

Model

Designation	SC12G	220-240V/50Hz 1~ 220-240V/60Hz 1~	Sales code:	104G8240
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Compressor design

Oil type	Polyolester	Refrigerant(s)	R134a, R513A
Oil viscosity	22cST	Displacement	12,87cm ³ / 0,79cu.in
Oil quantity	546cm ³ / 18,5fl.oz	Compressors on pallet	80
Refr. charge - tech. limit	1300g / 45,9oz		
Free gas volume comp.	1510cm ³ / 51,1fl.oz		
Weight	12,7kg / 28lbs		
Motor protection	1# internal		
Winding resistance main	6,9Ω (at 25°C)		
Winding resistance aux	11Ω (at 25°C)		
Max. winding temp.	125°C / 257°F		
Max. discharge temp.	130°C / 266°F		



General - Configurations with SC12G

	Conf. 1	Conf. 2	Conf. 3	Conf. 4	Conf. 5
Motorconfiguration	CSIR	CSIR	CSIR	CSIR	RSIR
Power supply (nominal)	220-240V/50Hz	208-230V/60Hz	220-240V/50Hz	208-230V/60Hz	220-240V/50Hz
Number of phases	1	1	1	1	1
Voltage range	187-254V	198-254V	187-254V	187-253V	187-254V
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
Note	- / -				

Applications with SC12G

	Conf. 1	Conf. 2	Conf. 3	Conf. 4	Conf. 5
Refrigerant	R134a	R134a	R513A	R513A	R134a
Application	LBP+MBP+HBP	LBP	LBP+MBP+HBP	LBP	LBP+MBP+HBP
System cooling	fan 3m/s	fan 3m/s	fan 3m/s	fan 3m/s	fan 3m/s
Hot gas defrost	OK	OK	OK	OK	OK
Long interval pull down	OK	OK	OK	OK	OK

Electrical data - Configurations with SC12G

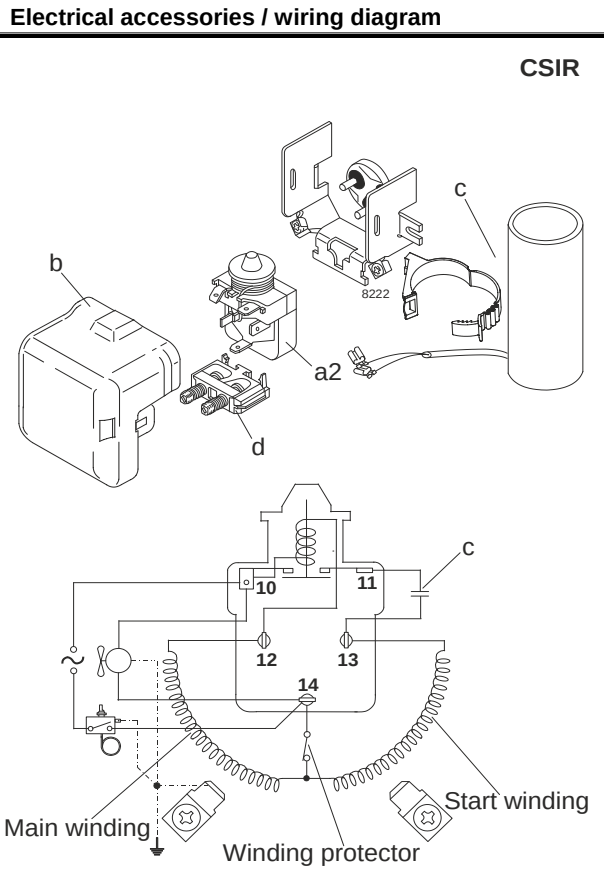
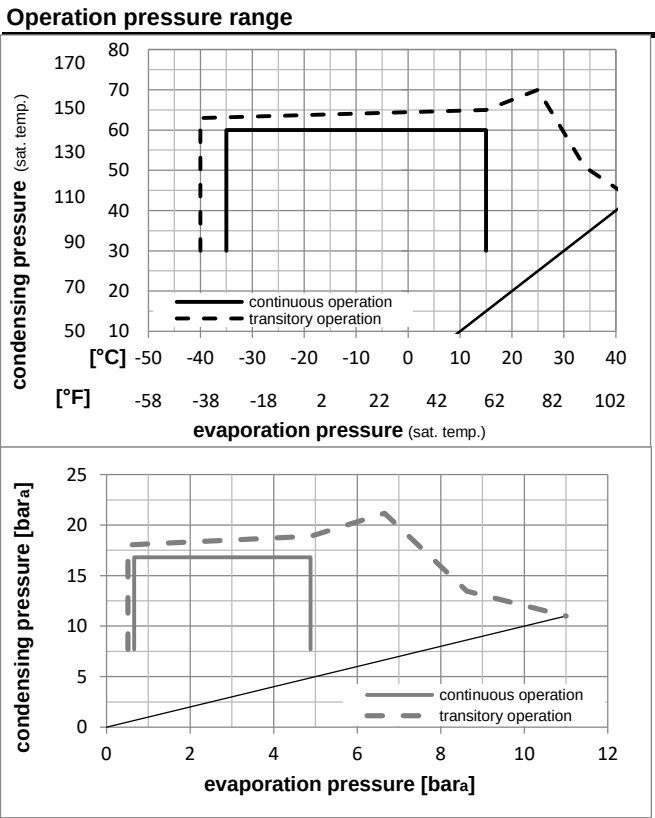
	Conf. 1	Conf. 2	Conf. 3	Conf. 4	Conf. 5
Starting device type	relay	relay	relay	relay	PTC
Run capacitor	-/-	-/-	-/-	-/-	-/-
Start capacitor	80μF	80μF	80μF	80μF	-/-
LRA (locked rotor amps / 4s)	13A	13A	13A	13A	12,6A
RLA (rated load amps / 1s)	2,5A	2,5A	2,5A	2,5A	2,5A
Cut in current	17A	17A	17A	17A	12,6A
IP class	21	21	21	21	21

Model				
Designation	SC12G	220-240V/50Hz	Conf. 1	Sales code: 104G8240

Configuration		Electrical accessories / wiring diagram	
Motorconfiguration	CSIR	CSIR	
Power supply (nominal)	220-240V/50Hz 1~		
Refrigerant	R134a		
Application	LBP+MBP+HBP		
Voltage range	187-254V		
Starting torque	HST		
Approvals	VDE		
	UL		
	CCC		
	EAC		
	KC		

Ambient temperatures / system cooling	
Ambient temperature min.:	10°C / 50°F
Ambient temperature max.:	43°C / 110°F

System cooling (n/a: outside limits)			
T ambient	LBP	MBP	HBP
32°C / 90°F	fan 3m/s	fan 3m/s	fan 3m/s
38°C / 100°F	fan 3m/s	fan 3m/s	fan 3m/s
43°C / 110°F	fan 3m/s	fan 3m/s	fan 3m/s



Components		
a2	assy. relay	117U6003
c	start capacitor (80μF)	117U5017
d	cord relief	103N1004
b	plastic cover	103N2009

Model

Designation	SC12G	220-240V/50Hz	Conf. 1	Sales code:	104G8240
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Optimization + standard conditions

220V/50Hz, CSIR, fan 3m/s, VDE, UL, CCC, EAC, KC

Evaporating pressure (saturation temperature)														
Condensing pressure (saturation temperature)										Power consumption				
Return gas temp.										Current consumption				
Liquid temp.										Ref. mass flow				
Cooling capacity										P1				
COP										I				
EER										m				
pe	pc	RGT	Tliq	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]		
[°C]	-23,3	54,4	32,2	32,2	247,5	845	213,0	1,03	3,52	0,89	240,3	1,87	4,81	ASHRAE LBP
[°F]	-10	130	90	90										
[°C]	-25	55	32	55	175,0	598	150,6	0,77	2,63	0,66	226,8	1,83	4,18	cecomaf LBP
[°F]	-13	131	89,6	131										
[°C]	-35	40	20	40	123,3	421	106,1	0,75	2,55	0,64	165,0	1,73	2,70	EN12900 LBP
[°F]	-31	104	68	104										
[°C]	-6,66	54,4	35	46,1	615,0	2100	529,3	1,60	5,47	1,38	383,9	2,34	13,42	ASHRAE MBP
[°F]	20	130	95	115										
[°C]	-10	55	32	55	464,1	1585	399,4	1,31	4,46	1,12	355,1	2,24	11,22	cecomaf MBP
[°F]	14	131	89,6	131										
[°C]	-10	45	20	45	547,2	1869	470,9	1,61	5,51	1,39	339,2	2,15	12,81	EN12900 MBP
[°F]	14	113	68	113										

Performance tables

220V/50Hz, CSIR, fan 3m/s, VDE, UL, CCC, EAC, KC

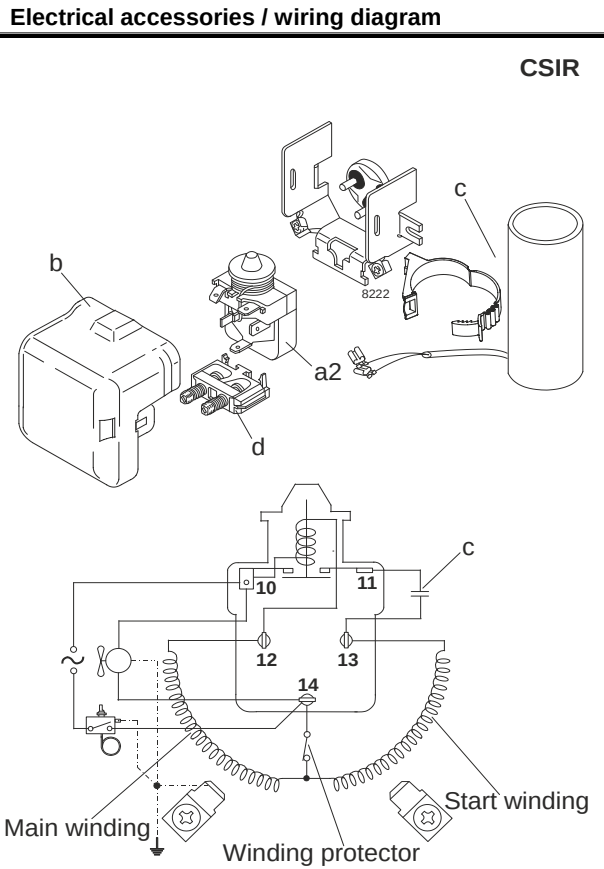
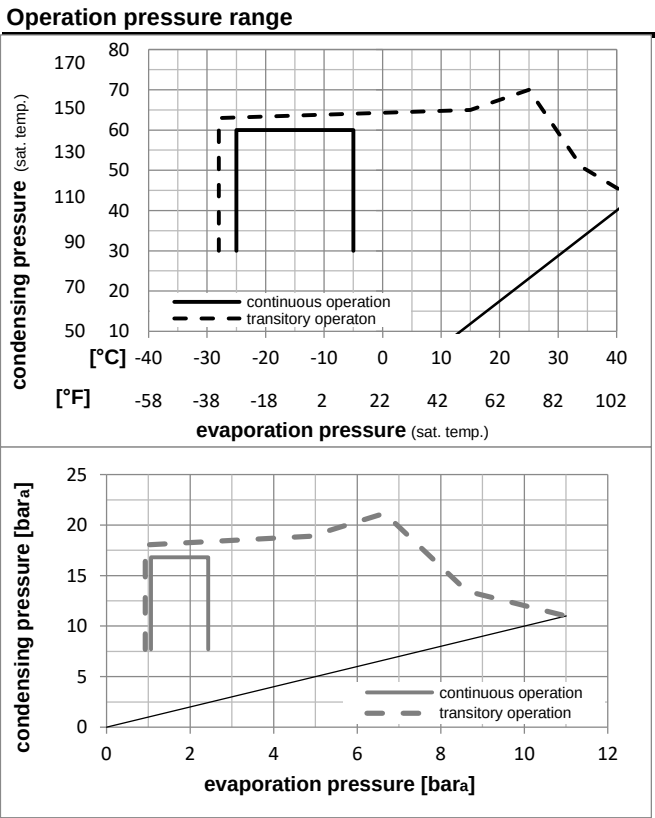
	pe	Cooling capacity				COP	EER		P1	I	m
	[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]
[°C / °F]	-35	-31	102,6	350	88,3	0,65	2,21	0,56	158,5	1,69	2,21
cond. pressure	-25	-13	234,7	802	202,0	1,03	3,51	0,89	228,1	1,84	5,09
pc= 45/113	-15	5	435,5	1487	374,8	1,44	4,93	1,24	301,4	2,03	9,49
return gas temp.	-10	14	567,7	1939	488,5	1,67	5,71	1,44	339,2	2,15	12,42
RGT= 32/90	0	32	907,8	3100	781,2	2,18	7,44	1,88	416,6	2,42	20,07
liquid temp	5	41	1120,5	3827	964,3	2,46	8,39	2,11	456,0	2,58	24,95
Tliq= 45/113	15	59	1643,6	5613	1414,5	3,07	10,48	2,64	535,5	2,93	37,23
[°C / °F]	-35	-31	64,6	221	55,6	0,44	1,49	0,38	147,9	1,63	1,54
cond. pressure	-25	-13	175,0	598	150,6	0,77	2,63	0,66	226,8	1,83	4,18
pc= 55/131	-15	5	348,0	1188	299,5	1,12	3,82	0,96	311,1	2,09	8,38
return gas temp	-10	14	464,1	1585	399,4	1,31	4,46	1,12	355,1	2,24	11,22
RGT= 32/90	0	32	767,6	2621	660,6	1,72	5,88	1,48	446,1	2,57	18,77
liquid temp	5	41	959,8	3278	826,0	1,95	6,65	1,68	493,0	2,76	23,65
Tliq= 55/131	15	59	1437,3	4909	1237,0	2,44	8,34	2,10	588,7	3,17	36,10

Model				
Designation	SC12G	208-230V/60Hz	Conf. 2	Sales code: 104G8240

Configuration	Electrical accessories / wiring diagram			
Motorconfiguration	CSIR			
Power supply (nominal)	208-230V/60Hz 1~			
Refrigerant	R134a			
Application	LBP			
Voltage range	198-254V			
Starting torque	HST			
Approvals	VDE			
	UL			
	CCC			
	EAC			
	KC			

Ambient temperatures / system cooling	
Ambient temperature min.:	10°C / 50°F
Ambient temperature max.:	43°C / 110°F

System cooling (n/a: outside limits)			
T ambient	LBP	MBP	HBP
32°C / 90°F	fan 3m/s	n/a	n/a
38°C / 100°F	fan 3m/s	n/a	n/a
43°C / 110°F	fan 3m/s	n/a	n/a



Components		
a2	assy. relay	117U6003
c	start capacitor (80μF)	117U5017
d	cord relief	103N1004
b	plastic cover	103N2009

Model

Designation	SC12G	208-230V/60Hz	Conf. 2	Sales code:	104G8240
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Optimization + standard conditions

220V/60Hz, CSIR, fan 3m/s, VDE, UL, CCC, EAC, KC

Evaporating pressure (saturation temperature)														
Condensing pressure (saturation temperature)										Power consumption				
Return gas temp.										Current consumption				
Liquid temp.										Ref. mass flow				
Cooling capacity										P1				
COP										I				
EER										m				
pe	pc	RGT	Tliq	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]		
[°C]	[°F]													
-23,3	54,4	32,2	32,2	288,0	983	247,8	1,03	3,51	0,88	280,6	2,06	5,59	ASHRAE LBP	
-10	130	90	90											
-25	55	32	55	203,3	694	175,0	0,77	2,62	0,66	264,7	2,01	4,86	cecomaf LBP	
-13	131	89,6	131											
-35	40	20	40	142,9	488	123,0	0,74	2,54	0,64	192,4	1,90	3,14	EN12900 LBP	
-31	104	68	104											
-6,66	54,4	35	46,1	718,1	2452	618,0	1,60	5,47	1,38	448,6	2,57	15,67	ASHRAE MBP	
20	130	95	115											
-10	55	32	55	541,6	1850	466,1	1,31	4,46	1,12	414,9	2,46	13,10	cecomaf MBP	
14	131	89,6	131											
-10	45	20	45	638,9	2182	549,8	1,61	5,51	1,39	396,3	2,36	14,95	EN12900 MBP	
14	113	68	113											

Performance tables

220V/60Hz, CSIR, fan 3m/s, VDE, UL, CCC, EAC, KC

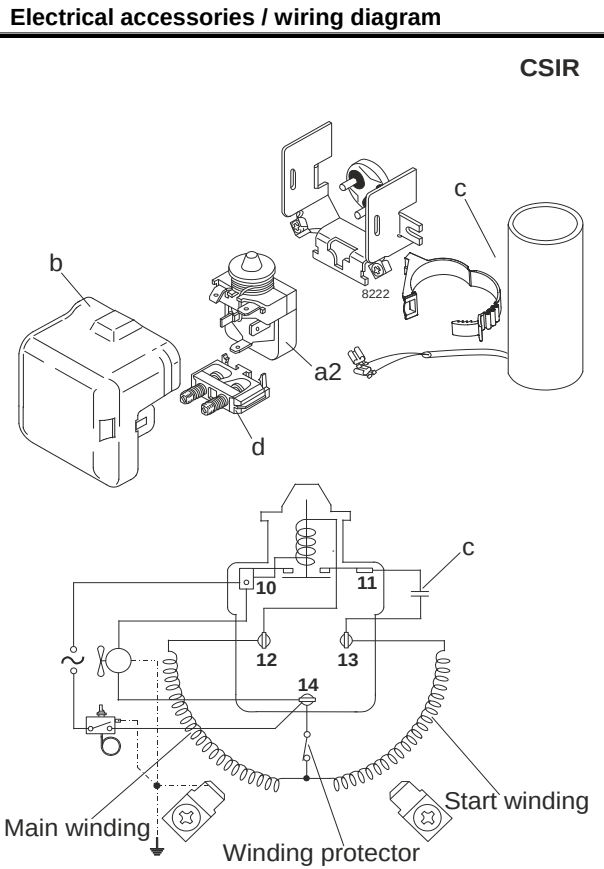
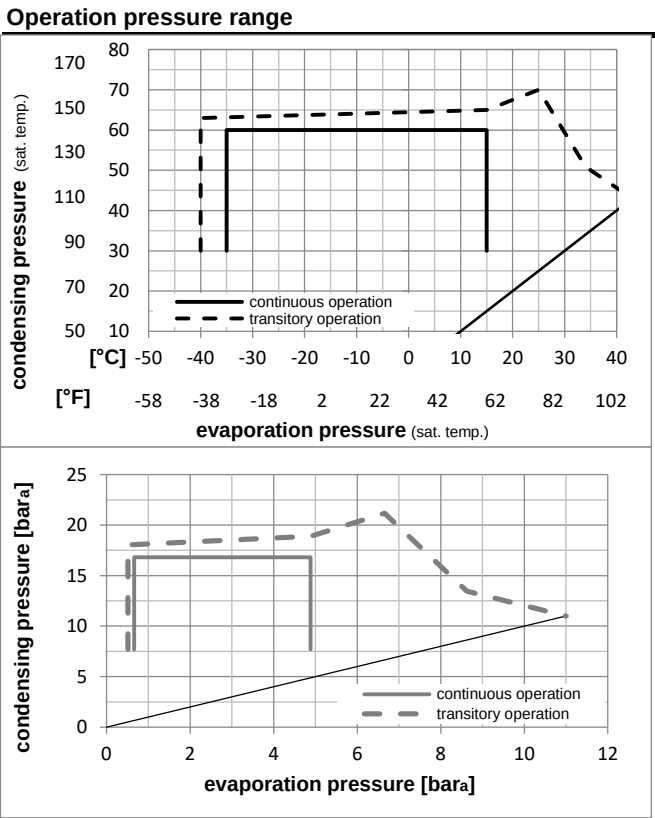
	pe	Cooling capacity				COP	EER	P1			I	m
	[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]	
[°C / °F]	-35	-31	118,7	405	102,2	0,64	2,19	0,55	184,8	1,86	2,56	
cond. pressure	-30	-22	187,4	640	161,2	0,83	2,84	0,72	224,9	1,93	4,05	
pc= 45/113	-25	-13	273,3	933	235,2	1,03	3,51	0,88	266,3	2,02	5,92	
return gas temp.	-23,3	-10	306,9	1048	264,1	1,09	3,74	0,94	280,6	2,05	6,66	
RGT= 32/90	-20	-4	379,3	1295	326,4	1,23	4,20	1,06	308,7	2,12	8,24	
liquid temp	-15	5	508,2	1735	437,3	1,44	4,93	1,24	352,1	2,23	11,08	
Tliq= 45/113	-5	23	846,1	2889	728,1	1,92	6,55	1,65	441,2	2,51	18,60	
[°C / °F]	-35	-31	74,2	254	63,9	0,43	1,47	0,37	172,4	1,79	1,77	
cond. pressure	-30	-22	131,0	448	112,8	0,60	2,06	0,52	217,7	1,89	3,13	
pc= 55/131	-25	-13	203,3	694	175,0	0,77	2,62	0,66	264,7	2,01	4,86	
return gas temp	-23,3	-10	232,0	792	199,6	0,83	2,82	0,71	281,0	2,06	5,55	
RGT= 32/90	-20	-4	294,0	1004	253,0	0,94	3,20	0,81	313,3	2,15	7,05	
liquid temp	-15	5	405,8	1386	349,2	1,12	3,81	0,96	363,4	2,30	9,77	
Tliq= 55/131	-5	23	704,3	2405	606,1	1,51	5,14	1,30	467,5	2,64	17,12	

Model				
Designation	SC12G	220-240V/50Hz	Conf. 3	Sales code: 104G8240

Configuration		Electrical accessories / wiring diagram		
Motorconfiguration	CSIR	CSIR		
Power supply (nominal)	220-240V/50Hz 1~			
Refrigerant	R513A			
Application	LBP+MBP+HBP			
Voltage range	187-254V			
Starting torque	HST			
Approvals	VDE			
	UL			
	CCC			

Ambient temperatures / system cooling	
Ambient temperature min.:	10°C / 50°F
Ambient temperature max.:	43°C / 110°F

System cooling (n/a: outside limits)			
T ambient	LBP	MBP	HBP
32°C / 90°F	fan 3m/s	fan 3m/s	fan 3m/s
38°C / 100°F	fan 3m/s	fan 3m/s	fan 3m/s
43°C / 110°F	fan 3m/s	fan 3m/s	fan 3m/s



Components		
a2	assy. relay	117U6003
c	start capacitor (80μF)	117U5017
d	cord relief	103N1004
b	plastic cover	103N2009

Model

Designation	SC12G	220-240V/50Hz	Conf. 3	Sales code:	104G8240
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Optimization + standard conditions

220V/50Hz, CSIR, fan 3m/s, VDE, UL, CCC

Evaporating pressure (saturation temperature)														
Condensing pressure (saturation temperature)										Power consumption				
Return gas temp.										Current consumption				
Liquid temp.										Ref. mass flow				
Cooling capacity										COP				
										EER				
										P1				
										I				
										m				
	pe	pc	RGT	Tliq	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]	
[°C]	-23,3	54,4	32,2	32,2	275,8	942	237,4	1,07	3,64	0,92	258,5	1,90	5,94	ASHRAE LBP
[°F]	-10	130	90	90										
[°C]	-25	55	32	55	190,1	649	163,6	0,78	2,65	0,67	244,6	1,85	5,20	cecomaf LBP
[°F]	-13	131	89,6	131										
[°C]	-35	40	20	40	139,6	477	120,2	0,78	2,68	0,68	178,0	1,62	3,45	EN12900 LBP
[°F]	-31	104	68	104										
[°C]	-6,66	54,4	35	46,1	646,9	2209	556,7	1,60	5,45	1,37	405,3	2,41	15,84	ASHRAE MBP
[°F]	20	130	95	115										
[°C]	-10	55	32	55	482,7	1649	415,4	1,28	4,38	1,10	376,3	2,31	13,35	cecomaf MBP
[°F]	14	131	89,6	131										
[°C]	-10	45	20	45	573,0	1957	493,1	1,60	5,46	1,38	358,4	2,25	15,19	EN12900 MBP
[°F]	14	113	68	113										

Performance tables

220V/50Hz, CSIR, fan 3m/s, VDE, UL, CCC

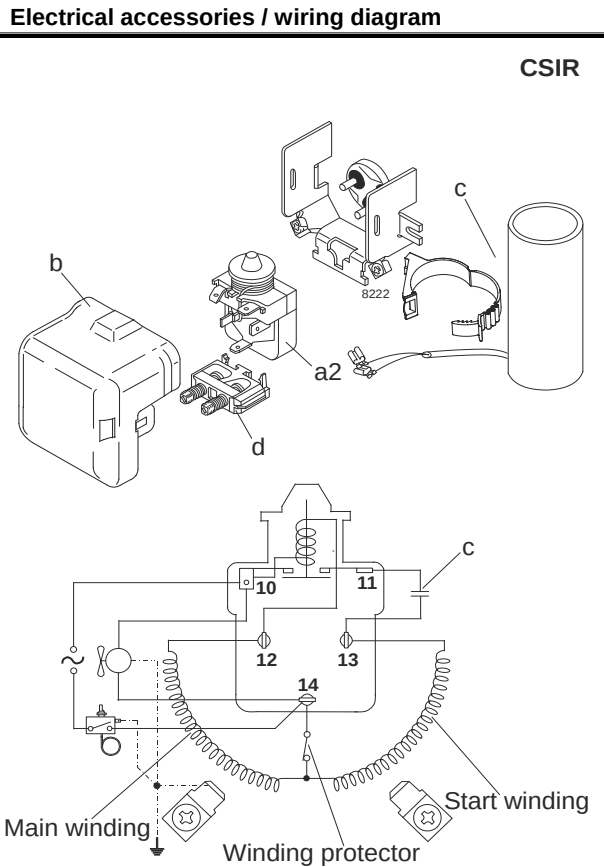
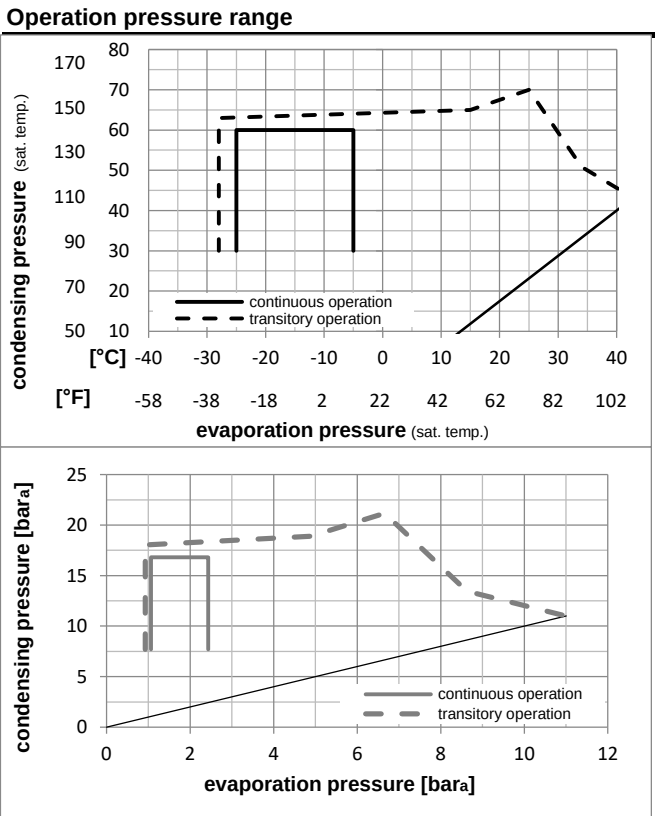
	pe	Cooling capacity			COP			EER			P1	I	m
	[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]		
[°C / °F]	-35	-31	117,5	401	101,1	0,68	2,34	0,59	171,6	1,60	2,85		
cond. pressure	-25	-13	256,8	877	221,0	1,05	3,59	0,90	244,4	1,85	6,26		
pc= 45/113	-15	5	464,3	1586	399,6	1,45	4,96	1,25	319,9	2,12	11,38		
return gas temp.	-10	14	599,1	2046	515,6	1,67	5,71	1,44	358,4	2,25	14,73		
RGT= 32/90	0	32	942,4	3218	811,0	2,16	7,37	1,86	436,5	2,52	23,37		
liquid temp	5	41	1155,3	3945	994,2	2,43	8,29	2,09	475,8	2,66	28,82		
Tliq= 45/113	15	59	1674,8	5720	1441,4	3,02	10,31	2,60	554,6	2,94	42,37		
[°C / °F]	-35	-31	74,9	256	64,5	0,46	1,58	0,40	161,8	1,56	2,04		
cond. pressure	-25	-13	190,1	649	163,6	0,78	2,65	0,67	244,6	1,85	5,20		
pc= 55/131	-15	5	366,2	1251	315,1	1,10	3,77	0,95	331,5	2,16	10,09		
return gas temp	-10	14	482,7	1649	415,4	1,28	4,38	1,10	376,3	2,31	13,35		
RGT= 32/90	0	32	784,0	2678	674,7	1,68	5,72	1,44	468,0	2,63	21,90		
liquid temp	5	41	973,3	3324	837,6	1,89	6,46	1,63	514,7	2,80	27,35		
Tliq= 55/131	15	59	1440,2	4919	1239,5	2,36	8,07	2,03	609,5	3,13	41,13		

Model				
Designation	SC12G	208-230V/60Hz	Conf. 4	Sales code: 104G8240

Configuration	Electrical accessories / wiring diagram			
Motorconfiguration	CSIR	CSIR		
Power supply (nominal)	208-230V/60Hz 1~			
Refrigerant	R513A			
Application	LBP			
Voltage range	187-253V			
Starting torque	HST			
Approvals	VDE			
	UL			
	CCC			

Ambient temperatures / system cooling	
Ambient temperature min.:	10°C / 50°F
Ambient temperature max.:	43°C / 110°F

System cooling (n/a: outside limits)			
T ambient	LBP	MBP	HBP
32°C / 90°F	fan 3m/s	n/a	n/a
38°C / 100°F	fan 3m/s	n/a	n/a
43°C / 110°F	fan 3m/s	n/a	n/a



Components		
a2	assy. relay	117U6003
c	start capacitor (80μF)	117U5017
d	cord relief	103N1004
b	plastic cover	103N2009

Model

Designation	SC12G	208-230V/60Hz	Conf. 4	Sales code:	104G8240
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Optimization + standard conditions

220V/60Hz, CSIR, fan 3m/s, VDE, UL, CCC

Evaporating pressure (saturation temperature)														
Condensing pressure (saturation temperature)										Power consumption				
Return gas temp.										Current consumption				
Liquid temp.										Ref. mass flow				
Cooling capacity										COP				
										EER				
										P1				
										I				
										m				
	pe	pc	RGT	Tliq	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]	
[°C]	-23,3	54,4	32,2	32,2	320,8	1095	276,1	1,05	3,57	0,90	306,8	2,11	6,90	ASHRAE LBP
[°F]	-10	130	90	90										
[°C]	-25	55	32	55	220,8	754	190,0	0,76	2,60	0,65	290,6	2,06	6,05	cecomaf LBP
[°F]	-13	131	89,6	131										
[°C]	-35	40	20	40	162,0	553	139,4	0,77	2,62	0,66	211,5	1,80	4,01	EN12900 LBP
[°F]	-31	104	68	104										
[°C]	-6,66	54,4	35	46,1	755,0	2578	649,8	1,58	5,41	1,36	477,0	2,67	18,49	ASHRAE MBP
[°F]	20	130	95	115										
[°C]	-10	55	32	55	563,1	1923	484,6	1,27	4,34	1,09	443,4	2,56	15,57	cecomaf MBP
[°F]	14	131	89,6	131										
[°C]	-10	45	20	45	668,7	2284	575,5	1,58	5,41	1,36	422,4	2,49	17,72	EN12900 MBP
[°F]	14	113	68	113										

Performance tables

220V/60Hz, CSIR, fan 3m/s, VDE, UL, CCC

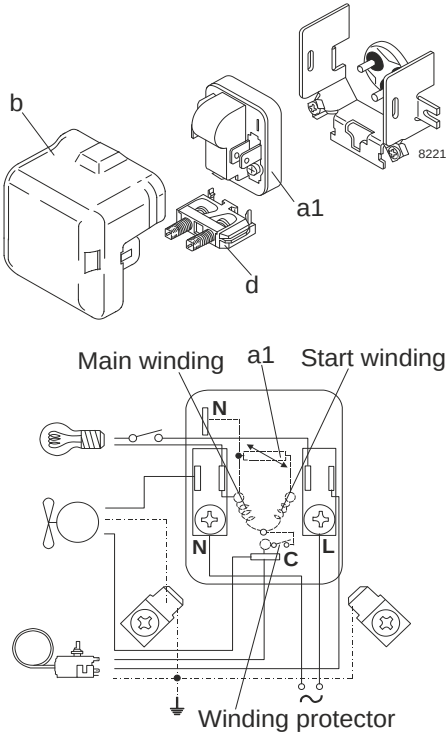
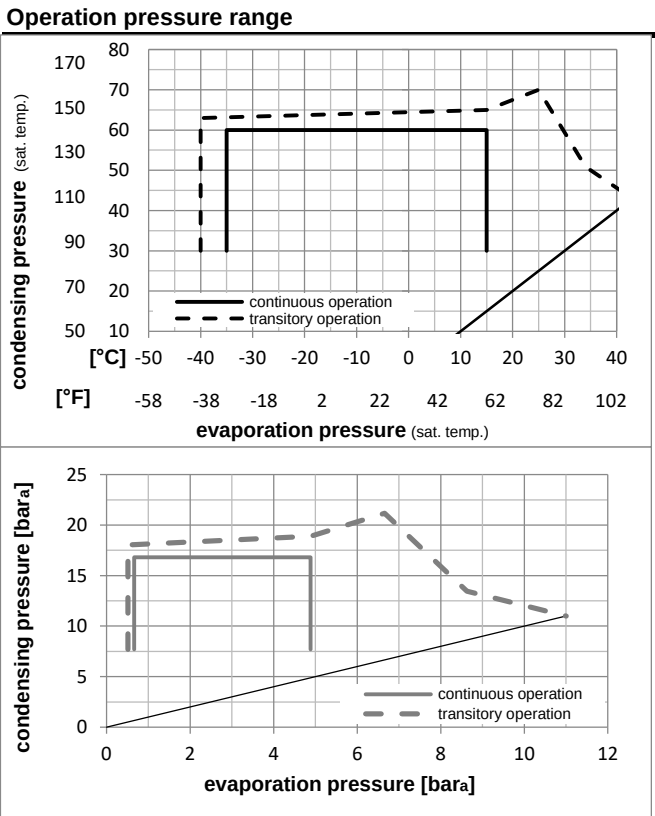
	pe	Cooling capacity			COP			EER			P1	I	m
	[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]		
[°C / °F]	-35	-31	136,0	465	117,1	0,67	2,27	0,57	204,5	1,77	3,30		
cond. pressure	-30	-22	208,8	713	179,7	0,85	2,89	0,73	246,9	1,91	5,08		
pc= 45/113	-25	-13	298,9	1021	257,3	1,03	3,52	0,89	289,9	2,05	7,29		
return gas temp.	-23,3	-10	334,0	1141	287,4	1,10	3,74	0,94	304,7	2,10	8,15		
RGT= 32/90	-20	-4	408,9	1397	351,9	1,23	4,19	1,06	333,6	2,20	9,99		
liquid temp	-15	5	541,5	1849	466,0	1,43	4,90	1,23	377,7	2,34	13,27		
Tliq= 45/113	-5	23	884,8	3022	761,5	1,89	6,47	1,63	467,4	2,64	21,84		
[°C / °F]	-35	-31	86,2	294	74,2	0,44	1,52	0,38	193,9	1,74	2,35		
cond. pressure	-30	-22	145,9	498	125,6	0,60	2,06	0,52	241,7	1,90	3,99		
pc= 55/131	-25	-13	220,8	754	190,0	0,76	2,60	0,65	290,6	2,06	6,05		
return gas temp	-23,3	-10	250,2	855	215,3	0,81	2,78	0,70	307,5	2,11	6,86		
RGT= 32/90	-20	-4	313,6	1071	269,9	0,92	3,14	0,79	340,6	2,22	8,61		
liquid temp	-15	5	426,8	1458	367,3	1,09	3,72	0,94	391,5	2,39	11,76		
Tliq= 55/131	-5	23	725,2	2477	624,1	1,46	4,99	1,26	496,1	2,74	20,14		

Model				
Designation	SC12G	220-240V/50Hz	Conf. 5	Sales code: 104G8240

Configuration	Electrical accessories / wiring diagram			
Motorconfiguration	RSIR	RSIR		
Power supply (nominal)	220-240V/50Hz 1~			
Refrigerant	R134a			
Application	LBP+MBP+HBP			
Voltage range	187-254V			
Starting torque	LST			
Approvals	VDE			
	UL			
	CCC			
	EAC			
	KC			

Ambient temperatures / system cooling	
Ambient temperature min.:	10°C / 50°F
Ambient temperature max.:	43°C / 110°F

System cooling (n/a: outside limits)			
T ambient	LBP	MBP	HBP
32°C / 90°F	fan 3m/s	fan 3m/s	fan 3m/s
38°C / 100°F	fan 3m/s	fan 3m/s	fan 3m/s
43°C / 110°F	fan 3m/s	fan 3m/s	fan 3m/s



Components		
a1	PTC starter (220V, 250hm, 6.3mm)	103N0011
d	cord relief	103N1004
b	plastic cover	103N2009

Model

Designation	SC12G	220-240V/50Hz	Conf. 5	Sales code:	104G8240
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Optimization + standard conditions

220V/50Hz, RSIR, fan 3m/s, VDE, UL, CCC, EAC, KC

Evaporating pressure (saturation temperature)														
Condensing pressure (saturation temperature)										Power consumption				
Return gas temp.										Current consumption				
Liquid temp.										Ref. mass flow				
Cooling capacity										COP				
										EER				
										P1				
										I				
										m				
	pe	pc	RGT	Tliq	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]	
[°C]	-23,3	54,4	32,2	32,2	247,5	845	213,0	1,03	3,52	0,89	240,3	1,87	4,81	ASHRAE LBP
[°F]	-10	130	90	90										
[°C]	-25	55	32	55	175,0	598	150,6	0,77	2,63	0,66	226,8	1,83	4,18	cecomaf LBP
[°F]	-13	131	89,6	131										
[°C]	-35	40	20	40	123,3	421	106,1	0,75	2,55	0,64	165,0	1,73	2,70	EN12900 LBP
[°F]	-31	104	68	104										
[°C]	-6,66	54,4	35	46,1	615,0	2100	529,3	1,60	5,47	1,38	383,9	2,34	13,42	ASHRAE MBP
[°F]	20	130	95	115										
[°C]	-10	55	32	55	464,1	1585	399,4	1,31	4,46	1,12	355,1	2,24	11,22	cecomaf MBP
[°F]	14	131	89,6	131										
[°C]	-10	45	20	45	547,2	1869	470,9	1,61	5,51	1,39	339,2	2,15	12,81	EN12900 MBP
[°F]	14	113	68	113										

Performance tables

220V/50Hz, RSIR, fan 3m/s, VDE, UL, CCC, EAC, KC

	pe	Cooling capacity			COP		EER		P1		I	m
	[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]	
[°C / °F]	-35	-31	102,6	350	88,3	0,65	2,21	0,56	158,5	1,69	2,21	
cond. pressure	-25	-13	234,7	802	202,0	1,03	3,51	0,89	228,1	1,84	5,09	
pc= 45/113	-15	5	435,5	1487	374,8	1,44	4,93	1,24	301,4	2,03	9,49	
return gas temp.	-10	14	567,7	1939	488,5	1,67	5,71	1,44	339,2	2,15	12,42	
RGT= 32/90	0	32	907,8	3100	781,2	2,18	7,44	1,88	416,6	2,42	20,07	
liquid temp	5	41	1120,5	3827	964,3	2,46	8,39	2,11	456,0	2,58	24,95	
Tliq= 45/113	15	59	1643,6	5613	1414,5	3,07	10,48	2,64	535,5	2,93	37,23	
[°C / °F]	-35	-31	64,6	221	55,6	0,44	1,49	0,38	147,9	1,63	1,54	
cond. pressure	-25	-13	175,0	598	150,6	0,77	2,63	0,66	226,8	1,83	4,18	
pc= 55/131	-15	5	348,0	1188	299,5	1,12	3,82	0,96	311,1	2,09	8,38	
return gas temp	-10	14	464,1	1585	399,4	1,31	4,46	1,12	355,1	2,24	11,22	
RGT= 32/90	0	32	767,6	2621	660,6	1,72	5,88	1,48	446,1	2,57	18,77	
liquid temp	5	41	959,8	3278	826,0	1,95	6,65	1,68	493,0	2,76	23,65	
Tliq= 55/131	15	59	1437,3	4909	1237,0	2,44	8,34	2,10	588,7	3,17	36,10	