Singolo
Imballi

Single Pack SC10G 220-240V 50Hz / 208-230V 60Hz CSIR

Codice Imballo Singolo: **195B4035**

Posizione	Titolo	Codice	Quantità
1	Compressor SC10G	104G8000	1
2	Starting relay	117U6002	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
SC10G

Sales code:
104G8000

Compressor Data

Refrigerant(s)	**R134a / R513A**
Refr. charge - tech. limit	**1300g / 45.86oz**
Weight	**12.10 kg / 26.68lbs**
Displacement	**10.29 cm3 / 0.63cu.in**
Compressors on pallet	**80**

General – Configurations With SC10G

–	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	208-230 V/60 Hz	220-240 V/50 Hz	208-230 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	198-253 V	187-254 V
Approvals	VDE, CCC, EAC	VDE, CCC, EAC	VDE, CCC	VDE, CCC	VDE, CCC, EAC
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
SC10G

Sales code:
104G8000

Compressor Design

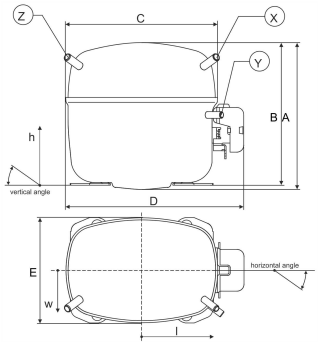
Oil type	**POE**	Winding resistance main	**7.9 Ohm**
Oil viscosity	**22cSt**	Winding resistance aux	**14 Ohm**
Oil quantity	**550 / 18.60fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**1,510 cm3 / 51.06fl.oz**	Max. discharge temp.	**130°C / 266°F**
Motor protection	**internal**		

Compressor Dimensions

Housing

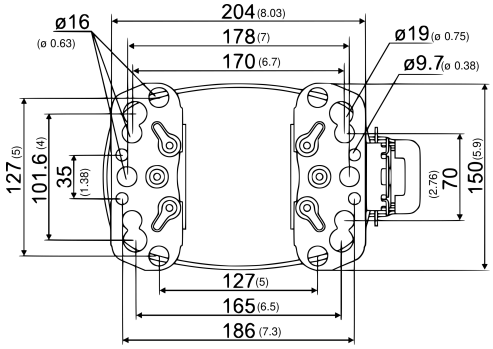
A Height	**199mm / 7.83in**
B Height	**193mm / 7.60in**
C Length shell	**218mm / 8.58in**
D Length w. cover	**255mm / 10.04in**
E Width	**151mm / 5.94in**

Find 3D Model here



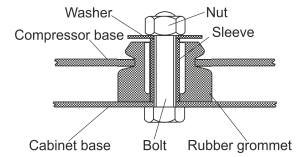
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.11–6.29 / 0.24–0.25in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	143°
Vertical angle ±2°	30°	0°	150°
Position l/h/w [mm]	107/173/55 / 4.21/6.81/2.17in	115/90/63 / 4.53/3.54/2.48in	-107/173/55 / -4.21/6.81/2.17in
Straight tube l. [mm]	12 / 0.47in	12 / 0.47in	12 / 0.47in

Mounting Accessories

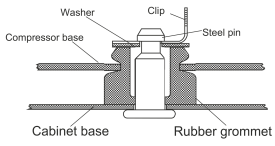


Dimensions in mm [in]

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
SC10G Configuration 1

Sales code:
104G8000

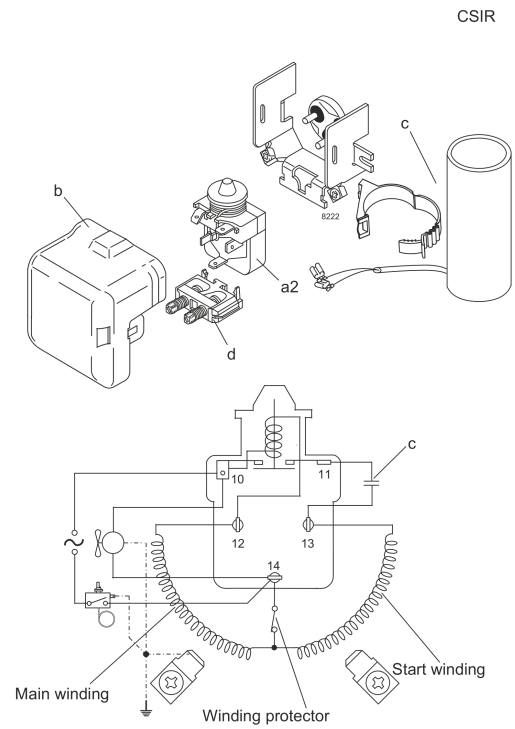
Configuration

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, EAC**
Starting device type	**relay**
Run capacitor	**-/-**
Start capacitor	**80 µF**
LRA (locked rotor amps / 4s/ U(N))	**10 A**
RLA (rated load amps / 1s/ U(N))	**2.1 A**
Cut in current (U(N))	**15 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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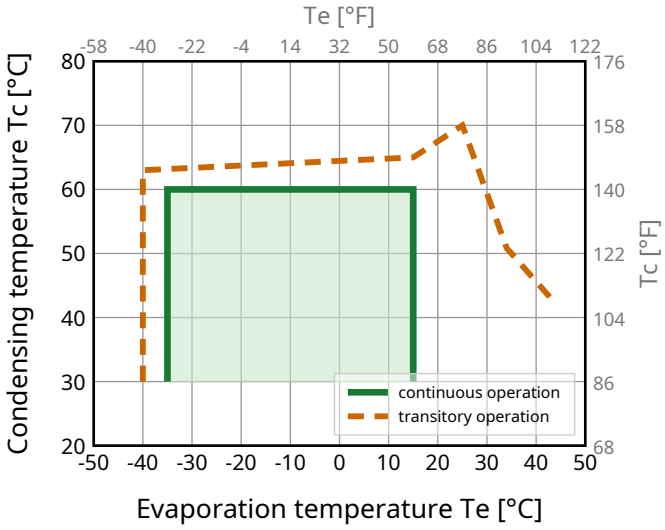
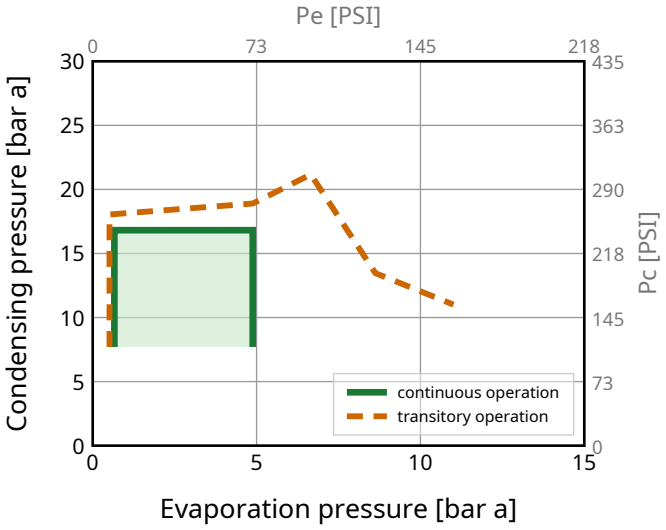
Components
a2 assy. relay 117U6002
c start capacitor (80µF) 117U5017
d cord relief 103N1004
b plastic cover 103N2009

Operation Pressure Range





Model
SC10G Configuration 1

Sales code:
104G8000

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	**168**	574	145	**0.86**	2.95	194	1.44	3.26	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**113**	386	97	**0.62**	2.13	181	1.42	2.70	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**71**	244	61	**0.61**	2.07	118	1.33	1.56	**EN12900 LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**492**	1680	423	**1.59**	5.42	310	1.80	10.72	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**369**	1260	318	**1.27**	4.35	290	1.72	8.91	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**438**	1496	377	**1.61**	5.49	272	1.67	10.23	**EN12900 MBP**

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	**54**	183	46	**0.49**	1.69	108	1.31	1.15
-30	-22	**102**	348	88	**0.69**	2.36	147	1.36	2.20
-20	-4	**247**	843	212	**1.15**	3.92	215	1.49	5.36
-10	14	**454**	1550	391	**1.67**	5.69	272	1.67	9.92
0	32	**721**	2460	620	**2.23**	7.61	323	1.87	15.91
10	50	**1045**	3566	899	**2.82**	9.61	371	2.08	23.39
15	59	**1228**	4189	1056	**3.11**	10.61	395	2.18	27.73

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

-35	-31	**23**	79	20	**0.25**	0.85	93	1.28	0.55
-30	-22	**60**	204	52	**0.43**	1.47	139	1.34	1.43
-20	-4	**183**	623	157	**0.83**	2.84	220	1.50	4.37
-10	14	**369**	1260	318	**1.27**	4.35	290	1.72	8.91
0	32	**618**	2108	531	**1.75**	5.97	353	1.98	15.06
10	50	**925**	3156	796	**2.25**	7.66	412	2.26	22.92
15	59	**1100**	3754	946	**2.49**	8.51	441	2.40	27.54

Model
SC10G Configuration 2

Sales code:
104G8000

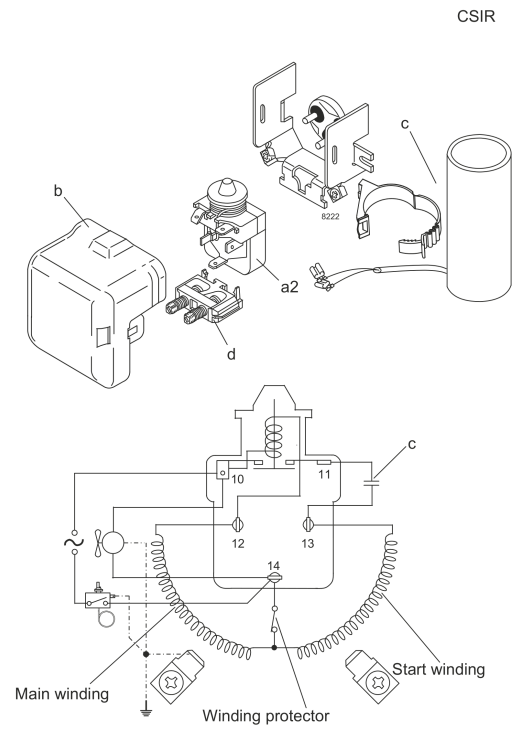
Configuration

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, EAC**
Starting device type	**relay**
Run capacitor	**-/-**
Start capacitor	**80 µF**
LRA (locked rotor amps / 4s/ U(N))	**10 A**
RLA (rated load amps / 1s/ U(N))	**2.1 A**
Cut in current (U(N))	**15 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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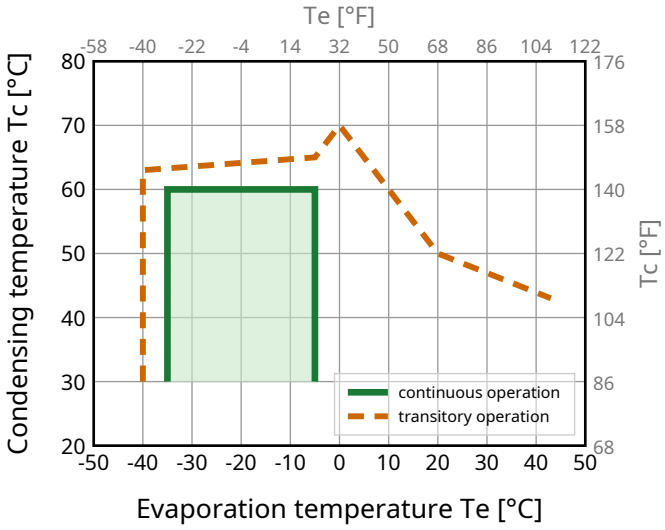
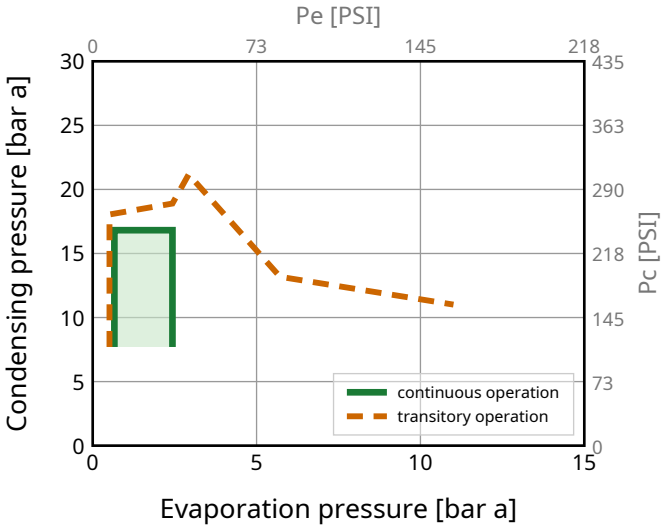
Components
a2 assy. relay 117U6002
c start capacitor (80µF) 117U5017
d cord relief 103N1004
b plastic cover 103N2009

Operation Pressure Range





Model

SC10G Configuration 2

Sales code:

104G8000

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	**197**	671	169	**0.86**	2.95	227	1.69	3.82	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**132**	452	114	**0.62**	2.13	212	1.66	3.16	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**84**	285	72	**0.61**	2.07	138	1.56	1.83	**EN12900 LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**576**	1965	495	**1.59**	5.42	363	2.10	12.54	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**432**	1475	372	**1.27**	4.35	339	2.02	10.42	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**513**	1750	441	**1.61**	5.49	319	1.95	11.96	**EN12900 MBP**

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	**63**	214	54	**0.49**	1.69	127	1.53	1.35
-30	-22	**119**	407	103	**0.69**	2.36	172	1.59	2.58
-25	-13	**195**	665	168	**0.91**	3.12	214	1.66	4.21
-20	-4	**289**	986	249	**1.15**	3.92	251	1.74	6.27
-15	5	**401**	1369	345	**1.40**	4.78	286	1.84	8.73
-10	14	**531**	1813	457	**1.67**	5.69	319	1.95	11.61
-5	23	**679**	2316	584	**1.94**	6.63	349	2.06	14.90

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

-35	-31	**27**	93	23	**0.25**	0.85	109	1.50	0.65
-30	-22	**70**	239	60	**0.43**	1.47	163	1.57	1.67
-25	-13	**132**	452	114	**0.62**	2.13	212	1.66	3.16
-20	-4	**214**	729	184	**0.83**	2.84	257	1.76	5.11
-15	5	**314**	1071	270	**1.05**	3.57	300	1.88	7.53
-10	14	**432**	1475	372	**1.27**	4.35	339	2.02	10.42
-5	23	**569**	1940	489	**1.51**	5.15	377	2.16	13.78

Model
SC10G Configuration 3

Sales code:
104G8000

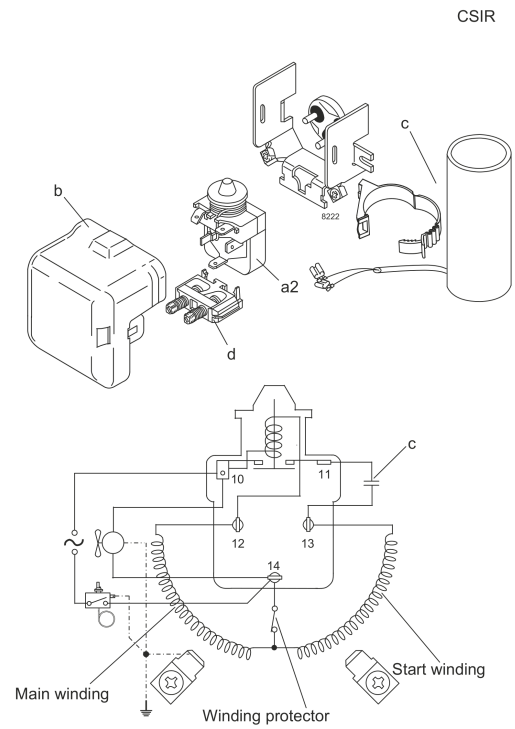
Configuration

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, CCC**
Starting device type	**relay**
Run capacitor	**-/-**
Start capacitor	**80 µF**
LRA (locked rotor amps / 4s/ U(N))	**10 A**
RLA (rated load amps / 1s/ U(N))	**2.1 A**
Cut in current (U(N))	**15 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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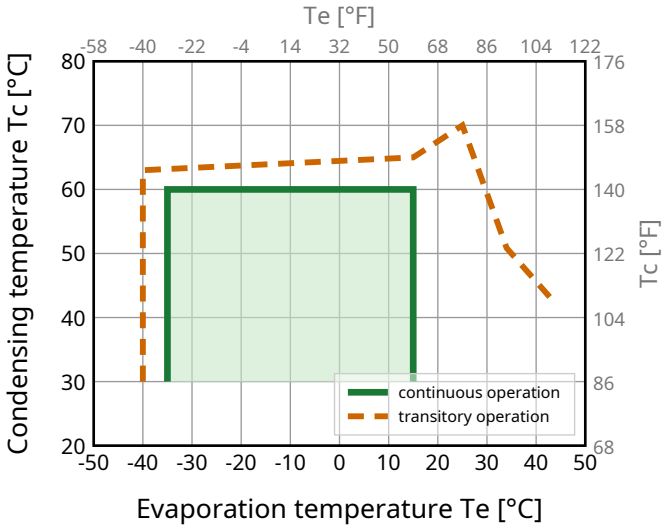
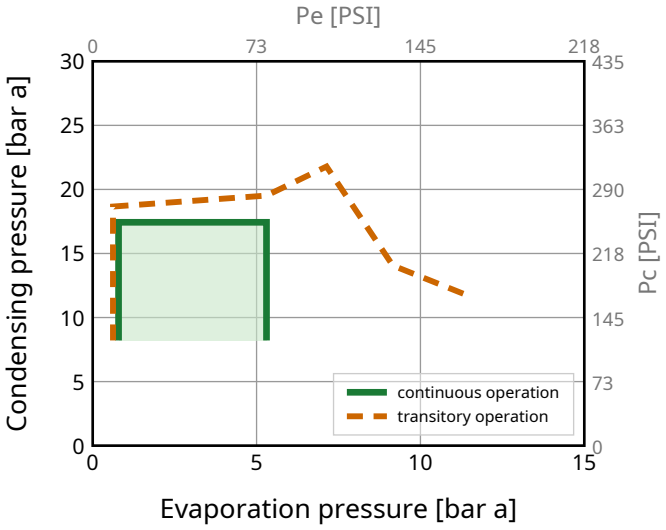
Components
a2 assy. relay 117U6002
c start capacitor (80µF) 117U5017
d cord relief 103N1004
b plastic cover 103N2009

Operation Pressure Range





Model
SC10G Configuration 3

Sales code:
104G8000

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	**187**	637	161	**0.89**	3.02	211	1.49	4.09	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**123**	419	106	**0.62**	2.13	197	1.44	3.40	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**79**	271	68	**0.62**	2.11	128	1.20	1.99	**EN12900 LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**517**	1764	445	**1.57**	5.36	329	1.90	12.89	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**384**	1310	330	**1.24**	4.23	309	1.83	10.77	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**457**	1558	393	**1.58**	5.38	290	1.76	12.36	**EN12900 MBP**

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	**60**	204	51	**0.51**	1.72	119	1.17	1.47
-30	-22	**113**	386	97	**0.71**	2.41	160	1.31	2.79
-20	-4	**266**	909	229	**1.15**	3.94	231	1.56	6.61
-10	14	**479**	1635	412	**1.66**	5.65	290	1.76	11.99
0	32	**748**	2553	643	**2.20**	7.51	340	1.94	18.95
10	50	**1070**	3652	920	**2.77**	9.44	387	2.10	27.56
15	59	**1250**	4266	1075	**3.05**	10.40	410	2.19	32.54

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

-35	-31	**26**	89	23	**0.25**	0.86	104	1.11	0.72
-30	-22	**67**	227	57	**0.44**	1.49	153	1.29	1.84
-20	-4	**195**	665	168	**0.82**	2.80	238	1.58	5.42
-10	14	**384**	1310	330	**1.24**	4.23	309	1.83	10.77
0	32	**631**	2152	542	**1.70**	5.78	372	2.05	17.93
10	50	**932**	3179	801	**2.17**	7.39	430	2.26	26.99
15	59	**1102**	3758	947	**2.40**	8.19	459	2.36	32.30

Model
SC10G Configuration 4

Sales code:
104G8000

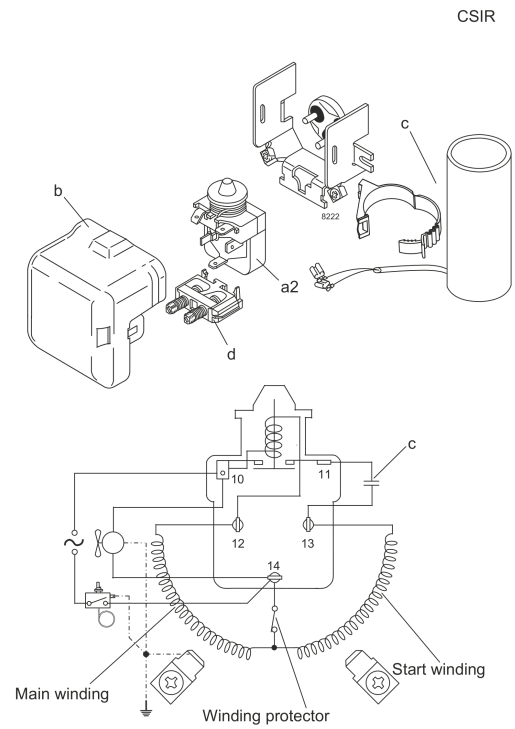
Configuration

Motor configuration	**CSIR**
Power supply (nominal)	**208-230 V/60 Hz 1~**
Refrigerant	**R513A**
Application	**LBP**
Voltage range	**198-253 V**
Starting torque	**HST**
Approvals	**VDE, CCC**
Starting device type	**relay**
Run capacitor	**-/-**
Start capacitor	**80 µF**
LRA (locked rotor amps / 4s/ U(N))	**10 A**
RLA (rated load amps / 1s/ U(N))	**2.1 A**
Cut in current (U(N))	**15 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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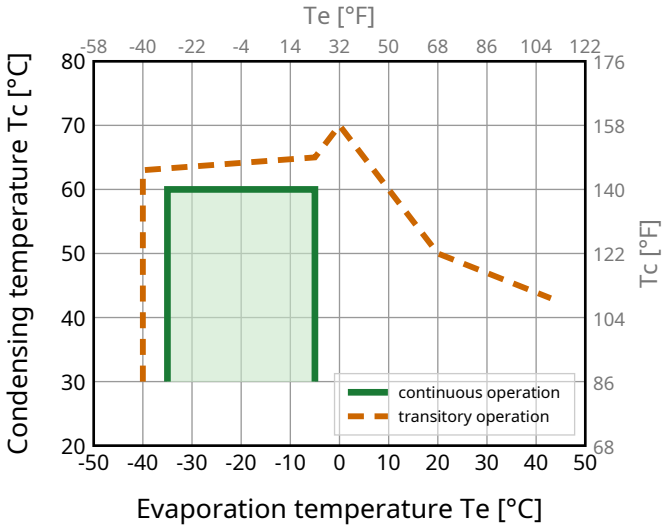
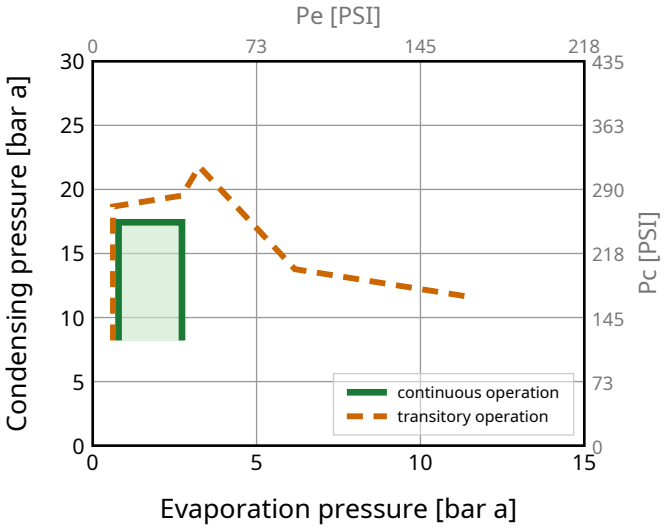
Components
a2 assy. relay 117U6002
c start capacitor (80µF) 117U5017
d cord relief 103N1004
b plastic cover 103N2009

Operation Pressure Range





Model
SC10G Configuration 4

Sales code:
104G8000

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	**218**	746	188	**0.88**	2.99	249	1.75	4.78	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**144**	491	124	**0.62**	2.10	233	1.70	3.98	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**93**	316	80	**0.60**	2.06	153	1.41	2.33	**EN12900 LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**605**	2064	520	**1.56**	5.33	387	2.23	15.08	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**449**	1532	386	**1.24**	4.21	364	2.15	12.60	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**534**	1823	459	**1.57**	5.35	340	2.07	14.46	**EN12900 MBP**

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	**70**	239	60	**0.49**	1.68	142	1.38	1.72
-30	-22	**132**	451	114	**0.70**	2.37	190	1.54	3.27
-25	-13	**213**	727	183	**0.91**	3.12	233	1.70	5.27
-20	-4	**312**	1063	268	**1.14**	3.90	272	1.83	7.73
-15	5	**428**	1459	368	**1.39**	4.74	308	1.96	10.65
-10	14	**560**	1912	482	**1.65**	5.62	340	2.07	14.03
-5	23	**710**	2422	610	**1.91**	6.53	371	2.18	17.86

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

-35	-31	**31**	105	26	**0.24**	0.83	126	1.32	0.84
-30	-22	**78**	266	67	**0.43**	1.46	182	1.52	2.15
-25	-13	**144**	491	124	**0.62**	2.10	233	1.70	3.98
-20	-4	**228**	778	196	**0.81**	2.77	280	1.86	6.33
-15	5	**330**	1126	284	**1.02**	3.48	324	2.01	9.21
-10	14	**449**	1532	386	**1.24**	4.21	364	2.15	12.60
-5	23	**585**	1997	503	**1.46**	4.97	401	2.28	16.52

Model
SC10G Configuration 5

Sales code:
104G8000

Configuration

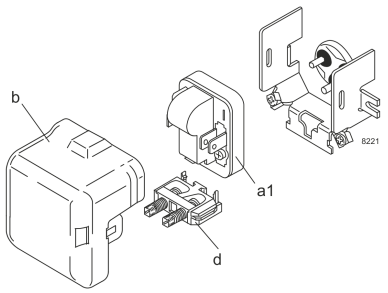
Motor configuration	**RSIR**
Power supply (nominal)	**220-240 V/50 Hz 1~**
Refrigerant	**R134a**
Application	**LBP+MBP+HBP**
Voltage range	**187-254 V**
Starting torque	**LST**
Approvals	**VDE, CCC, EAC**
Starting device type	**PTC**
Run capacitor	**-/-**
Start capacitor	**-/-**
LRA (locked rotor amps / 4s/ U(N))	**10 A**
RLA (rated load amps / 1s/ U(N))	**2.1 A**
Cut in current (U(N))	**15 A**

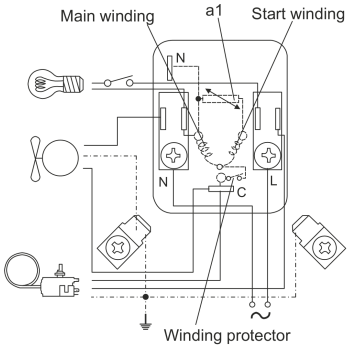
Ambient/ machine room temperatures minimum /maximum
Ambient temperature range: 10 - 43°C / 50 - 109°F
Machine room temp. compressor: 10 - 48°C / 50 - 118°F

System Cooling
fan 3m/s

Electrical Accessories / Wiring Diagram

RSIR

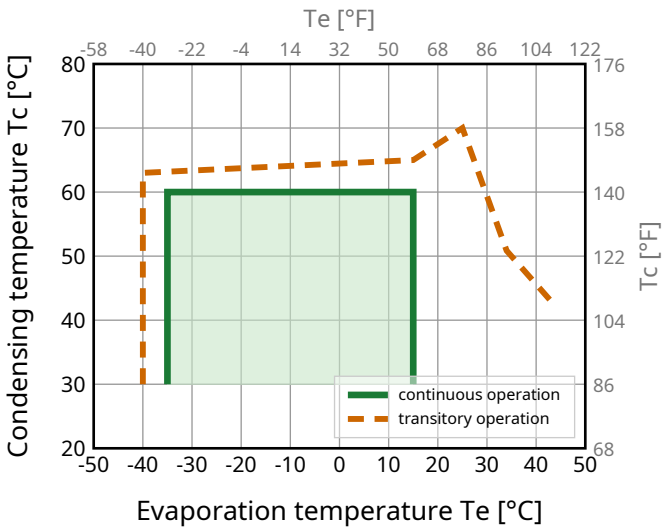


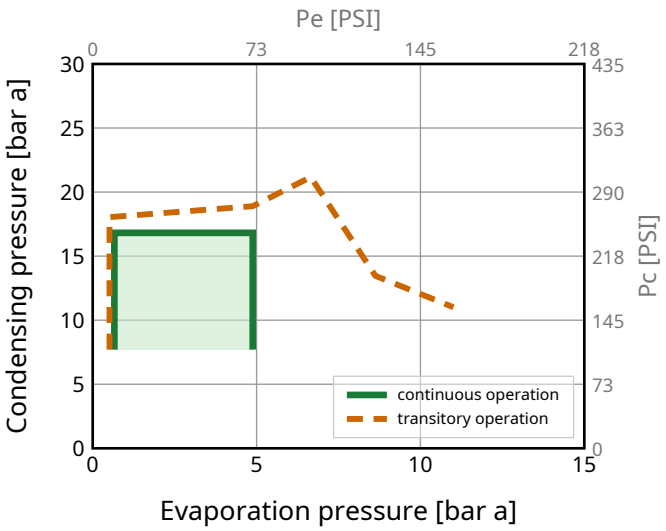


View full size

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

Operation Pressure Range





Model

SC10G Configuration 5

Sales code:

104G8000

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	**168**	574	145	**0.86**	2.95	194	1.44	3.26	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**113**	386	97	**0.62**	2.13	181	1.42	2.70	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**71**	244	61	**0.61**	2.07	118	1.33	1.56	**EN12900 LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**492**	1680	423	**1.59**	5.42	310	1.80	10.72	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**369**	1260	318	**1.27**	4.35	290	1.72	8.91	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**438**	1496	377	**1.61**	5.49	272	1.67	10.23	**EN12900 MBP**

Performance Tables

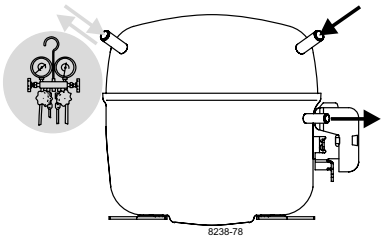
R134a, 220 V/50 Hz, RSIR, fan 3m/s

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	**54**	183	46	**0.49**	1.69	108	1.31	1.15
-30	-22	**102**	348	88	**0.69**	2.36	147	1.36	2.20
-20	-4	**247**	843	212	**1.15**	3.92	215	1.49	5.36
-10	14	**454**	1550	391	**1.67**	5.69	272	1.67	9.92
0	32	**721**	2460	620	**2.23**	7.61	323	1.87	15.91
10	50	**1045**	3566	899	**2.82**	9.61	371	2.08	23.39
15	59	**1228**	4189	1056	**3.11**	10.61	395	2.18	27.73

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

-35	-31	**23**	79	20	**0.25**	0.85	93	1.28	0.55
-30	-22	**60**	204	52	**0.43**	1.47	139	1.34	1.43
-20	-4	**183**	623	157	**0.83**	2.84	220	1.50	4.37
-10	14	**369**	1260	318	**1.27**	4.35	290	1.72	8.91
0	32	**618**	2108	531	**1.75**	5.97	353	1.98	15.06
10	50	**925**	3156	796	**2.25**	7.66	412	2.26	22.92
15	59	**1100**	3754	946	**2.49**	8.51	441	2.40	27.54



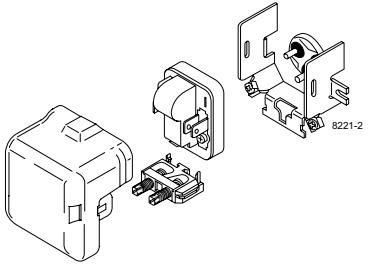
SC Compressors

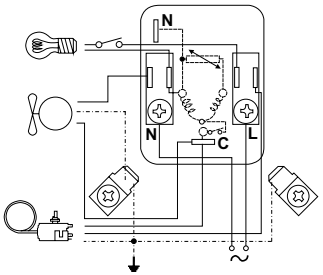
SECOP

Keep electrical equipment clear from oil, chemicals, and water

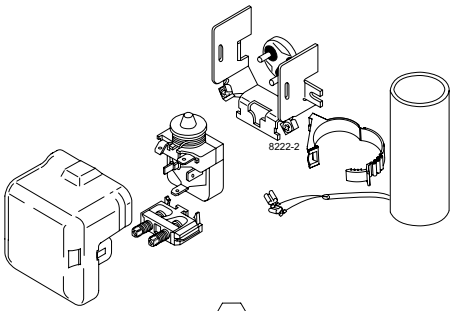
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

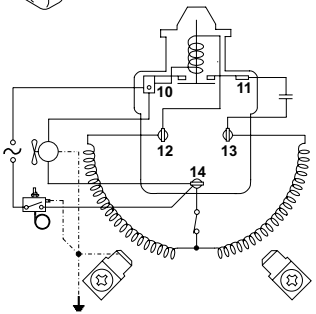
RSIR



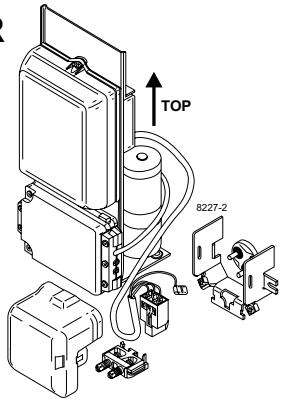


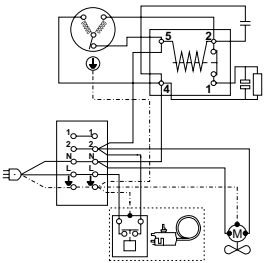
CSIR

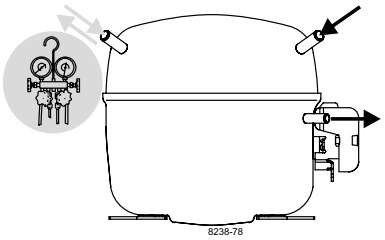




CSCR







SC Compressors

SECOP

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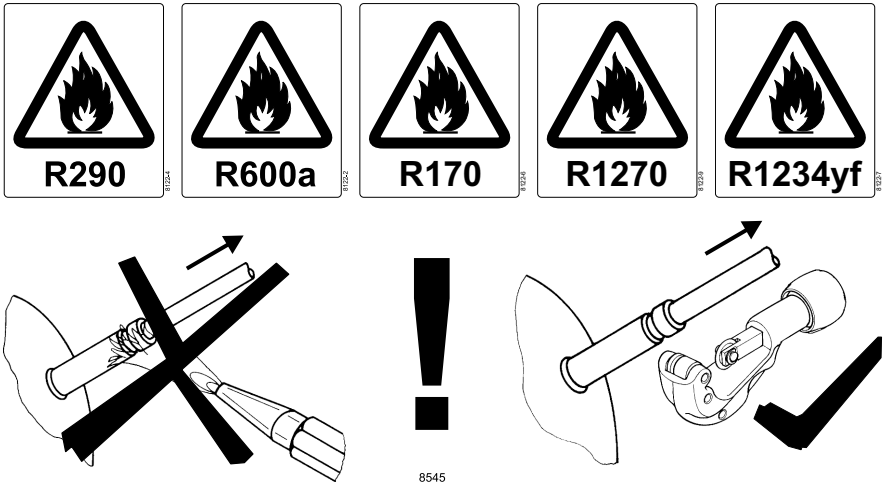
Service/Repair – R290, R600a, R170, R1270, R1234yf

(applies to all flammable refrigerants)



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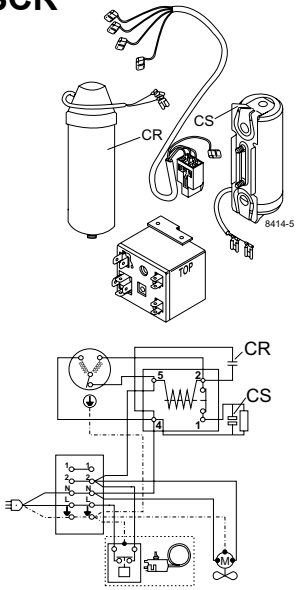

Dismantling, recycling, disposal: At the end of a compressor's lifecycle, proceed by separating and storing components according to their environmental impact. Parts that may cause pollution must be clearly identified and handled separately, ensuring appropriate disposal. Refrigerant gas must not be 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**