

**GGU 15..
from index
20**

Freezer for use in the catering business

LIEBHERR

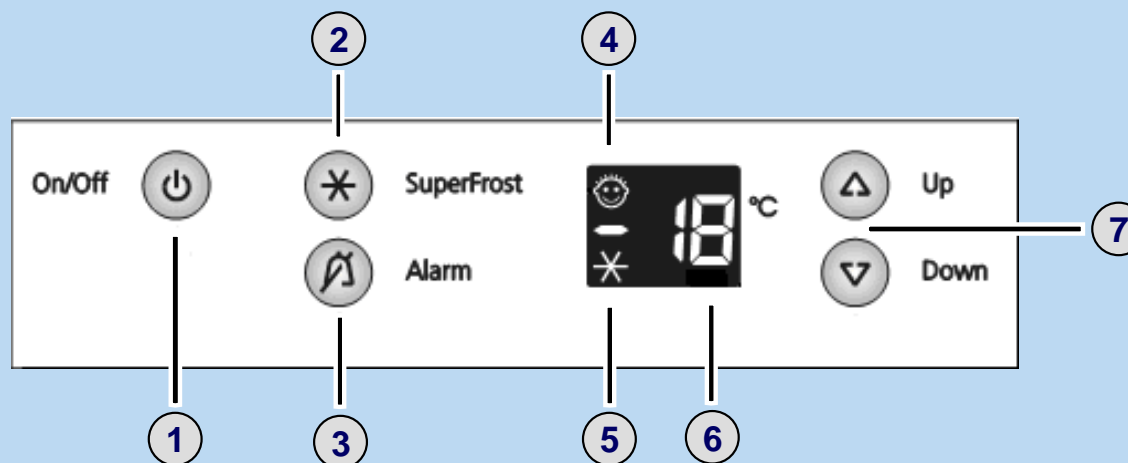


GGU 1550



GGU 1500

Functions



1 : ON/OFF button

2 : SuperFrost button

3 : Alarm OFF button

4 : Display for activated child lock

5 : Display for activated SuperFrost function

6 : Temperature display

7 : Temperature setting buttons

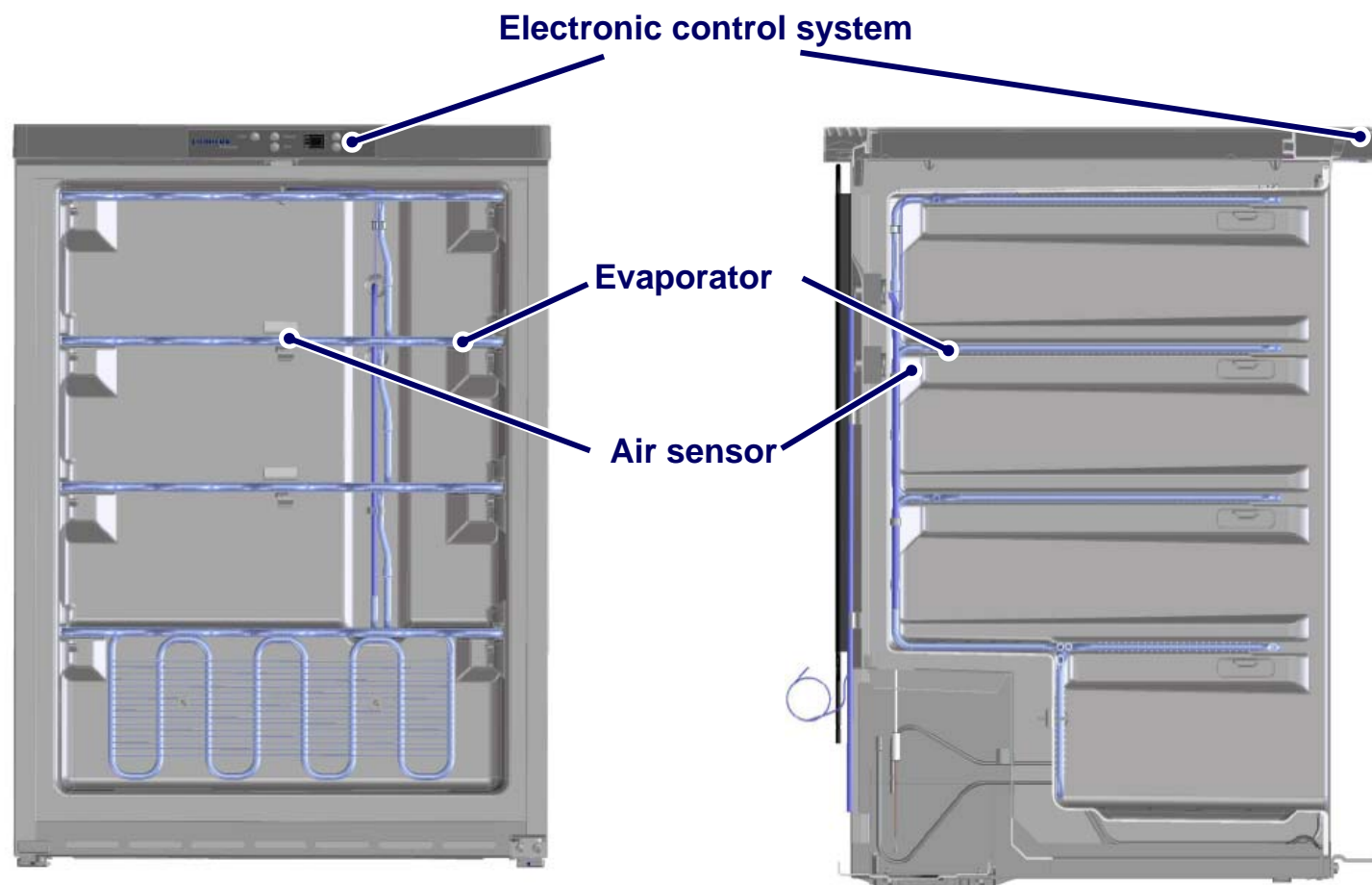
- | | |
|---|-------------------------------|
| • Control: | Electronic |
| • Temperature display: | Actual value |
| • Temperature range: | -9°C to -26°C |
| • Temperature alarm: | Visual and audible |
| • Door alarm: | Audible |
| • Interior cooling: | Static |
| • Defrosting: | Manual |
| • Interior light: | Not fitted |
| • HACCP, floating alarm contact: | Not fitted |
| • Design (suitable for under-worktop use): | 83cm high (foamed-on worktop) |
| • Door closing mechanism: | Not fitted |

Design

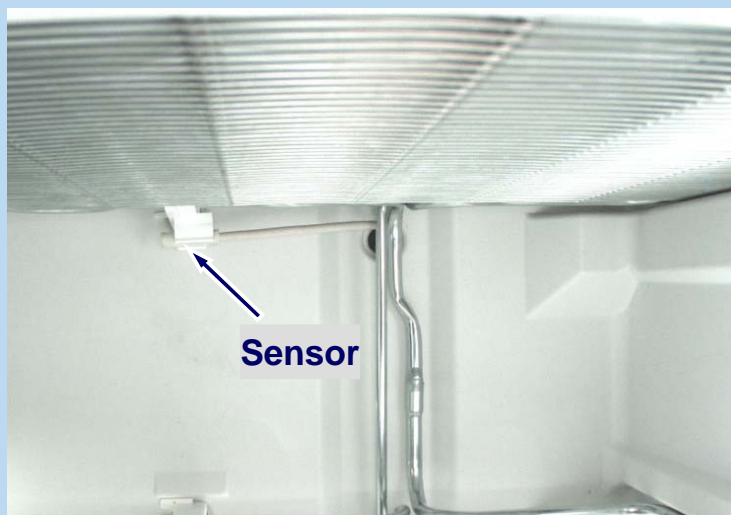
GGU 15..
from index
20

Schematic diagram

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Control



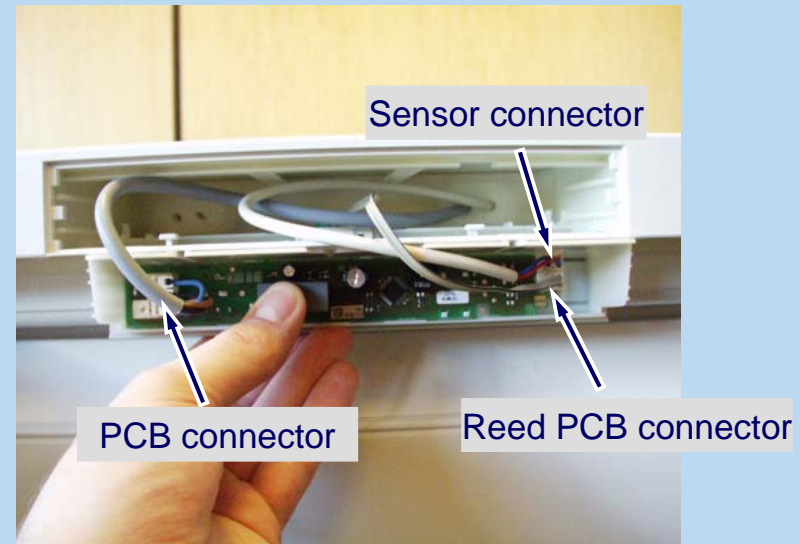
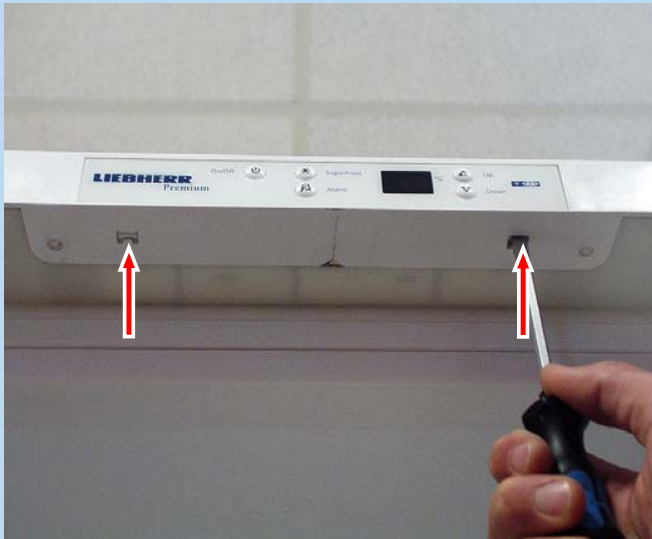
Position:

Behind the 2nd evaporator stage

Depending on this sensor

- the compressor switches ON and OFF
- the display value is generated
- the temperature alarm is initiated

Replacement of parts



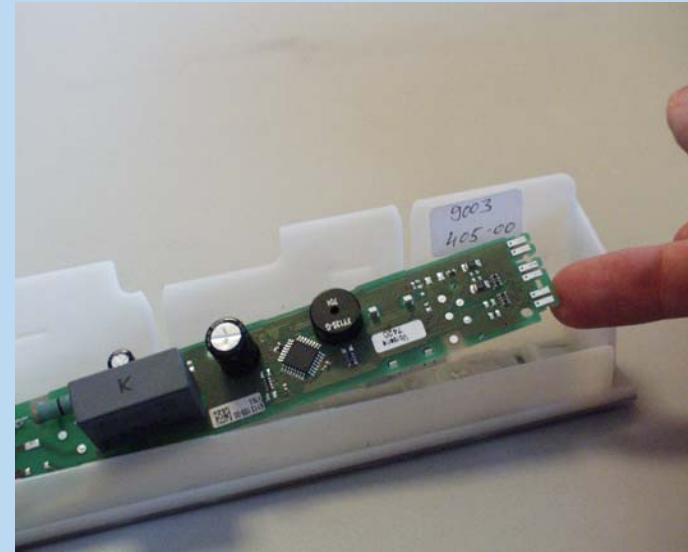
Procedure

- Press up the locating lugs at the left and right and simultaneously draw them forwards.
- Pull the front panel off the worktop.

GGU 15..
from index
20

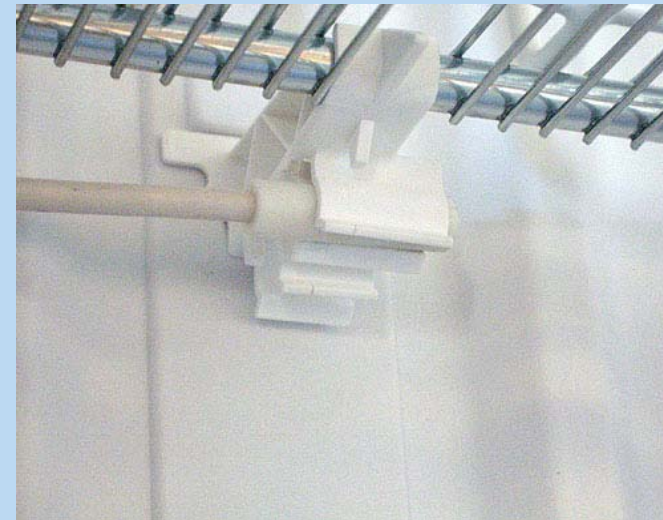
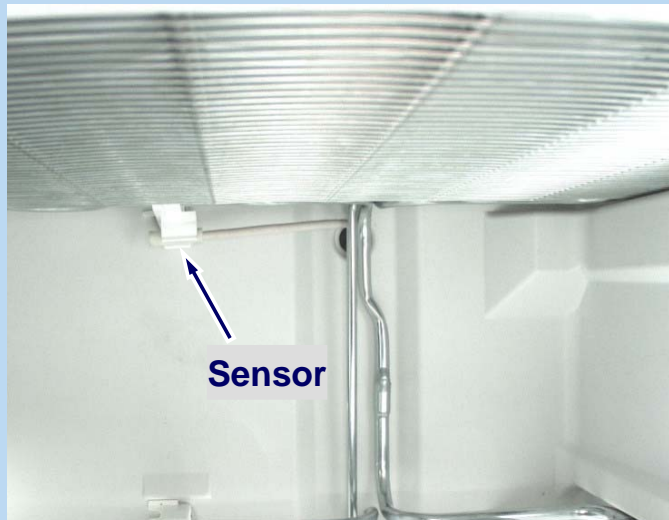
Replacing the electronic control system

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Procedure

- Carefully clip the PCB out of the front panel.



Procedure

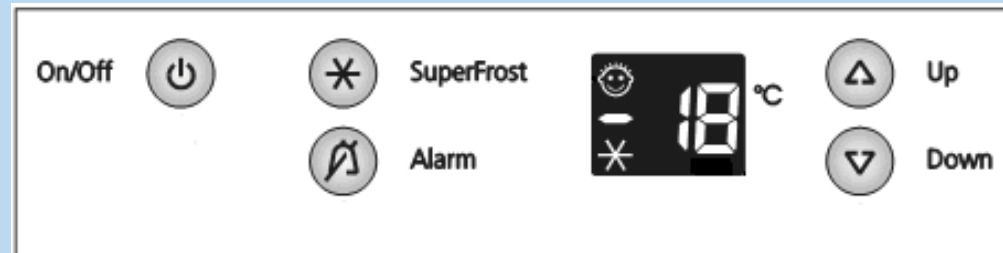
- Remove sensor from the holder and extricate it through the rear wall.
- When fitting, pay attention that the sensor is clipped into the correct position.

Repair kit information!

Sensor is cut off and repaired by repair kit (with repair instructions).

**Hidden
functions**

Customer menu



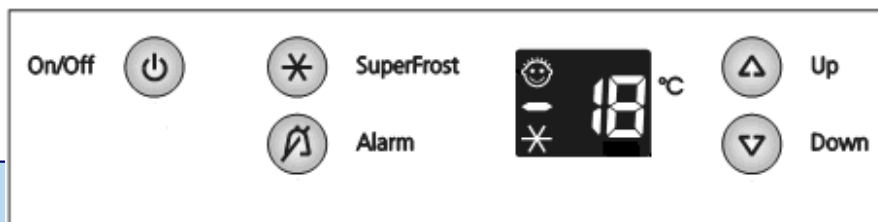
The customer menu offers extended functions, which the customer can set on the appliance.

Start of customer menu: Press "SuperFrost" for 3 seconds

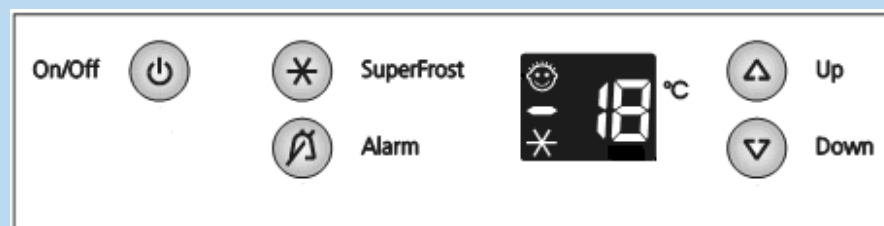
Selection: Select the function wanted using "Up" or "Down" and activate the selected function with "SuperFrost".

Functions:

- c Child proofing
- h Display brightness

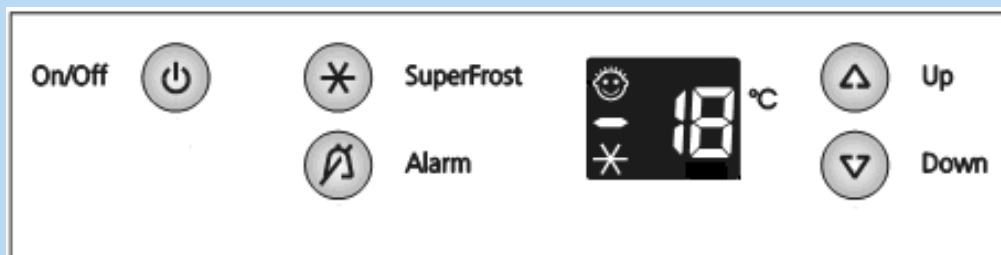


Step	Display	Operation	Display following operation	Testing option / Info
To activate child lock				
1	Actual value	Press "SuperFrost" for 3 sec.	"★c" flashes	Customer menu active
2	"★c" flashes	Press SuperFrost button	„★c0“ („★ 0“ flashes)	Child lock selected
3	„★c0“ („★ 0“ flashes)	Press "Up" once	„★c1“ („★ 1“ flashes)	Switch on child lock selected
4	„★c1“ („★ 1“ flashes)	Press SuperFrost button	"★c" flashes	Child lock ON activated
To deactivate child lock				
1	Actual value	Press "SuperFrost" for 3 sec.	"★c" flashes,	Customer menu active
2	"★c" flashes	Press SuperFrost button	„★c1“ („★ 1“ flashes)	Child lock selected
3	„★c1“ („★ 1“ flashes)	Press "Down" once	„★c0“ („★ 0“ flashes)	Switch off child lock selected
4	„★c0“ („★ 0“ flashes)	Press SuperFrost button	"★c" flashes	Child lock OFF activated
End	After step 4, to exit the menu, press "ON/OFF"			



Step	Display	Operation	Display following operation	Testing option / Info
Setting brightness				
1	Actual value	Press "SuperFrost" for 3 sec.	"★c" flashes	Customer menu active
2	"★c" flashes	Press Up button once	"★h" flashes	Brightness setting selected
3	"★h" flashes	Press SuperFrost button	"★h1" to "★h5" flashes	Brightness setting activated
4	"★h1" to "★h5" flashes	Press Up/Down button	"★h1" to "★h5" flashes	Brightness setting, adjustable from h1: minimum brightness to h5: maximum brightness
5	"★h1" to "★h5" flashes	Press SuperFrost button	"★h" flashes	Set brightness value has been accepted
End	After step 5, to exit the menu, press "ON/OFF"			

Service menu



The service menu comprises functions and testing options for the service technicians as well as activation/deactivation of a demo mode.

Start: Press ON/OFF and SuperFrost simultaneously for 3 seconds.

Selection: Select the function wanted using "Up" or "Down" and activate the selected function with "SuperFrost".

Functions:

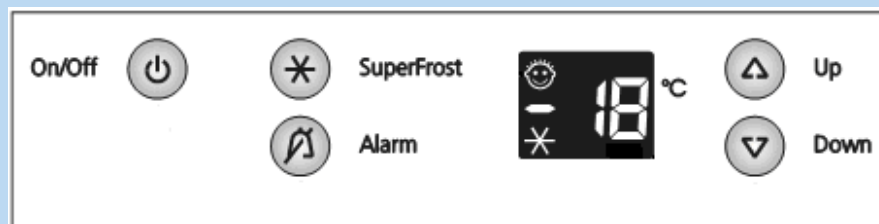
- **d1/d0** demo mode
- **L** Service mode
- **E** Sensor test

GGU 15..
from index
20

Demo mode

(until february 2009)

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Step	Display	Operation	Display following operation	Testing option / Info
Service menu start				
1	Actual value	Press "ON/OFF" and "SuperFrost" simultaneously for 3 seconds	"d1" or "d0" flashes	Service menu active. Stepwise demo mode
2a	"d1" flashes	Press "SuperFrost"	Set value	Demo mode ON
2b	"d0" flashes	Press "SuperFrost"	Current actual value	Demo mode OFF

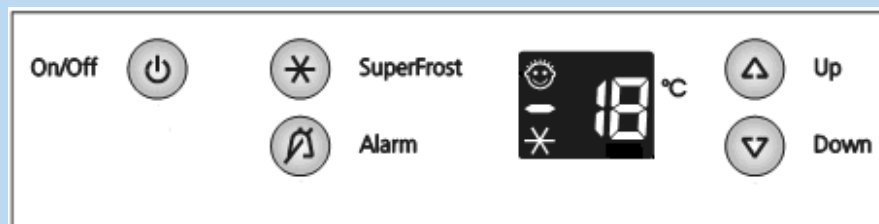
Demo mode (Demo mode can be deactivated only via service menu, not by OFF/ON.)
Operation is switched to the mode wanted, demo mode or normal mode, as soon as "SuperFrost" has been pressed.

[Home](#)
[Functions](#)
[Design](#)
[Control](#)
[Replacement of parts](#)
[Hidden functions](#)

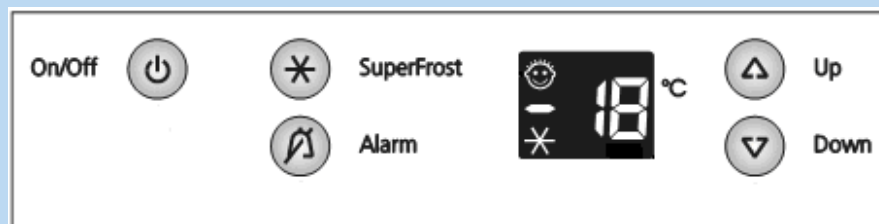
20 / 25

Demo mode activation

(from march 2009)



Step	Display	Operation	Display following operation	Testing option / Info
Service menu start				
1	Actual value	Press "ON/OFF" and "SuperFrost" simultaneously for 3 seconds	"*L" flashes	Service menu active
2	"*L" flashes	Press "Up"	„*d“ flashes	Stepwise demo mode
3	„*d“ flashes	Press "SuperFrost"	„*d0“ (only „* 0“ flashes)	Stepwise demo mode
4	„*d0“ (only „* 0“ flashes)	Press "Up"	„*d1“ (only „* 1“ flashes)	Stepwise demo mode
5	„*d1“ (only „* 1“ flashes)	Press "SuperFrost"	Set value (e.g. -18)	Demo mode ON
Demo mode can be deactivated only via service menu, not by plug on/off.				

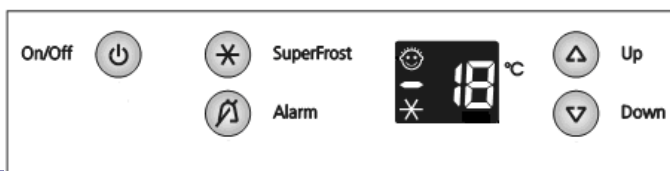


Step	Display	Operation	Display following operation	Testing option / Info
Service menu start				
1	Actual value	Press "ON/OFF" and "SuperFrost" simultaneously for 3 seconds	"*L" flashes	Service menu active
2	"*L" flashes	Press "Up"	„*d“ flashes	Stepwise demo mode
3	„*d“ flashes	Press "SuperFrost"	„*d1“ (only „* 1“ flashes)	Stepwise demo mode
4	„*d1“ (only „* 1“ flashes)	Press "Down"	„*d0“ (only „* 0“ flashes)	Stepwise demo mode
5	„*d0“ (only „* 0“ flashes)	Press "SuperFrost"	Current actual value (e.g. --)	Demo mode OFF
Demo mode can be deactivated only via service menu, not by plug on/off.				

GGU 15..
from index
20

Service mode

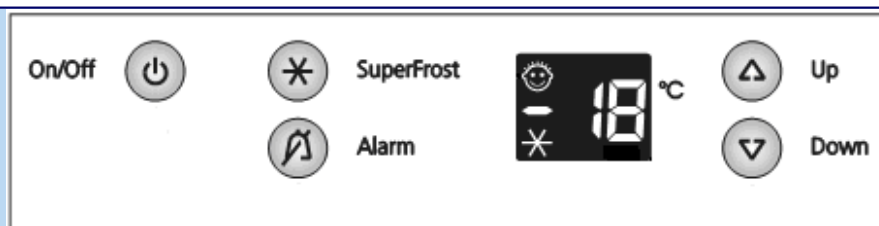
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Step	Display	Operation	Display following operation	Testing option / Info
Service menu start				
1	Actual value	Press "ON/OFF" and "SuperFrost" simultaneously for 3 seconds	"d1" flashes	Service menu active
Service mode -- Test display LED, door contact				
1	"d1" flashes	Press "Up" once	"L" flashes	Service mode selected
2	"L" flashes	Press "SuperFrost"	"rd" flashes	Service mode activated
3	"rd" flashes	Door open and closed	All LEDs and the display (88) shine	Door contact, LEDs
4	All LEDs and the display (88) shine	Press all the buttons	2 seconds audible alarm "L0" shines	Buttons / button actuation confirmed by beep
Service mode -- test of loads				
5	"L0" shines	Press "Up"	"L1" shines	Compressor ON
6	"L1" shines	Press "Up"	"L0" shines	All OFF
Return to step 6 by pressing the "Up" button again.				
End	Press "ON/OFF"			

[Home](#)
[Functions](#)
[Design](#)
[Control](#)
[Replacement of parts](#)
[Hidden functions](#)

■ ■ 23 / 25



Step	Display	Operation	Display following operation	Testing option / Info
Service menu start				
1	Actual value	Press "ON/OFF" and "SuperFrost" simultaneously for 3 seconds	"d1" flashes	Service menu active
Sensor test and door contact test (sensor values without offset, appliance in control mode)				
1	"d1" flashes	Press "Up" twice	"E" flashes	Sensor test mode selected
2	"E" flashes	Press "SuperFrost"	"E3" flashes alternately with sensor temperature	Air sensor
3	"E3" flashes alternately with sensor temperature	Press "Up"	"E8" flashes alternately with "0" or "1"	Door contact (0=door closed, 1=door open)
End	Press ON/OFF twice			

**GGU 15..
from index
20**

Error code

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Error code	Defective component	Emergency mode
F3	Air sensor	Continuous operation