

## Model

Designation	<b>SC10GHH</b>	220-240V/50Hz 1~	Sales code:	<b>104G8071</b>
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## Compressor design

Oil type	Polyolester	Refrigerant(s)	<b>R134a</b>
Oil viscosity	22cST	Displacement	10,29cm <sup>3</sup> / 0,63cu.in
Oil quantity	449cm <sup>3</sup> / 15,2fl.oz	Compressors on pallet	80
Refr. charge - tech. limit	1300g / 45,9oz		
Free gas volume comp.	1460cm <sup>3</sup> / 49,4fl.oz		
Weight	12,5kg / 27,6lbs		
Motor protection	1# internal		
Winding resistance main	10,9Ω (at 25°C)		
Winding resistance aux	37,3Ω (at 25°C)		
Max. winding temp.	125°C / 257°F		
Max. discharge temp.	135°C / 275°F		



## General - Configurations with SC10GHH

	<b>Conf. 1</b>
Motorconfiguration	CSCR
Power supply (nominal)	220-240V/50Hz
Number of phases	1
Voltage range	198-254V
Approvals	VDE
Starting torque	HST
Note	- / -

## Applications with SC10GHH

	<b>Conf. 1</b>
Refrigerant	R134a
Application	HBP
System cooling	oil cooled
Hot gas defrost	OK
Long interval pull down	OK

## Electrical data - Configurations with SC10GHH

	<b>Conf. 1</b>
Starting device type	relay
Run capacitor	5μF
Start capacitor	40μF
LRA (locked rotor amps / 4s)	23,4A
RLA (rated load amps / 1s)	4,3A
Cut in current	23,4A

## Model

Designation

**SC10GHH**

220-240V/50Hz 1~

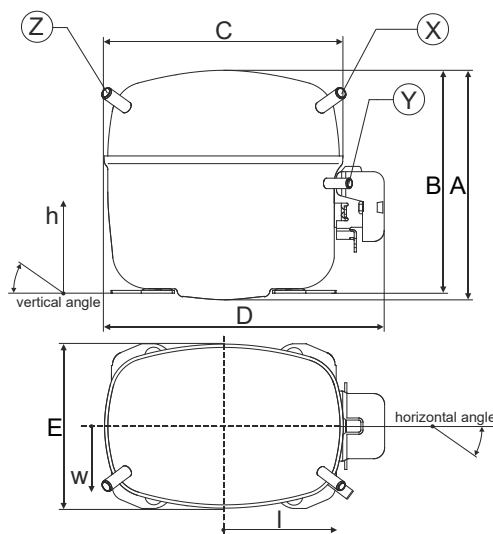
Sales code:

**104G8071**

## 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

Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 10,11-10,29	øi 8,11-8,29	øi 6,11-6,29
(i:inside, o:outside) [in]	øi 0,4-0,41	øi 0,32-0,33	øi 0,24-0,25
Material	copper	copper	copper
Horizontal angle ±2°	37°	37°	143°
Vertical angle ±2°	30°	0°	150°
Position l/h/w [mm]	107/183/55	115/100/63	-107/183/55
[in]	4,2/7,2/2,2	4,5/3,9/2,5	-4,2/7,2/2,2
Straight tube l. [mm]	12	12	12
[in]	0,5	0,5	0,5



## Compressor fixation



### Bolt joint



### Snap-on



## Mounting accessories

	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

## Application notes

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

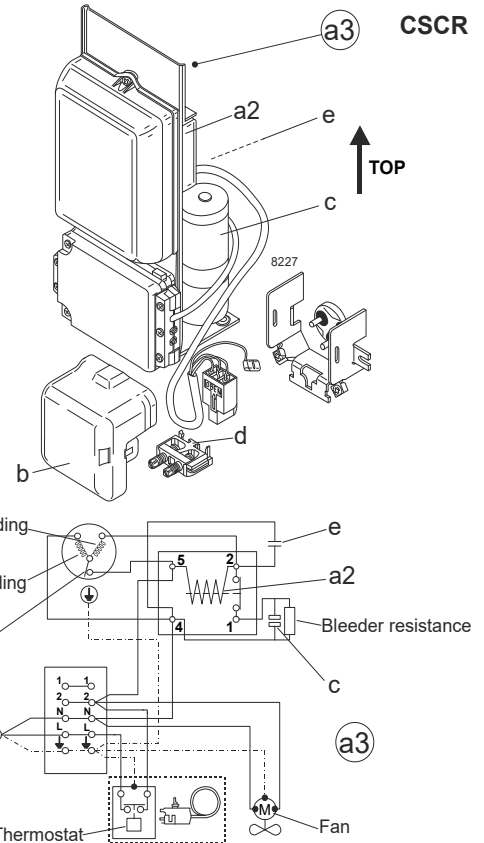
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## Electrical accessories / wiring diagram

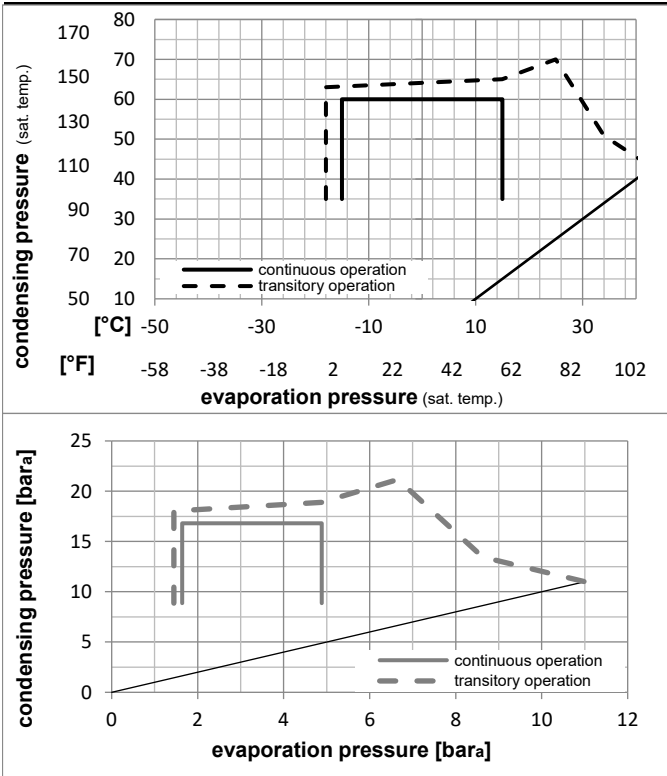


## Ambient/ machine room temperatures minimum /maximum

Ambient temperature range:	10 - 43°C / 50 - 110°F
Machine room temperature range:	10 - 48°C / 50 - 119°F
Compressor cooling:	fan 1,5m/s

## Operation Limits

### Operation pressure range



### Components

a3	SC starter kit	117-7025
b	plastic cover	103N2009
d	cord relief	103N1004

### Alternative components

a3	SC starter kit	117-7014
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## Optimization + standard conditions

R134a, 220V/50Hz, CSCR, fan 1,5m/s, VDE

		Evaporating pressure (saturation temperature)				Condensing pressure (saturation temperature)			Return gas temp.			Liquid temp.			Cooling capacity			COP	EER	Power consumption			
		pe	pc	RGT	Tliq	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	P1	I	m	[W]	[A]	[kg/h]						
[°C]	[°F]																						
7,2	45	54	35	46	931,7	3182	801,9	2,62	8,96	2,26	355,3	1,58	20,67									ASHRAE HBP	
5	41	55	32	55	762,1	2603	655,9	2,21	7,53	1,90	345,4	1,53	18,78									cecomaf HBP	
5	41	50	20	50	795,3	2716	684,4	2,41	8,23	2,07	330,2	1,47	20,04									EN12900 HBP	
-7	20	54	35	46	473,1	1616	407,2	1,69	5,79	1,46	279,3	1,23	10,32									ASHRAE MBP	
-10	14	55	32	55	352,1	1202	303,0	1,35	4,62	1,16	260,1	1,15	8,51									cecomaf MBP	
-10	14	45	20	45	424,2	1449	365,0	1,68	5,73	1,44	252,7	1,11	9,93									EN12900 MBP	

## Performance tables

R134a, 220V/50Hz, CSCR, fan 1,5m/s, VDE

	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]	-15	5	328,1	1121	282,4	1,42	4,85	1,22	231,0	1,03	7,15
cond. pressure	-10	14	440,0	1503	378,7	1,74	5,95	1,50	252,7	1,11	9,63
pc= 45/113	-5	23	573,9	1960	493,9	2,09	7,15	1,80	274,0	1,20	12,62
return gas temp.	0	32	729,5	2491	627,8	2,48	8,46	2,13	294,6	1,30	16,13
RGT= 32/90	5	41	907,0	3097	780,5	2,89	9,86	2,49	314,0	1,39	20,19
liquid temp	10	50	1106,2	3778	952,0	3,33	11,38	2,87	331,9	1,47	24,82
Tliq= 45/113	15	59	1327,1	4532	1142,1	3,81	13,02	3,28	348,0	1,55	30,06
[°C / °F]	-15	5	259,0	884	222,9	1,13	3,84	0,97	230,1	1,03	6,23
cond. pressure	-10	14	352,1	1202	303,0	1,35	4,62	1,16	260,1	1,15	8,51
pc= 55/131	-5	23	467,0	1595	401,9	1,61	5,51	1,39	289,5	1,28	11,35
return gas temp	0	32	603,7	2062	519,5	1,90	6,48	1,63	318,1	1,40	14,77
RGT= 32/90	5	41	762,1	2603	655,9	2,21	7,53	1,90	345,4	1,53	18,78
liquid temp	10	50	942,2	3218	810,9	2,54	8,67	2,18	371,1	1,66	23,42
Tliq= 55/131	15	59	1143,9	3907	984,5	2,90	9,89	2,49	394,8	1,77	28,73