

Appliance documentation for KGBNes 5056 NoFrost combined refrigerator-freezer with BioFresh, 750 mm wide

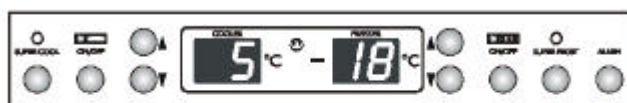


Applies to: **KGBNes 5056 from Index 25 onwards**

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2.0 Extract from Operating Instructions



Switching on: Press the on/off buttons (on left for refrigerator, on right for freezer) so that the temperature displays light up or flash.

- **Refrigerator:** The interior light will light up when the door is open.
- **Freezer:** The alarm will sound when the appliance is switched on for the first time and when the appliance is "warm".

Press the alarm off button to switch it off.
See the "Audible warning signal" for more information.

Switching off: Press the on/off buttons again so that the temperature displays go out.

Setting the temperature

The appliance is pre-set for normal operation. We recommend temperatures of +5°C in the refrigerator and -18°C in the freezer.

- To reduce the temperature:**
Press the bottom button; on left for refrigerator and on right for freezer.
- To increase the temperature:**
Press the top button.

- While you are entering the temperature, the set temperature will flash on the display.
- When you press the temperature setting buttons for the first time, the most recent setting (known as the "reference setting") is displayed.
- You can change the settings in increments of 1°C by briefly pressing the buttons again. If the buttons are held down the temperature setting will change faster.
- Approximately 5 seconds after the button has been released, the display will automatically show the actual freezing or cooling temperature (known as the "actual setting").
- You can change the temperatures in the refrigerator: between 9° and 4 °C and in the freezer: between -14° and -28 °C.

Temperature display

In normal operation, the following settings will be displayed:

- the average refrigerator temperature in display and
- the warmest frozen food temperature in display.

When starting up for the first time or when the appliance is warm, dashes will appear until the temperature reaches a level that can be displayed (19° to 0°C in the refrigerator and below 0°C in the freezer).

The display will flash:

- if you change the temperature or
- if the temperature rises by several degrees, indicating cold loss, e.g. if you place fresh, "warm" food in the freezer or if you remove or re-pack frozen food the temperature may rise for a short time due to warm air flowing into the freezer.

If F1 to F5 appears in the display, the appliance has a fault. Consult the customer service department indicating the fault number displayed.

Power failure "frost-control" display

If nA appears in the display, this means that the freezer temperature has risen too high during the last few hours or days due to a power failure.

If you press the "ALARM" button whilst the display is reading nA, the highest temperature registered during the power failure will be displayed. Check the quality of the food and its suitability for consumption in case it has become too warm or even defrosted.

The highest temperature will appear for approx. 1 minute. After that, the actual temperature in the freezer will re-appear. The display can be switched off by repeatedly pressing the "ALARM" button.

Child-proof lock

The child-proof lock is designed to protect the appliance from being switched off accidentally.

- Switching on the child-proof lock:** Hold down the audible warning on/off button 5 and then press the Superfrost button 4, and keep both buttons pressed simultaneously for approx. 3 seconds.

A double beep confirms your entry. The LED will come on.

Switching off: Press this key combination again; the LED will now go out.

Audible warning signal

The audible warning device helps to protect the frozen food and to save energy.

- It sounds when it is not cold enough in the freezer compartment. The temperature display will also flash;
- when too much warm air from the outside enters when inserting, re-arranging or removing frozen food.

The audible warning device is switched off by pressing the "ALARM" button. The temperature display will continue to flash until the cause of the alarm has been rectified.

Supercooling

The Supercooling button switches the refrigerator compartment to maximum cooling. It is recommended particularly if you wish to cool large quantities of food, drinks, freshly baked cakes or meals rapidly.

- Switching on Supercooling:** Press the Supercooling button briefly so that the LED comes on. The refrigerator temperature will drop to its lowest value.

Note: The Supercooling function uses slightly more energy. After approx. 6 hours, however, the refrigerator switches back automatically to normal energy-saving operation. If required, the Supercooling function can be switched off sooner.

Switching off: Press the Supercooling button again so that the LED goes out.

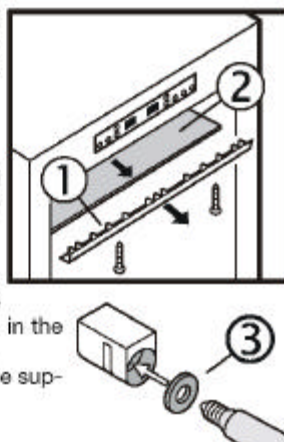
Interior light

This switches off automatically after the door has been opened for approx. 15 minutes. The light is located behind a cover at the top of the interior container and has two bulbs. When a bulb is defective, please note the following:

Bulb data: max. 25 W; current and voltage must agree with the details on the type plate. Bulb fitting: E 14.

Replacing the bulb:

- Pull out the mains plug or remove/unscrew the fuse.
- Unscrew the support strip ① and remove in the direction of the arrow.
- Remove the glass plate ②.
- Replace the defective bulb. When inserting the new bulb, make sure the seal ③ is properly in position in the lamp socket.
- Replace the glass plate ② and the support strip ①.



Biofresh compartment

The Biofresh compartment enables you to keep a range of *fresh food* fresh for up to approximately three times as long as you would in a standard refrigerator, thus making your stocks last longer. Taste, freshness and nutritional value (vitamin B and C group content) remain largely intact. Spoilage and weight loss in vegetables and fruit are reduced, leaving food more fresh and natural.

The automatically controlled storage temperature, which is kept constantly at just above 0°C, and the resultant humidity provide the ideal storage conditions for different types of food.

The top drawer ⑧

is suitable for storing dry or wrapped food (e.g. dairy products, meat, fish, cold meats). The storage climate in this drawer is relatively dry.

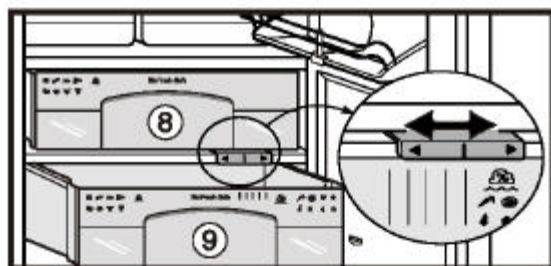
The drawer with humidity control ⑨

When set to "humid" this drawer can be used for storing salad, vegetables and fruit. When the drawer is full, the climate will be "dew-fresh", with approximately 90% humidity.

You can set the humidity in this drawer to dry or moist as required.

Humidity selection:

- **"dry" setting:** small humidity symbol slide control to left. Insert food that is suitable for being stored in a dry climate.
- **"humid" setting:** high relative humidity of max. 90%, large humidity symbol - slide control to right. This setting is suitable for storing unwrapped food with a high moisture content such as fresh lettuce.



Notes

- The humidity in the compartment depends on the moisture content of the food in it, and the frequency with which the compartment is opened.
- When buying food, check that it is fresh - the fresher the product and the higher its quality, the longer it will keep.
- Unwrapped animal and vegetable foods should be stored separately in the drawers. If there is not enough space for them to be stored separately, make sure that they are wrapped. Do not allow different types of meat to come into contact with one another but keep them packaged separately so as to avoid premature bacterial spoilage.
- Please note that protein-rich food spoils more quickly, i.e. crustaceans and shellfish spoil faster than fish, and fish faster than meat.
- Remove food from the drawers 30 to 60 minutes before consumption. Enjoyment will be enhanced in this way as the aroma and flavour develop best at room temperature.
- The following products should not be stored in the Biofresh compartment: hard cheese, potatoes, cold-sensitive vegetables such as cucumber, peppers, aubergines, avocados, semi-ripe tomatoes, beans, zucchini, and all cold-sensitive tropical fruits such as pineapple, bananas, grapefruit, melons, mangoes, papaya, etc.

Freezing with Superfrost

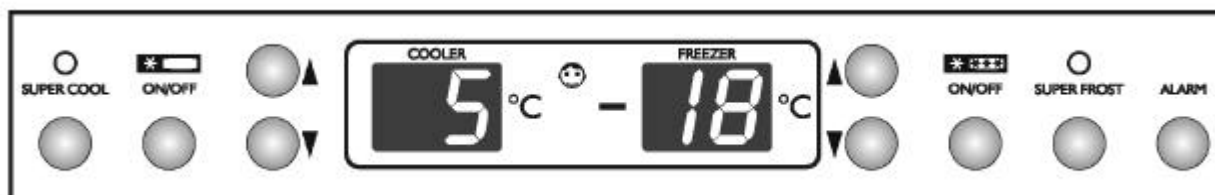
- Press the Superfrost button briefly so that the LED lights up. The freezer temperature will decrease and the appliance will switch to the lowest temperature.

- For small amounts of frozen food, it is normally sufficient to switch on Superfrost 6 hours beforehand. For the maximum amount (see freezing capacity on the type plate) you will need to switch it on 24 hours beforehand.
- Then place the fresh food inside the freezer. If freezing the maximum quantity of food, do not use the drawers; instead, place the wrapped food directly on the cooling plates. Once the food is frozen you can load it into the drawers.
- The Superfrost function switches off **automatically**. Depending on the quantity of food placed in the freezer, this will normally be between 30 and max. 60 hours. The freezing process is now complete, the **Superfrost LED will go out**, and the freezer will switch back to normal energy-saving operation.

You should not switch on the Superfrost function:

- when placing frozen food in the freezer;
- when freezing up to approx. 2 kg fresh food daily.

2.1. Operating and control elements



3.0. The functions at a glance

(**X** = included, **o** = not included)

Control:	X Electronic o Thermostat
Temperature display:	o Analogue X Digital
Temperature alarm:	X Visual X Acoustic
Door alarm:	o Visual X Acoustic (refrigerator and freezer compartments)
Fan:	X Refrigerator compartment X Freezer compartment
Defrosting:	o Manual X Automatic, refrigerator and freezer compartments
Light:	X Refrigerator compartment o Freezer compartment
SuperCooling:	X Automatic (runs continuously for 6 hrs)
SuperFrost:	X Automatic (quantity-controlled), 30 – 60 hours
Self-diagnosis routine:	X Start by means of button combination o Start by means of test plug
Refrigeration technology:	X 2 compressors

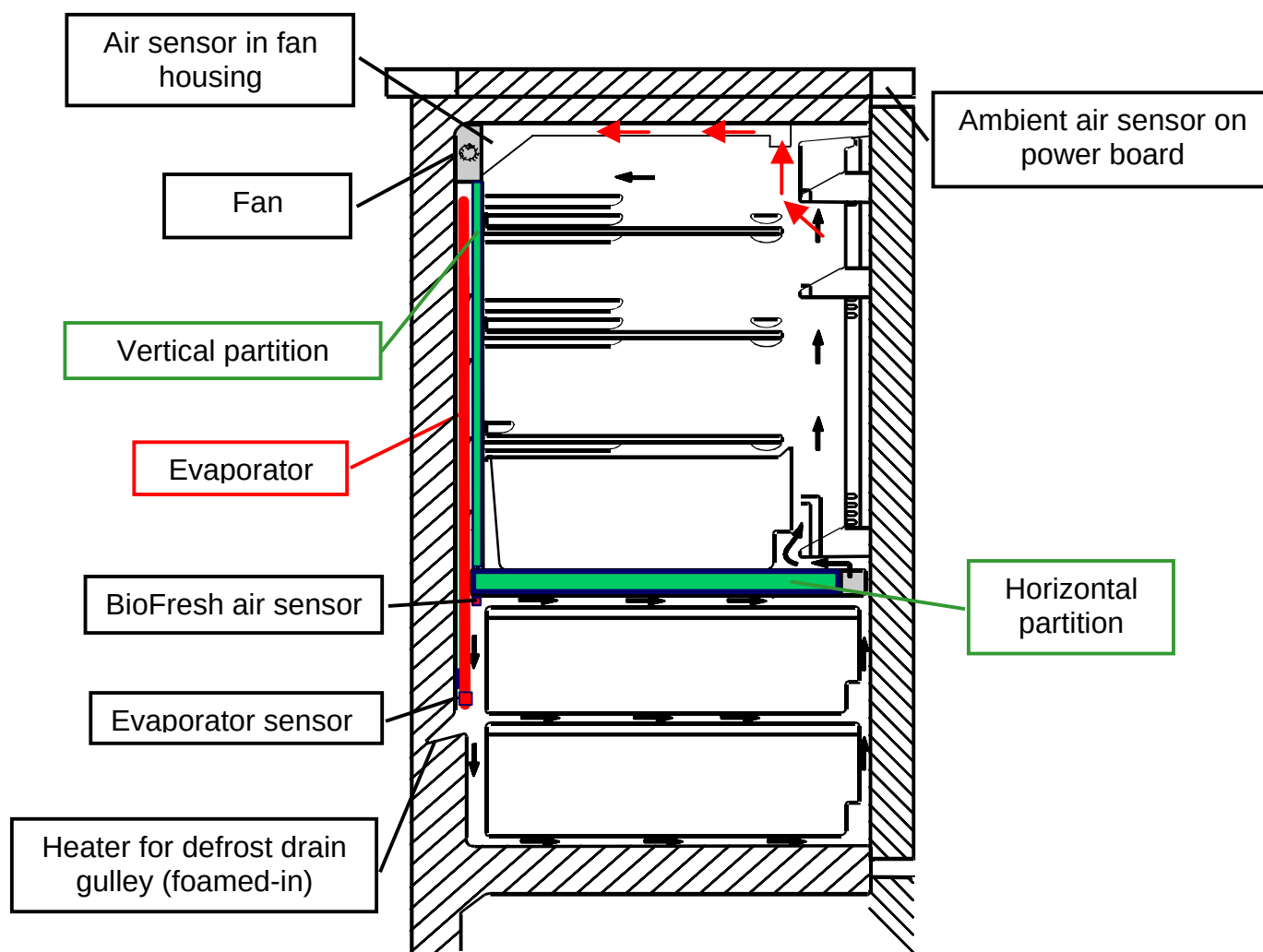
4.0. Description of the appliance (in brief)

4.1. Schematic diagram: Refrigeration assembly of refrigerator and BioFresh compartment

Refrigerator and BioFresh compartment are cooled by a joint evaporator. The evaporator is located in the back of the refrigerator compartment and is thermally insulated from it by means of an insulated vertical partition.

A DC-powered fan is used to balance the temperature between the refrigerator and the BioFresh compartments. If the refrigerator air sensor detects that the temperature in the refrigerator compartment needs to be reduced, the fan is switched on. The fan sucks the warm air in from the front and blows it downwards past the evaporator to cool it down. The cold air is now directed past the BioFresh drawers up into the refrigerator compartment.

Once it is sufficiently cold in the refrigerator compartment, the fan is switched off. The compressor continues to run, and the BioFresh drawers are cooled statically by means of the downward flowing cold air. The compressor continues to run until the BioFresh air sensor detects that the air in the BioFresh compartment is cold enough.



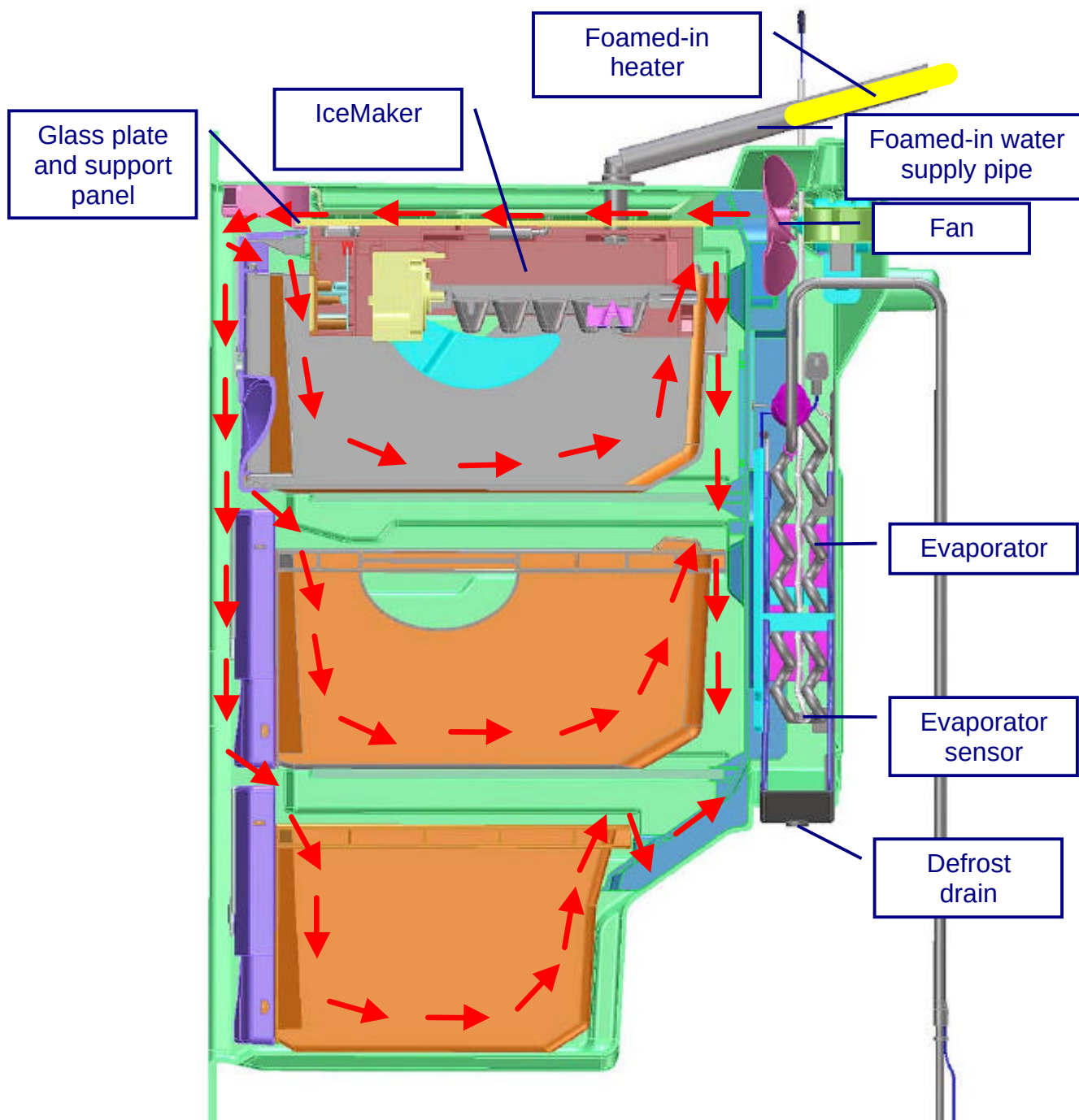
4.2. Schematic diagram: Freezer compartment

The freezer compartment is equipped with a NoFrost rear wall evaporator module, an IceMaker, a fan, an air sensor and an evaporator sensor. Both sensors can be replaced separately.

The air sensor detects the temperature for the temperature display and switches the refrigeration on and off.

The evaporator sensor activates the freezer fan and the evaporator module defrost function.

There is a special defrost drain valve for draining off the defrost water.



5.0. Refrigerator and BioFresh compartment – controls and functional parts

Electronics:	6-series Steca electronics, operating panel board and power board (the microcontroller is on the power board)
Display range:	0°C to +19°C, temperatures outside the range are indicated with a dash
Refrigerator setting range:	+4°C to +9°C
BioFresh compartment setting range:	b -5 to b 5 (one b increment represents approx. 0.5 – 0.7K) Keep the Alarm button pressed for approx. 7 seconds. A “b” will appear in the refrigerator display and an “0” in the freezer display. Now press the arrow buttons: Upper button (?) = warmer, lower button (∇) = colder. The temperature can be changed by +/- 5 increments. Save by pressing the Alarm button.
Door alarm:	When the refrigerator/BioFresh compartment door has been left open for 60 seconds (NC contact)
Interior light:	Refrigerator compartment roof, interior light is switched off after 15 minutes.
Refrigerator air sensor:	Detects the temperature to be displayed and switches the BioFresh fan off/on.
Refrigerator/BioFresh evaporator sensor:	Ends the defrost phase and switches the compressor on.
BioFresh air sensor:	Switches the refrigerator/BioFresh compressor off once the switch-off threshold has been reached.
Ambient temperature sensor:	On the power board; influences the switch-off threshold of the BioFresh air sensor. This minimises temperature variations in the BioFresh compartment. An ambient air sensor error will only be displayed during the self-diagnosis routine. In the event of a fault, the switch-off threshold of the BioFresh air sensor will not be affected.
Refrigerator and BioFresh fan:	This switches on when the temperature at the refrigerator air sensor is too high and off when it has dropped down to the right level. When the compressor is not running, the fan works at reduced speed (due to reduced voltage, approx. 7 – 10 V) and it is switched off entirely when the door is open.
SuperCooling function:	Cools refrigerator down to +4°C for 6 hours. The BioFresh temperature remains unchanged.
Defrosting:	Automatically while the compressor of the refrigerator and BioFresh compartment is idle.
Heater for defrost drain gully:	Foamed-in around the defrost drain gully.

6.0. Freezer compartment – controls and functional parts

Electronics:	6-series Steca electronics, operating panel board and power board (the microcontroller is on the power board)
Display range:	0°C to -50°C, temperatures outside the range are indicated with a dash
Setting range:	-14°C to -28°C
Temperature alarm:	With SuperFrost activated: from -8°C. With temperature set between -14°C and -23°C: 4K or more above set temperature. With temperature set between -24°C and -28°C: from -20°C.
Door alarm:	Sounds when freezer door has been left open for 60 seconds
Reed switch:	In the front air guide panel
Fan:	Switches on when the following three conditions are met: - the compressor is on and - the freezer door is shut and - the evaporator is cold enough. Freezer evaporator sensor activation temperature: a) on starting up: -25°C b) in normal operation: 2K below freezer air sensor
Freezer air sensor:	Display and compressor on/off
Freezer evaporator sensor:	Ends the defrost phase and switches the freezer fan on
Evaporator heater:	- heats both the evaporator and the defrost drain gully - safety temperature limiter switched in series with the heater - activated via the electronic control system
Defrosting:	The defrost phase is activated: - after 12 hours after switching on the appliance for the first time - after 12 hours of accumulated compressor operation with door open several times - after 60 hours of accumulated compressor operation with door permanently closed The defrost phase is deactivated: - when the SuperFrost function is switched on - when the freezer evaporator sensor reaches +5°C - when the maximum defrosting time of 50 minutes is reached
Defrost drain valve:	Foamed-in defrost drain valve; can be dismantled for cleaning. Important: This must be replaced in exactly the right way. (See section 9.1. Installation instructions).
SuperFrost:	Quantity-controlled, min. 30 hours, max. 60 hours
IceMaker:	In the top left-hand part

7.0. Cooling circuit

7.1. Refrigerator cooling circuit

Evaporator:	Replaceable rear wall evaporator between inside rear wall of appliance and vertical partition (see sketch 4.1).
Injection point / flow sequence:	Top left, seen from the front.
Compressor:	1 standard compressor for refrigerator and BioFresh compartment

7.2. Freezer cooling circuit

Evaporator:	Ribbed evaporator fitted on the rear wall of the interior container in the freezer compartment. The defrost heater is fitted directly on the evaporator.
Injection point:	Top left of ribbed evaporator.
Compressor:	Standard compressor.
Frame heater:	Foamed-in liquid gas heater round freezer door.

8.0. Special features

8.1. Venting valve for negative pressure compensation in refrigerator

The refrigerator compartment is equipped with a replaceable venting valve for rapid compensation of negative pressure. It is fitted to the right in the lower part of the BioFresh compartment.



8.2. Magnetic door seals

The magnetic door seals on this appliance are replaceable (see also SI 08/02).

9.0. Installation instructions

9.1. Defrost drain valve

The defrost drain valve can be accessed through the compressor recess.

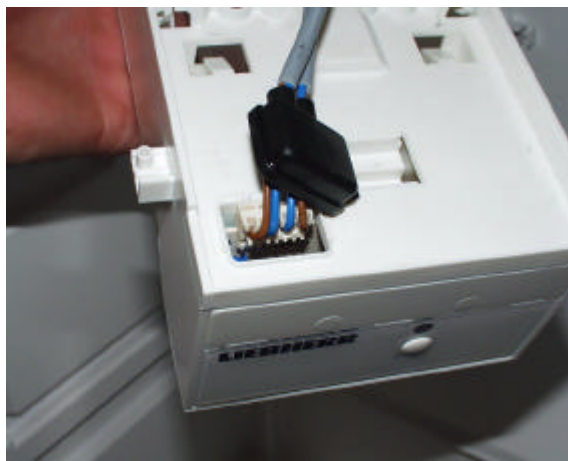
It is situated above the evaporation tray of the freezer compressor.



9.2. Dismantling the IceMaker (See 04200300SI for detailed information)

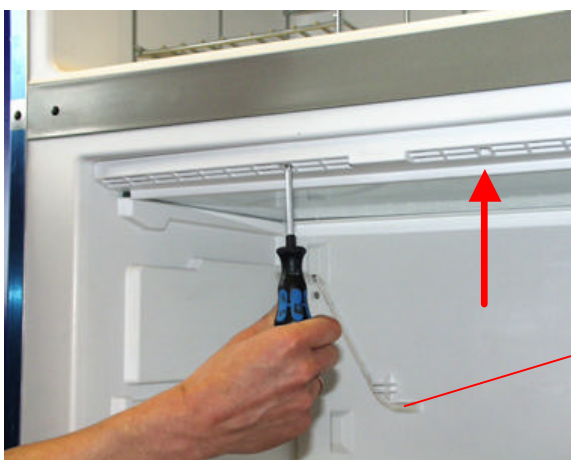


1. Remove drawers and intervening glass shelves from the freezer compartment.



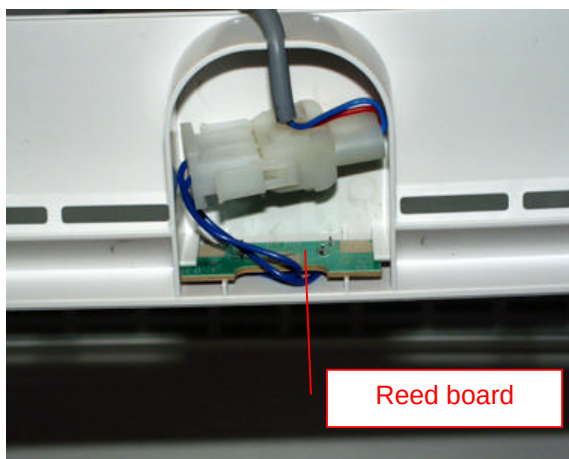
2. Undo the two screws on the left and right of the IceMaker. Pull the IceMaker out towards you, unclip it by pulling it down, and remove the cable. Do not forget to remove the air duct panel before reinstalling the IceMaker (see section 9.2.1.).

9.2.1. Access to evaporator module in freezer compartment



Air sensor

1. Remove the front air duct panel by unscrewing the two screws.



2. Disconnect the reed board located behind this panel.



3. Remove the IceMaker. Disconnect the supply nozzle (see arrow). Remove the glass plate and bracket from the IceMaker.



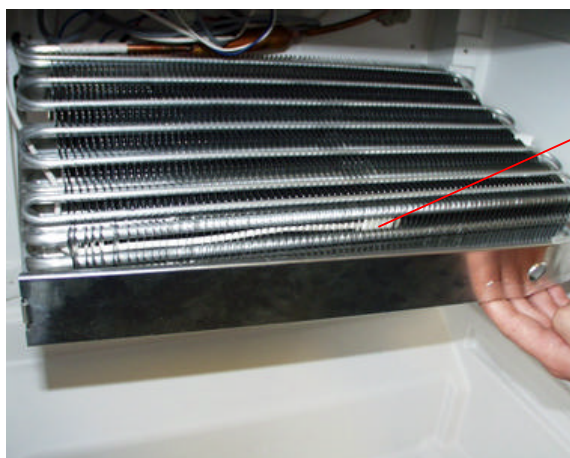
4. Unhook the air sensor from the rear wall air guide and unscrew the four screws (at a slight angle).



5. Remove the screw next to the safety temperature limiter and the two screws to the left and right of the evaporator module rear wall plate. Remove the cable from the cable clips at top left.

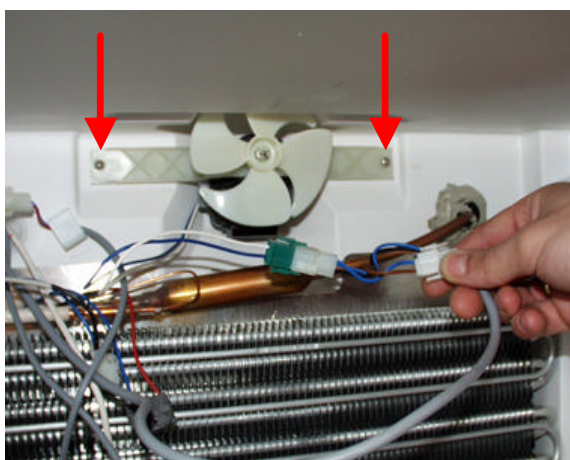


6. Disconnect the evaporator heater.
7. Tilt the evaporator module out at the bottom and remove the adhesive strip on the left and right of the underside. Remove the metal plate with the polystyrene part. The evaporator module is now accessible.



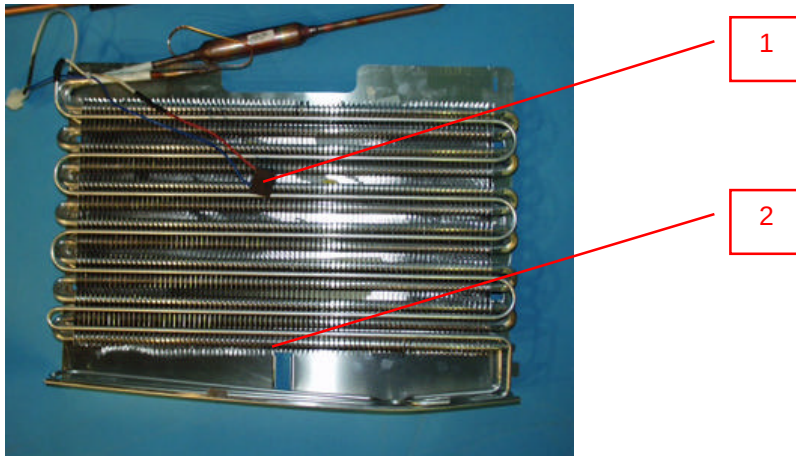
Evaporator sensor

8. When replacing the evaporator sensor, remove the left-hand polystyrene part and carefully pull out the sensor. Pull the sensor through the rear wall and disconnect the condenser on the right-hand side when seen from the back. The sensor is connected by means of a connecting socket and does not need to be followed all the way back to the electronics.



9. The fan is removed by undoing the two screws. Lift out the fan and bracket.
10. Re-assemble in the reverse order. Make sure the cables are in the correct position. The cable to the reed board should be above the glass air guide plate.

9.3. Evaporator module



The overheat guard illustrated at *arrow 1* can be replaced separately with a retrofit kit. The retrofit kit consists of 2 A&P crimped connectors and 2 heat-shrinkable sleeves.

Important:

Always attach the crimped connectors to the red and blue wires of the overheat guard, otherwise it will not be possible to connect it as the heater wires are too thin.

The freezer evaporator sensor is inserted at the point marked with *arrow 2*.

9.4. Fan in freezer compartment

The freezer fan is attached above the evaporator with a bracket and two screws. The air is sucked in from below and blown out to the front above the glass air guide plate. The air is blown downwards and into the drawers and sucked in again via the air duct panel at the front.

9.5. Reed switch

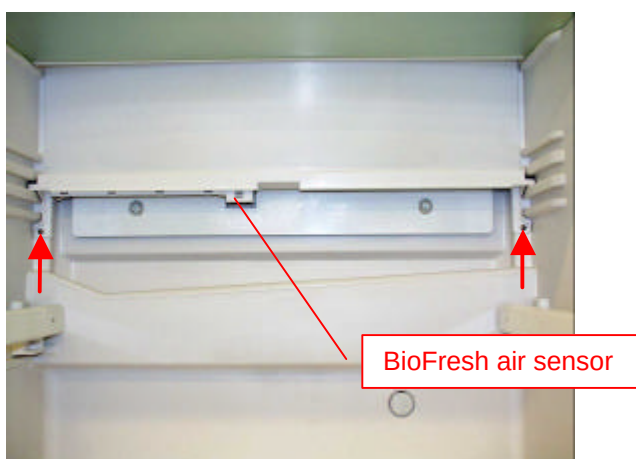


The reed switch is in the air duct panel at the front.

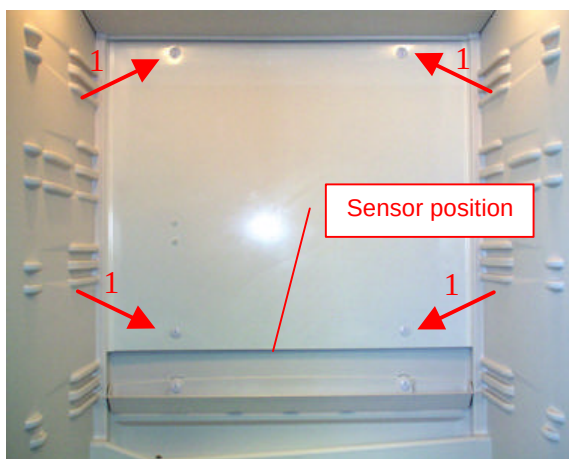
9.6. Refrigerator assembly



1. Remove the horizontal partition by unclipping it.



2. Remove the vertical partition by unscrewing the two screws.
BioFresh air sensor: Switches the refrigerator/BioFresh compressor off once the switch-off threshold has been reached.



3. Positions of refrigerator sensors – removal: The refrigerator evaporator sensor is housed in a bracket at the back of the evaporator in the centre of the bottom section.
4. Removing the refrigerator/BioFresh evaporator sensor:
Release the four bayonet closures by turning them. Turn the evaporator to the left. The evaporator sensor is now freely accessible.

Task: Switches the refrigerator/BioFresh compressor on once the defrost phase is finished.



5. Removing the refrigerator air sensor:
The refrigerator air sensor is in the fan housing on the left-hand side.



6. Removing the refrigerator air sensor and fan:
- See the section on the interior light in the extract from the operating instructions on page 4. Remove the top glass plate as per the instructions.
 - Then remove the two screws (2). Remove the fan housing; the air sensor is now freely accessible. The fan sucks the air in at the front and blows it across the evaporator from the top to the bottom. The fan is controlled by the BioFresh air sensor.

What this sensor does: Detects the temperature to be displayed and switches the BioFresh fan off/on.

The refrigerator sensors have a value of 12.5 kOhm at 20°C.

When a sensor is faulty or there is a short circuit, the display will read as follows:

F0 = BioFresh air sensor faulty

F1 = refrigerator air sensor faulty

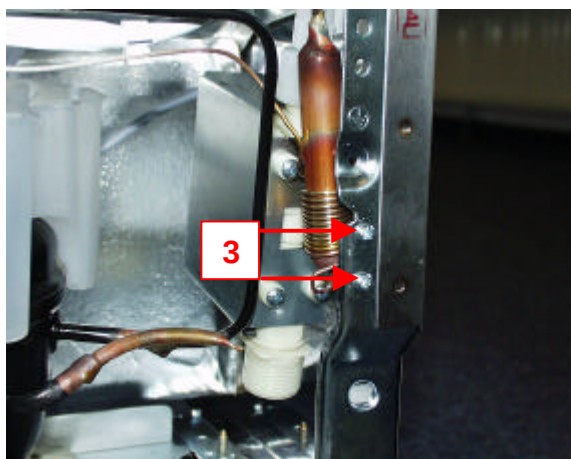
F2 = refrigerator evaporator sensor faulty



7. Removing the electronics – disconnect the appliance from the mains first.
 Insert a knife in the opening and press to the left, whilst raising the appliance cover slightly in the centre.
 Pull the electronics housing off to the front!
 Power and logics boards are now freely accessible!

9.7. Dismantling the solenoid valve with mounting

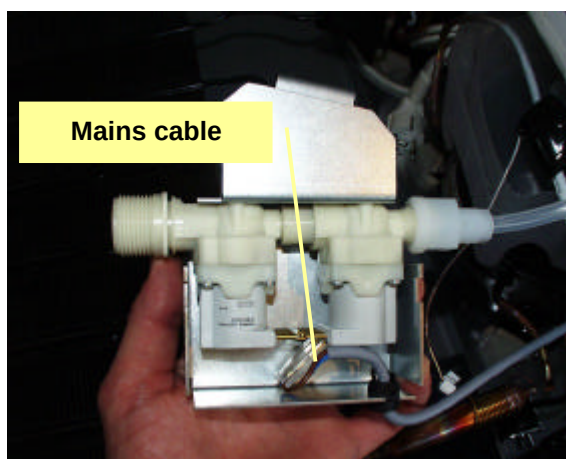
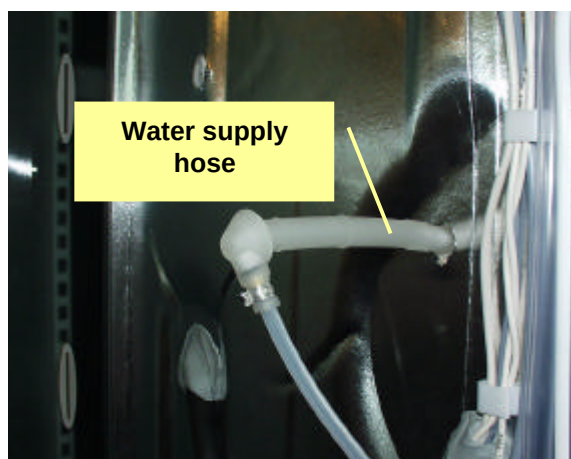
Spare twin solenoid valves are supplied with the mounting and water supply hose.



Integrated non-return valve

Water supply hose

1. Disconnect the appliance from the mains.
2. Remove the condenser.
3. Unscrew the screws (see arrows).
4. Carefully remove the solenoid valve and detach the hose from the clamps.



5. Remove the water supply hose.
6. Disconnect the mains cable from the solenoid valve.
7. Re-assemble in the reverse order.

10.0. Technical data – refrigerator compartment

Light: 2 x 25 W
230 V

Sensor values: Refrigerator air sensor
Refrigerator and BioFresh evaporator sensor
BioFresh air sensor

Temperature [°C]	Resistance value [kOhm]
+20	12.5
+5	25.3
0	32.5
-10	54.9
-18	85.5
-25	128.5
-30	173.9

11.0. Technical data – freezer compartment

Fan:	Freezer compartment 2100 rpm 6.5 W 230 V 380 Ohm at +20°C	Refrigerator compartment 1800 rpm at 10 V DC 1200 rpm at 6.0 V DC approx. 1 W power consumption 12 V DC
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Sensor values: - Freezer air sensor (6942 092)
- Freezer evaporator sensor (6942 118)

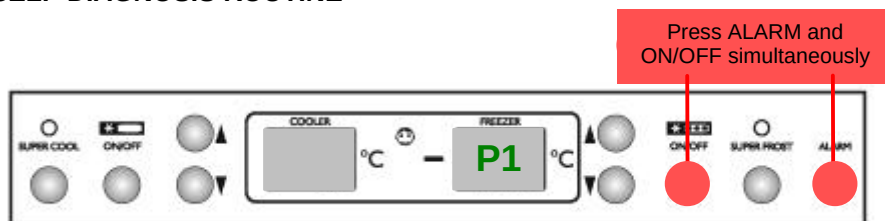
Temperature [°C]	Resistance value [kOhm]
+20	2.4
+5	4.6
0	5.7
-10	9.1
-18	13.5
-25	19.4
-30	25.4

Defrost heaters: - 194 W
- 230 V
- approx. 253 Ohm at +25°C
- 0.91 A

Overheat guard: - +93°C, switched in series with defrost heater
- cannot be reactivated; has to be replaced after tripping.

12.0. Self-diagnosis routine – Demo mode

SELF-DIAGNOSIS ROUTINE

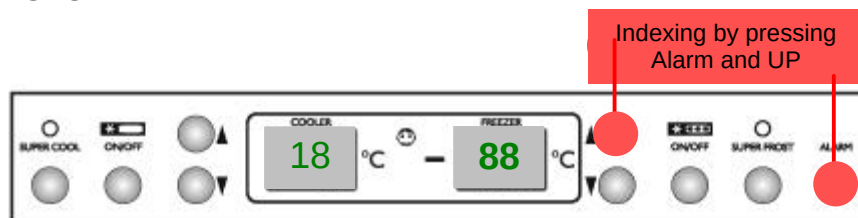


Test step IO can be activated by pressing Alarm and UP 3 times.

P1, P2 and P3 are reserved for factory testing.

If no indexing occurs, error messages such as F5 – F9, FA, FC, FE, FH or FL can be caused.

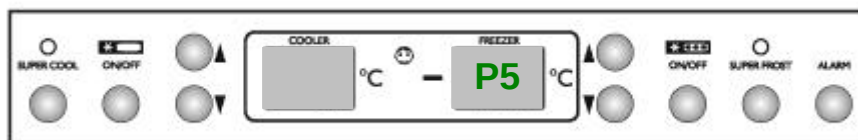
TEST STEP 4



- All LED's will flash
- Flashing 88 on freezer display, 18 on refrigerator display
- Continuous audible warning signal
- Interior light comes on

By closing the refrigerator door the appliance is switched to test step 5.

TEST STEP 5

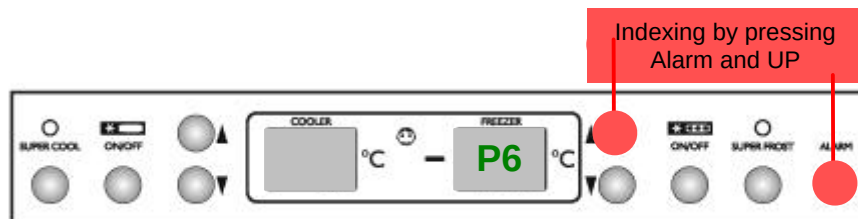


All buttons must be pressed once.

In addition the freezer door must be opened. These functions are confirmed by the child-proof lock symbol.

If all functions are confirmed and the freezer door opened (reed contact recognised) the appliance proceeds with test step 6.

TEST STEP 6



The defrost heater can be switched on and off by pressing the SuperFrost button (SuperFrost LED lights up when defrost heater is switched on).

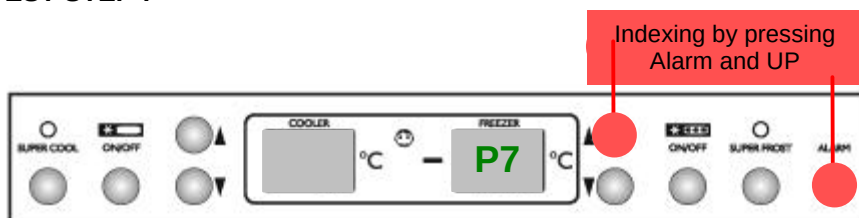
At an evaporator temperature of approx. +40°C the heater is switched off. This condition is indicated by the flashing SuperFrost LED.

The message can be acknowledged by pressing SuperFrost once again. Only then can the heater be switched on again.

This test step can also be used for defrosting a heavily iced-up evaporator, since higher temperatures are achieved than in the normal defrosting routine.

This defrosting process should be monitored by a customer service technician (high temperatures!)

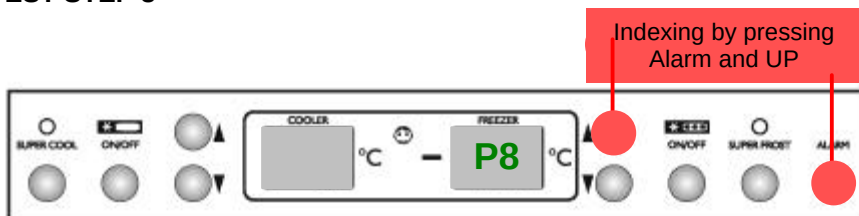
TEST STEP 7



Freezer compressor and freezer fan ON

NB: While the self-diagnosis routine is processed, the freezer fan is running even with the door open.

TEST STEP 8

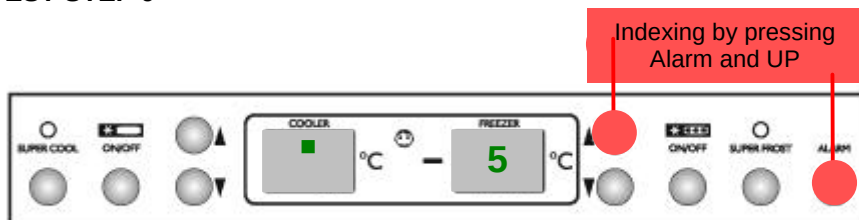


While the compressor for the refrigerator/BioFresh compartment is running, the refrigerator fan operates at low speed.

The refrigerator fan is switched to maximum speed by pressing the SuperCool button.

NB: While the self-diagnosis routine is processed, the BioFresh fan is running even with the door open.

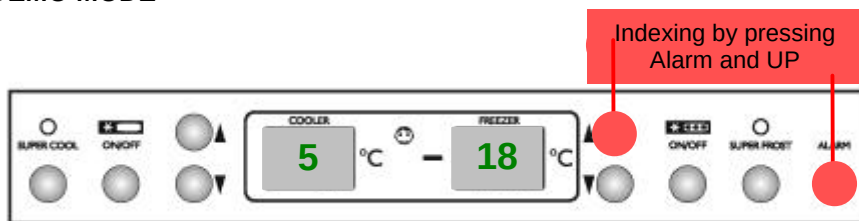
TEST STEP 9



The current sensor temperature (without offset) is shown every 1.5 sec.

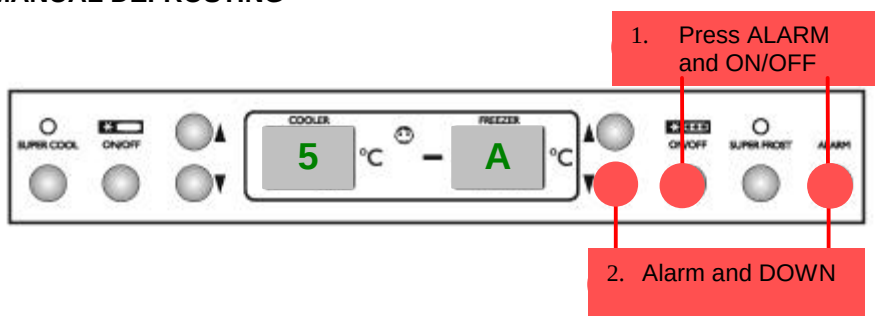
The appliance runs in normal operating mode according to saved desired values.

Sensor, temperature example	Character sequence, example KT GT
Refrigerator/BioFresh evaporator sensor, e.g. -13°C	⁰ -13
Refrigerator air sensor, e.g. +5°C	^L 5
BioFresh air sensor, e.g. 0°C	^b 0
Ambient air sensor, e.g. +25°C	^U 25
Freezer evaporator sensor, e.g. -23°C	^o -23
Freezer air sensor, e.g. -18°C	^L -18

DEMO MODE

In Demo mode all functions are fully operational.
Compressors, heater and fans are off.

By pressing the Alarm and UP buttons once again or by briefly disconnecting the appliance from the mains the appliance switches to normal operating mode.

MANUAL DEFROSTING

The appliance defrosts until the freezer evaporator sensor reads +5°C or 50 minutes defrosting time have elapsed.

Once the defrost phase is finished the appliance switches to normal operating mode.

13.0. Error code table

- F0 BioFresh air sensor faulty
- F1 Refrigerator air sensor faulty
- F2 Refrigerator evaporator sensor faulty
- F3 Freezer air sensor faulty
- F4 Freezer evaporator sensor faulty
- F5 No EEPROM (power board must be replaced)
- FU Ambient temperature sensor faulty (only possible during self-diagnosis routine)

In the event of a freezer sensor fault, the freezer compressor and freezer fan are switched to continuous operation.

In the event of a refrigerator sensor fault, the refrigerator compressor is switched on for 30 minutes and then switched off for 70 minutes (emergency operation).

14.0. Accessories

Our appliances with automatic IceMaker are fitted with a 1.5 m armoured flexible hose as standard.

A 3 m armoured flexible hose (part no. 6030 795-00 / PG 33) is available as an accessory.