Single
Packs

Single Pack SC12G 220-240V 50Hz / 208-230V 60Hz CSIR

Single pack code number: **195B4016**

Position	Title	Code	Amount
1	Compressor SC12G	104G8240	1
2	Starting relay	117U6003	1
3	Starting capacitor (80µF 220V, 6.3mm)	117U5017	1
4	Cord relief	103N1004	1
5	Cover	103N2009	1
6	Bolt joint for one compressor | M6 | ø16mm	118-1917	1

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Model
SC12G

Sales code:
104G8240

Compressor Data

Refrigerant(s)	**R134a / R513A**
Refr. charge - tech. limit	**1300g / 45.86oz**
Weight	**12.70 kg / 28.00lbs**
Displacement	**12.87 cm3 / 0.79cu.in**
Compressors on pallet	**80**

General – Configurations With SC12G

–	Conf. 1	Conf. 2	Conf. 3	Conf. 4	Conf. 5
Motor configuration	CSIR	CSIR	CSIR	CSIR	RSIR
Power supply (nominal)	220-240 V/50 Hz	220-240 V/60 Hz	220-240 V/50 Hz	220-240 V/60 Hz	220-240 V/50 Hz
Number of phases	1	1	1	1	1
Voltage range	187-254 V	198-254 V	187-254 V	187-253 V	187-254 V
Approvals	VDE, UL, CCC, EAC, KC	VDE, UL, CCC, EAC, KC	VDE, UL, CCC	VDE, UL, CCC	VDE, UL, CCC, EAC, KC
Starting torque	HST	HST	HST	HST	LST
Refrigerant	R134a	R134a	R513A	R513A	R134a
Application	LBP+MBP+HBP	LBP	LBP+MBP+HBP	LBP	LBP+MBP+HBP
Hot gas defrost	OK	OK	OK	OK	OK
Long interval pull down	OK	OK	OK	OK	OK

Application Notes

- Provision for PE Grounding is located at the PE Stamp on the compressor

Model
SC12G

Sales code:
104G8240

Compressor Design

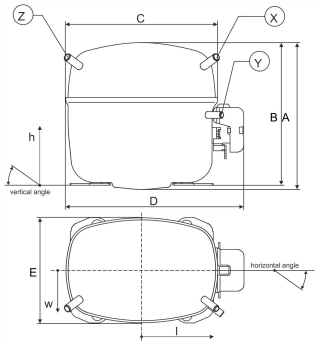
Oil type	**POE**	Winding resistance main	**6.9 Ohm**
Oil viscosity	**22cSt**	Winding resistance aux	**11 Ohm**
Oil quantity	**550 / 18.60fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**1,510 cm3 / 51.06fl.oz**	Max. discharge temp.	**130°C / 266°F**
Motor protection	**internal**		

Compressor Dimensions

Housing

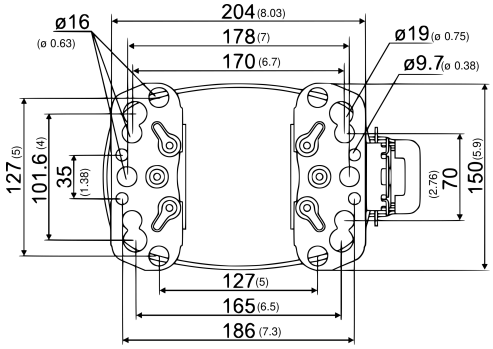
A Height	**209mm / 8.23in**
B Height	**203mm / 7.99in**
C Length shell	**218mm / 8.58in**
D Length w. cover	**255mm / 10.04in**
E Width	**151mm / 5.94in**

Find 3D Model here



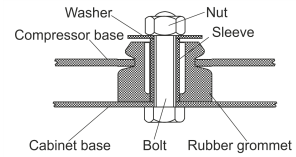
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.11–6.29 / 0.24–0.25in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	143°
Vertical angle ±2°	30°	0°	150°
Position l/h/w [mm]	107/183/55 / 4.21/7.20/2.17in	115/100/63 / 4.53/3.94/2.48in	-107/183/55 / -4.21/7.20/2.17in
Straight tube l. [mm]	12 / 0.47in	12 / 0.47in	12 / 0.47in

Mounting Accessories

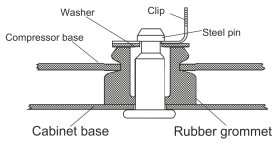


Dimensions in mm [in]

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

Model
SC12G Configuration 1

Sales code:
104G8240

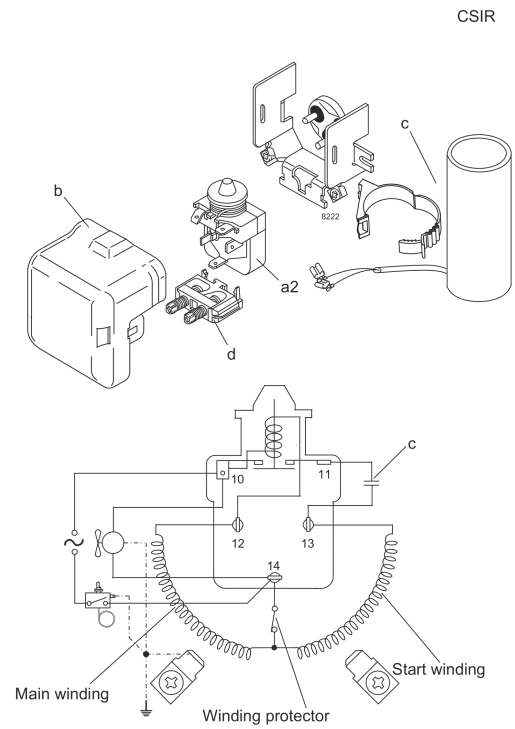
Configuration

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, UL, CCC, EAC, KC**
Starting device type	**relay**
Run capacitor	**-/-**
Start capacitor	**80 µF**
LRA (locked rotor amps / 4s/ U(N))	**13 A**
RLA (rated load amps / 1s/ U(N))	**2.5 A**
Cut in current (U(N))	**17 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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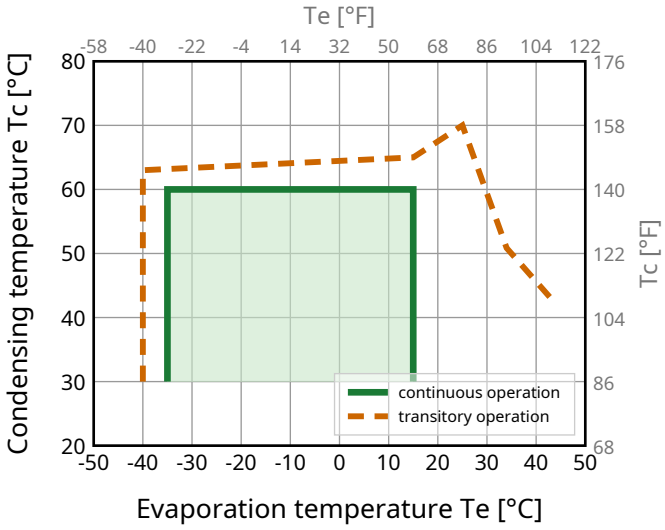
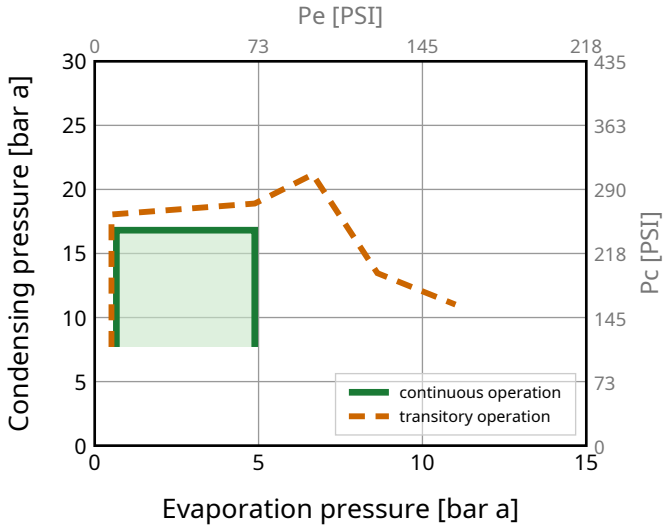
Components
a2 assy. relay 117U6003
c start capacitor (80µF) 117U5017
d cord relief 103N1004
b plastic cover 103N2009

Operation Pressure Range





Model
SC12G Configuration 1

Sales code:
104G8240

Standard Conditions

R134a, 220 V/50 Hz, CSIR, fan 3m/s

pe	pc	RGT	Tliq	Cooling capacity			COP	EER	P	I	ṁ	
[°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	**248**	846	213	**1.03**	3.51	241	1.87	4.81	**ASHRAE LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**613**	2093	528	**1.60**	5.46	384	2.33	13.36	**ASHRAE MBP**
7.2 45	54.4 129.9	35 95	46.1 115	**1168**	3987	1005	**2.29**	7.80	511	2.83	25.86	**ASHRAE HBP**
-35 -31	40 104	20 68	40 104	**123**	421	106	**0.75**	2.55	165	1.73	2.70	**EN12900 LBP**
-10 14	45 113	20 68	45 113	**548**	1870	471	**1.62**	5.51	339	2.15	12.78	**EN12900 MBP**
5 41	50 122	20 68	50 122	**996**	3400	857	**2.10**	7.16	475	2.67	25.00	**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	ṁ
[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]
-35	-31	**103**	350	88	**0.65**	2.21	158	1.69	2.21
-30	-22	**161**	550	139	**0.84**	2.86	193	1.76	3.48
-20	-4	**325**	1110	280	**1.23**	4.20	264	1.93	7.05
-10	14	**568**	1937	488	**1.67**	5.71	339	2.15	12.40
0	32	**908**	3097	781	**2.18**	7.43	417	2.42	20.03
10	50	**1365**	4657	1174	**2.75**	9.40	496	2.75	30.55
15	59	**1644**	5608	1413	**3.07**	10.47	536	2.94	37.13

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

-35	-31	**65**	220	56	**0.44**	1.49	148	1.63	1.53
-30	-22	**113**	386	97	**0.61**	2.07	187	1.72	2.69
-20	-4	**252**	861	217	**0.94**	3.21	268	1.95	6.04
-10	14	**464**	1584	399	**1.31**	4.46	355	2.24	11.19
0	32	**768**	2619	660	**1.72**	5.87	446	2.57	18.72
10	50	**1182**	4034	1017	**2.19**	7.46	540	2.96	29.29
15	59	**1437**	4904	1236	**2.44**	8.33	589	3.17	35.98

Model
SC12G Configuration 2

Sales code:
104G8240

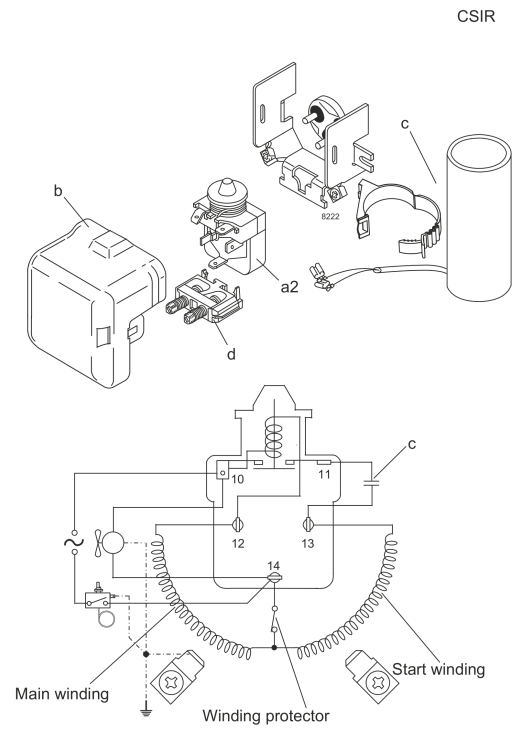
Configuration

Motor configuration	**CSIR**
Power supply (nominal)	**220-240 V/60 Hz 1~**
Refrigerant	**R134a**
Application	**LBP**
Voltage range	**198-254 V**
Starting torque	**HST**
Approvals	**VDE, UL, CCC, EAC, KC**
Starting device type	**relay**
Run capacitor	**-/-**
Start capacitor	**80 µF**
LRA (locked rotor amps / 4s/ U(N))	**13 A**
RLA (rated load amps / 1s/ U(N))	**2.5 A**
Cut in current (U(N))	**17 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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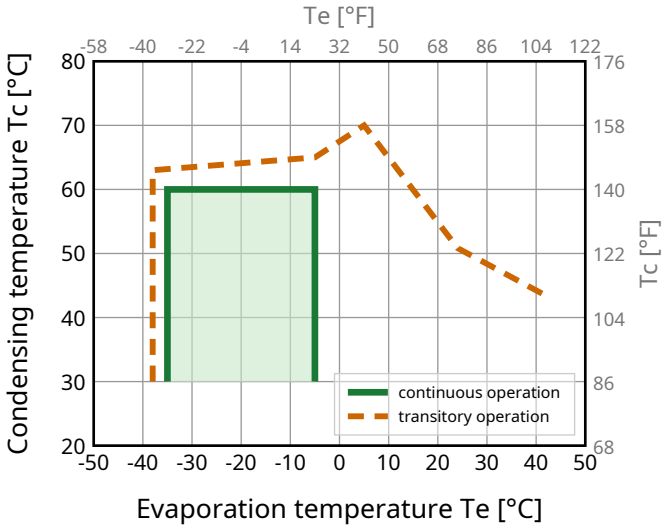
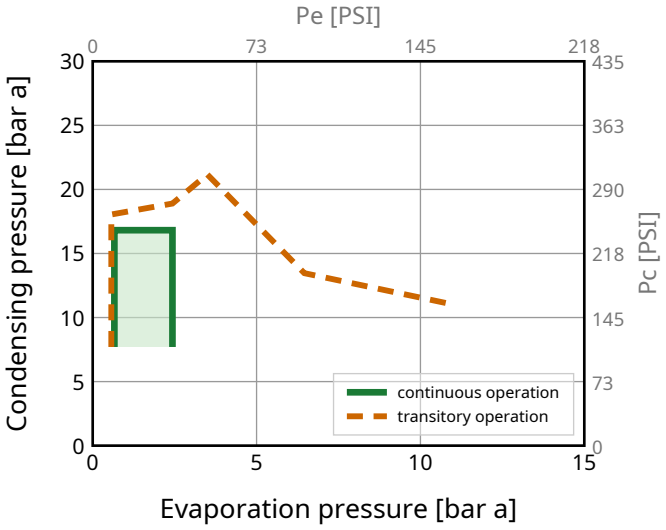
Components
a2 assy. relay 117U6003
c start capacitor (80µF) 117U5017
d cord relief 103N1004
b plastic cover 103N2009

Operation Pressure Range





Model Sales code:

SC12G Configuration 2 **104G8240**

Standard Conditions

R134a, 230 V/60 Hz, CSIR, fan 3m/s

pe	pc	RGT	Tliq	Cooling capacity			COP	EER	P	I	ṁ	
[°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	**288**	984	248	**1.03**	3.50	281	2.06	5.59	**ASHRAE LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**716**	2444	616	**1.60**	5.45	448	2.57	15.59	**ASHRAE MBP**
7.2 45	54.4 129.9	35 95	46.1 115	**1366**	4659	1174	**2.29**	7.80	598	3.12	30.23	**ASHRAE HBP**
-35 -31	40 104	20 68	40 104	**143**	488	123	**0.74**	2.54	192	1.90	3.13	**EN12900 LBP**
-10 14	45 113	20 68	45 113	**640**	2183	550	**1.61**	5.51	396	2.36	14.92	**EN12900 MBP**
5 41	50 122	20 68	50 122	**1165**	3974	1002	**2.10**	7.16	555	2.94	29.21	**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	ṁ
[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]
-35	-31	**119**	405	102	**0.64**	2.19	185	1.86	2.56
-30	-22	**187**	639	161	**0.83**	2.84	225	1.93	4.04
-25	-13	**273**	932	235	**1.03**	3.50	266	2.02	5.91
-20	-4	**379**	1294	326	**1.23**	4.19	309	2.12	8.22
-15	5	**508**	1734	437	**1.44**	4.92	352	2.23	11.05
-10	14	**663**	2261	570	**1.67**	5.71	396	2.36	14.47
-5	23	**846**	2887	728	**1.92**	6.54	441	2.51	18.56

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

-35	-31	**74**	253	64	**0.43**	1.47	172	1.79	1.76
-30	-22	**131**	447	113	**0.60**	2.05	218	1.89	3.12
-25	-13	**203**	694	175	**0.77**	2.62	265	2.01	4.85
-20	-4	**294**	1003	253	**0.94**	3.20	313	2.15	7.03
-15	5	**406**	1385	349	**1.12**	3.81	363	2.30	9.74
-10	14	**542**	1848	466	**1.31**	4.46	415	2.46	13.06
-5	23	**704**	2403	606	**1.51**	5.14	468	2.64	17.07

Model
SC12G Configuration 3

Sales code:
104G8240

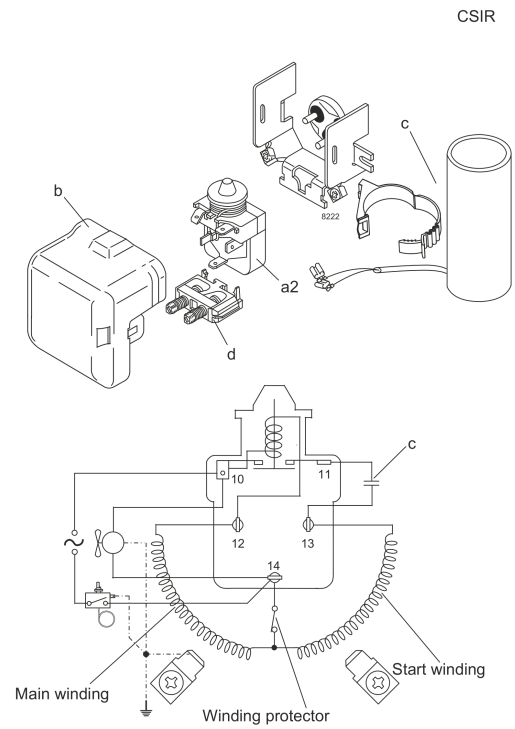
Configuration

Motor configuration	**CSIR**
Power supply (nominal)	**220-240 V/50 Hz 1~**
Refrigerant	**R513A**
Application	**LBP+MBP+HBP**
Voltage range	**187-254 V**
Starting torque	**HST**
Approvals	**VDE, UL, CCC**
Starting device type	**relay**
Run capacitor	**-/-**
Start capacitor	**80 µF**
LRA (locked rotor amps / 4s/ U(N))	**13 A**
RLA (rated load amps / 1s/ U(N))	**2.5 A**
Cut in current (U(N))	**17 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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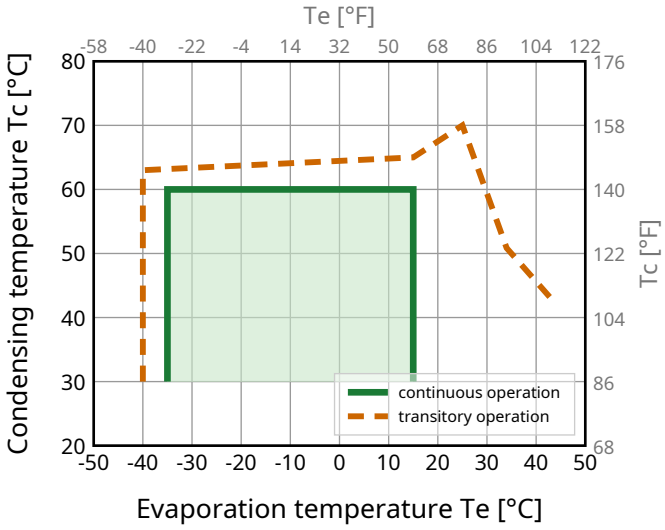
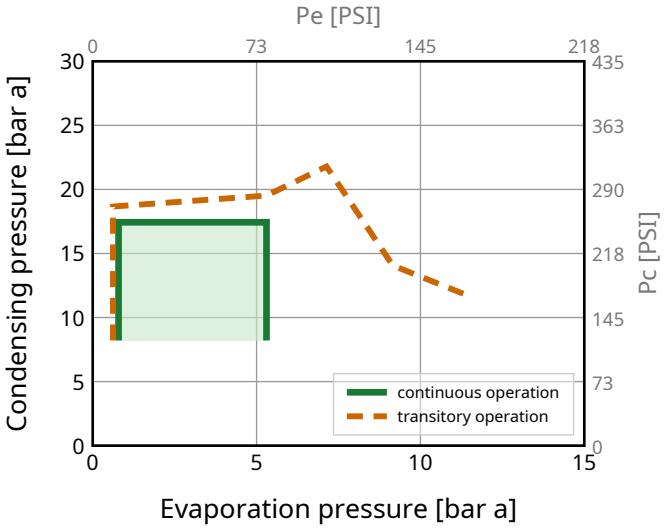
Components
a2 assy. relay 117U6003
c start capacitor (80µF) 117U5017
d cord relief 103N1004
b plastic cover 103N2009

Operation Pressure Range





Model
SC12G Configuration 3

Sales code:
104G8240

Standard Conditions

R513A, 220 V/50 Hz, CSIR, fan 3m/s

pe	pc	RGT	Tliq	Cooling capacity			COP	EER	P	I	ṁ	
[°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	**275**	939	237	**1.06**	3.63	259	1.90	6.03	**ASHRAE LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**645**	2199	554	**1.59**	5.43	405	2.41	16.07	**ASHRAE MBP**
7.2 45	54.4 129.9	35 95	46.1 115	**1203**	4104	1034	**2.26**	7.70	533	2.86	30.56	**ASHRAE HBP**
-35 -31	40 104	20 68	40 104	**139**	476	120	**0.78**	2.67	178	1.62	3.50	**EN12900 LBP**
-10 14	45 113	20 68	45 113	**571**	1948	491	**1.59**	5.44	358	2.25	15.46	**EN12900 MBP**
5 41	50 122	20 68	50 122	**1004**	3427	864	**2.03**	6.92	496	2.73	29.61	**EN12900 HBP**

Performance Tables

R513A, 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	ṁ
[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]
-35	-31	**118**	401	101	**0.68**	2.33	172	1.60	2.89
-30	-22	**180**	613	155	**0.87**	2.95	208	1.72	4.43
-20	-4	**351**	1197	302	**1.25**	4.25	282	1.98	8.71
-10	14	**599**	2044	515	**1.67**	5.70	358	2.25	15.00
0	32	**942**	3215	810	**2.16**	7.37	436	2.52	23.87
10	50	**1399**	4772	1203	**2.71**	9.26	515	2.80	36.02
15	59	**1675**	5714	1440	**3.02**	10.30	555	2.94	43.60

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

-35	-31	**75**	256	64	**0.46**	1.58	162	1.56	2.06
-30	-22	**126**	430	108	**0.62**	2.12	203	1.71	3.48
-20	-4	**269**	919	232	**0.94**	3.20	288	2.00	7.49
-10	14	**483**	1647	415	**1.28**	4.38	376	2.31	13.54
0	32	**784**	2675	674	**1.68**	5.72	468	2.63	22.29
10	50	**1191**	4065	1025	**2.12**	7.23	562	2.96	34.51
15	59	**1440**	4914	1239	**2.36**	8.06	610	3.13	42.23

Model
SC12G Configuration 4

Sales code:
104G8240

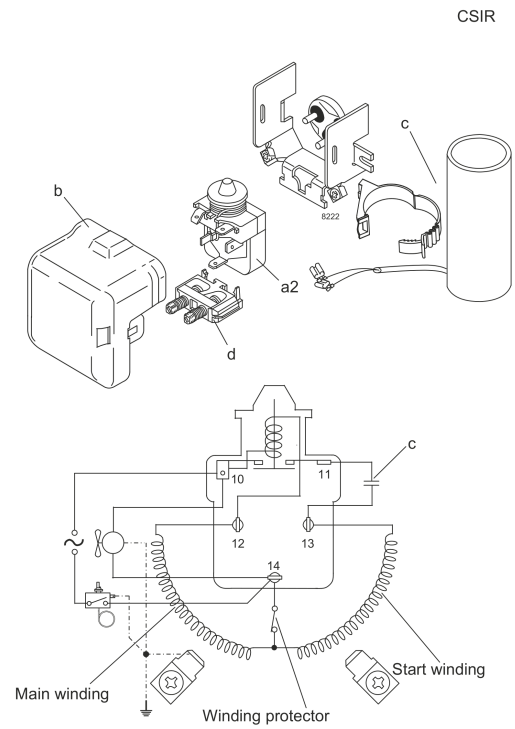
Configuration

Motor configuration	**CSIR**
Power supply (nominal)	**220-240 V/60 Hz 1~**
Refrigerant	**R513A**
Application	**LBP**
Voltage range	**187-253 V**
Starting torque	**HST**
Approvals	**VDE, UL, CCC**
Starting device type	**relay**
Run capacitor	**-/-**
Start capacitor	**80 µF**
LRA (locked rotor amps / 4s/ U(N))	**13 A**
RLA (rated load amps / 1s/ U(N))	**2.5 A**
Cut in current (U(N))	**17 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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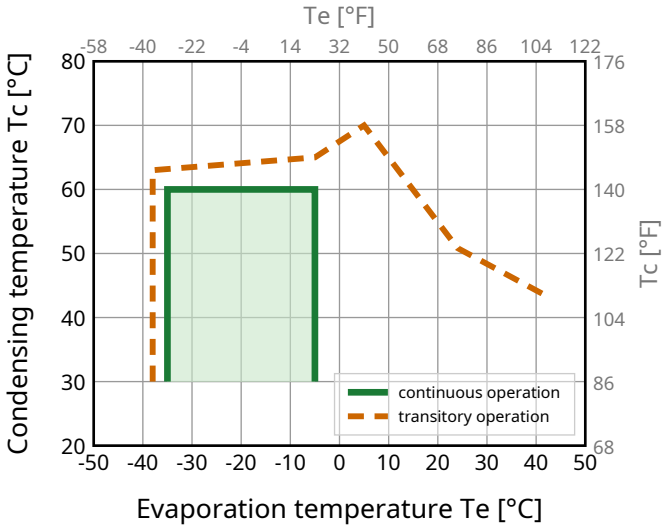
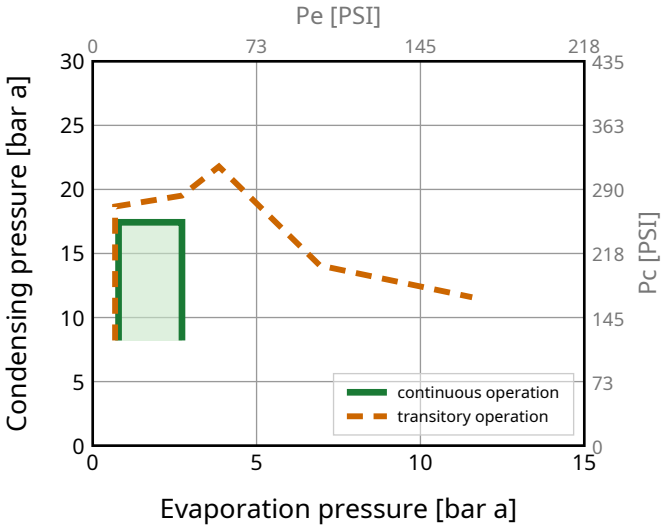
Components
a2 assy. relay 117U6003
c start capacitor (80µF) 117U5017
d cord relief 103N1004
b plastic cover 103N2009

Operation Pressure Range





Model

SC12G Configuration 4

Sales code:

104G8240

Standard Conditions

R513A, 230 V/60 Hz, CSIR, fan 3m/s

pe	pc	RGT	Tliq	Cooling capacity			COP	EER	P	I	ṁ	
[°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	**320**	1092	275	**1.04**	3.56	307	2.11	7.01	**ASHRAE LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**752**	2567	647	**1.58**	5.39	476	2.67	18.76	**ASHRAE MBP**
7.2 45	54.4 129.9	35 95	46.1 115	**1405**	4795	1208	**2.25**	7.67	625	3.16	35.70	**ASHRAE HBP**
-35 -31	40 104	20 68	40 104	**162**	552	139	**0.76**	2.61	212	1.80	4.07	**EN12900 LBP**
-10 14	45 113	20 68	45 113	**666**	2274	573	**1.58**	5.38	422	2.49	18.05	**EN12900 MBP**
5 41	50 122	20 68	50 122	**1174**	4004	1009	**2.02**	6.89	581	3.02	34.60	**EN12900 HBP**

Performance Tables

R513A, 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	ṁ
[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]
-35	-31	**136**	464	117	**0.67**	2.27	204	1.77	3.35
-30	-22	**209**	712	180	**0.85**	2.89	247	1.91	5.15
-25	-13	**299**	1020	257	**1.03**	3.52	290	2.06	7.39
-20	-4	**409**	1395	352	**1.23**	4.18	334	2.20	10.15
-15	5	**542**	1848	466	**1.43**	4.89	378	2.35	13.49
-10	14	**699**	2386	601	**1.66**	5.65	422	2.49	17.50
-5	23	**885**	3019	761	**1.89**	6.46	467	2.64	22.27

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

-35	-31	**86**	294	74	**0.45**	1.52	194	1.74	2.37
-30	-22	**146**	498	125	**0.60**	2.06	242	1.90	4.03
-25	-13	**221**	753	190	**0.76**	2.59	291	2.06	6.12
-20	-4	**314**	1070	270	**0.92**	3.14	341	2.22	8.71
-15	5	**427**	1456	367	**1.09**	3.72	392	2.39	11.91
-10	14	**563**	1921	484	**1.27**	4.33	443	2.56	15.80
-5	23	**725**	2474	624	**1.46**	4.99	496	2.73	20.47

Model
SC12G Configuration 5

Sales code:
104G8240

Configuration

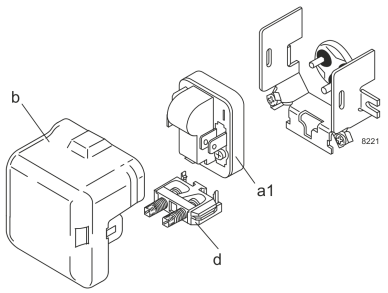
Motor configuration	**RSIR**
Power supply (nominal)	**220-240 V/50 Hz 1~**
Refrigerant	**R134a**
Application	**LBP+MBP+HBP**
Voltage range	**187-254 V**
Starting torque	**LST**
Approvals	**VDE, UL, CCC, EAC, KC**
Starting device type	**PTC**
Run capacitor	**-/-**
Start capacitor	**-/-**
LRA (locked rotor amps / 4s/ U(N))	**13 A**
RLA (rated load amps / 1s/ U(N))	**2.5 A**
Cut in current (U(N))	**17 A**

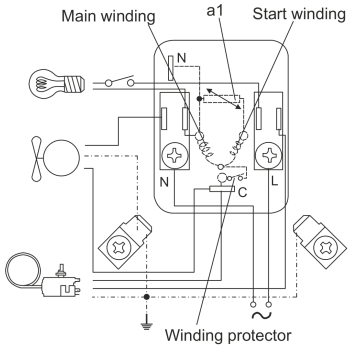
Ambient/ machine room temperatures minimum /maximum
Ambient temperature range: 10 - 43°C / 50 - 109°F
Machine room temp. compressor: 10 - 48°C / 50 - 118°F

System Cooling
fan 3m/s

Electrical Accessories / Wiring Diagram

RSIR

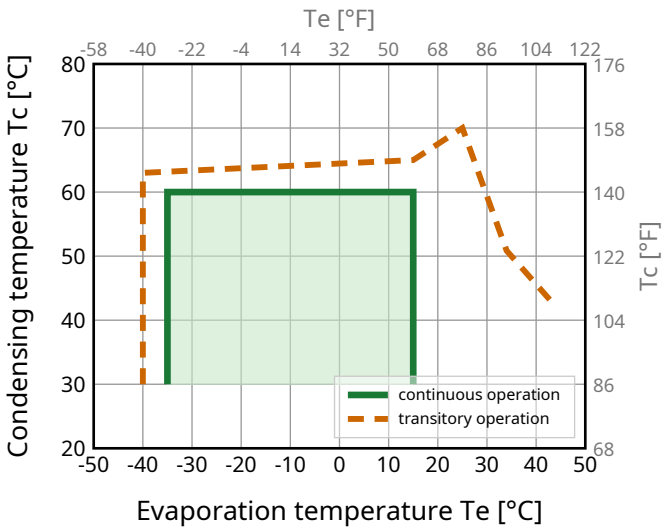


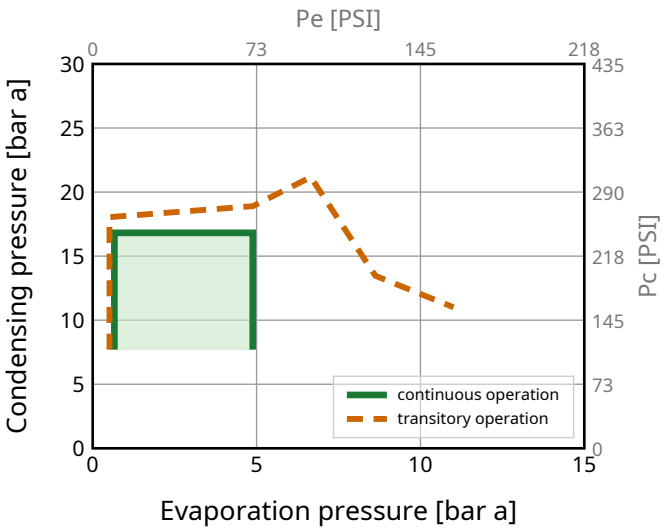


View full size

Components
a1 PTC starter (220V, 25Ohm, 6.3mm) 103N0011
d cord relief 103N1004
b plastic cover 103N2009

Operation Pressure Range





Model
SC12G Configuration 5

Sales code:
104G8240

Standard Conditions

R134a, 220 V/50 Hz, RSIR, fan 3m/s

pe	pc	RGT	Tliq	Cooling capacity			COP	EER	P	I	ṁ	
[°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	**248**	846	213	**1.03**	3.51	241	1.87	4.81	**ASHRAE LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**613**	2093	528	**1.60**	5.46	384	2.33	13.36	**ASHRAE MBP**
7.2 45	54.4 129.9	35 95	46.1 115	**1168**	3987	1005	**2.29**	7.80	511	2.83	25.86	**ASHRAE HBP**
-35 -31	40 104	20 68	40 104	**123**	421	106	**0.75**	2.55	165	1.73	2.70	**EN12900 LBP**
-10 14	45 113	20 68	45 113	**548**	1870	471	**1.62**	5.51	339	2.15	12.78	**EN12900 MBP**
5 41	50 122	20 68	50 122	**996**	3400	857	**2.10**	7.16	475	2.67	25.00	**EN12900 HBP**

Performance Tables

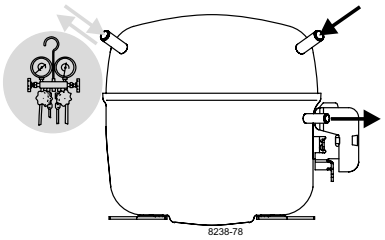
R134a, 220 V/50 Hz, RSIR, fan 3m/s

pc= 45/113 | RGT= 32/89.6 | Tliq= 45/113 | °C/°F

pe		Cooling capacity			COP	EER	P	I	ṁ
[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]
-35	-31	**103**	350	88	**0.65**	2.21	158	1.69	2.21
-30	-22	**161**	550	139	**0.84**	2.86	193	1.76	3.48
-20	-4	**325**	1110	280	**1.23**	4.20	264	1.93	7.05
-10	14	**568**	1937	488	**1.67**	5.71	339	2.15	12.40
0	32	**908**	3097	781	**2.18**	7.43	417	2.42	20.03
10	50	**1365**	4657	1174	**2.75**	9.40	496	2.75	30.55
15	59	**1644**	5608	1413	**3.07**	10.47	536	2.94	37.13

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

-35	-31	**65**	220	56	**0.44**	1.49	148	1.63	1.53
-30	-22	**113**	386	97	**0.61**	2.07	187	1.72	2.69
-20	-4	**252**	861	217	**0.94**	3.21	268	1.95	6.04
-10	14	**464**	1584	399	**1.31**	4.46	355	2.24	11.19
0	32	**768**	2619	660	**1.72**	5.87	446	2.57	18.72
10	50	**1182**	4034	1017	**2.19**	7.46	540	2.96	29.29
15	59	**1437**	4904	1236	**2.44**	8.33	589	3.17	35.98



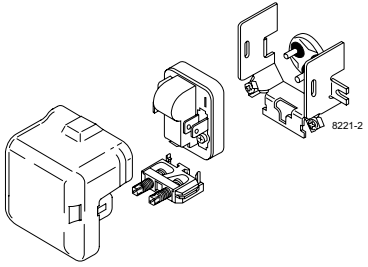
SC Compressors

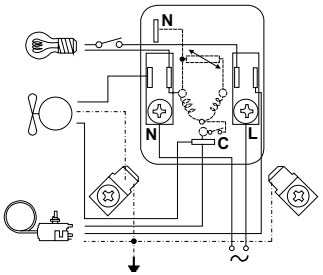
SECOP

Keep electrical equipment clear from oil, chemicals, and water

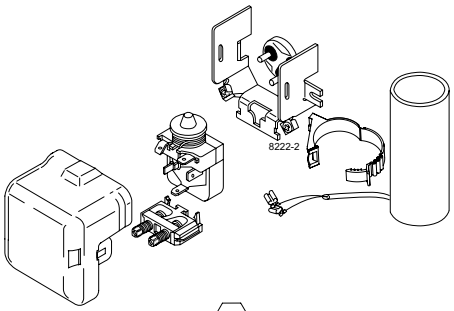
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

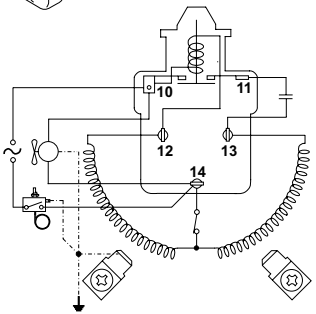
RSIR



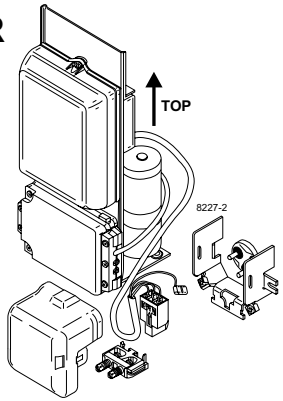


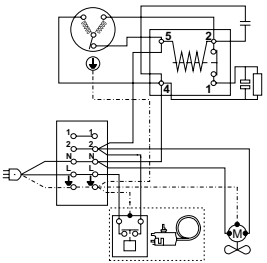
CSIR

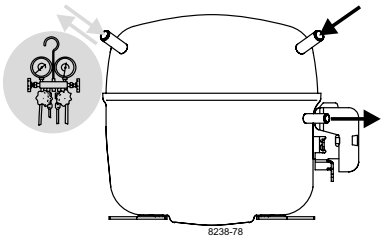




CSCR







SC Compressors

SECOP

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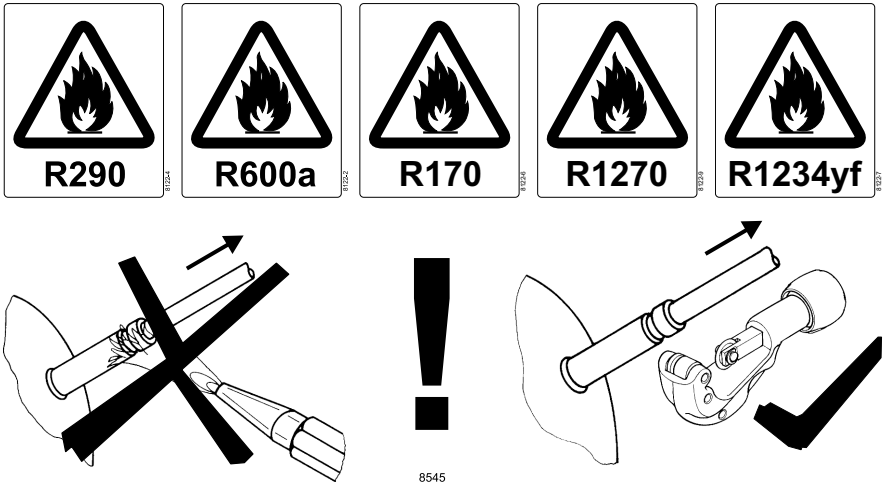
Service/Repair – R290, R600a, R170, R1270, R1234yf

(applies to all flammable refrigerants)



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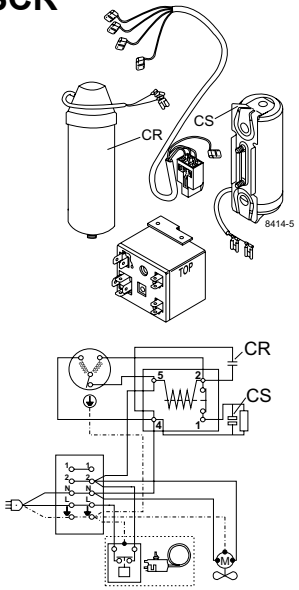

Dismantling, recycling, disposal: At the end of a compressor's lifecycle, proceed by separating and storing components according to their environmental impact. Parts that may cause pollution must be clearly identified and handled separately, ensuring appropriate disposal. Refrigerant gas must not be released into the environment and should be recovered by qualified operators. Compressor oil must also be collected separately. The compressor should be disposed of at specialized disposal centers in accordance with the applicable regulations. **Subject to modifications/alterations. www.secop.com**