512	5159	1300	2.54	8.67	595	3.35	33.58
10	50	1836	6265	1579	2.88	9.81	638	3.55	41.10

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

-20	-4	308	1049	264	0.95	3.25	323	2.51	7.36
-15	5	468	1596	402	1.17	4.00	400	2.71	11.23
-10	14	642	2189	552	1.36	4.66	470	2.92	15.47
-5	23	834	2844	717	1.56	5.33	534	3.13	20.20
0	32	1049	3578	902	1.77	6.05	591	3.35	25.57
5	41	1292	4408	1111	2.01	6.87	642	3.58	31.73
10	50	1568	5348	1348	2.29	7.80	686	3.82	38.83