Product division

Refridgerating / Freezing

Refridgerator and freezer centre

GAGGENAU

IK 300-254

IK 302-254

IK 300-354



























Temperature ranges

Freezer comp.

-18°C and colder

"cool-fresh" comp.

close 0°C



Refrigerator comp.

4°C to 14°C

















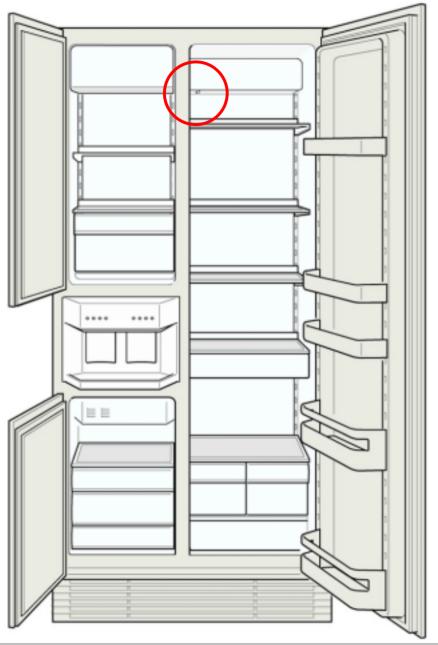












Main switch

Separates two-pole from the net



























Ice and water dispenser



























Operation refridgerator compartment



Switch to the temperature indication for the refridgerator comp.





Temperature setting



The setting range is 4 °C to 14 °C.



















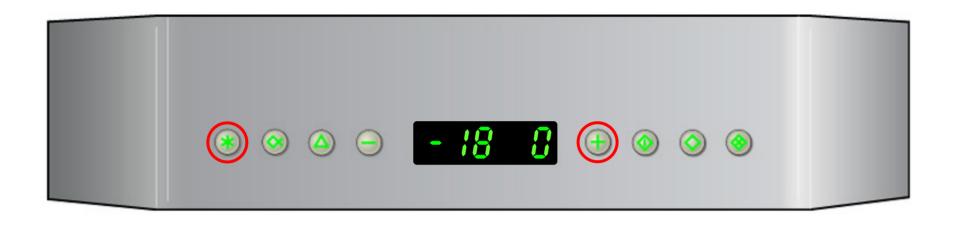








Switching the refrigerator compartment on and off



simultaneously press the



and



buttons

Interior lighting expires

the "cool-fresh" compartment temperature is only displayed





























Temperature display for the refridgerator



Only the required temperature is displayed



















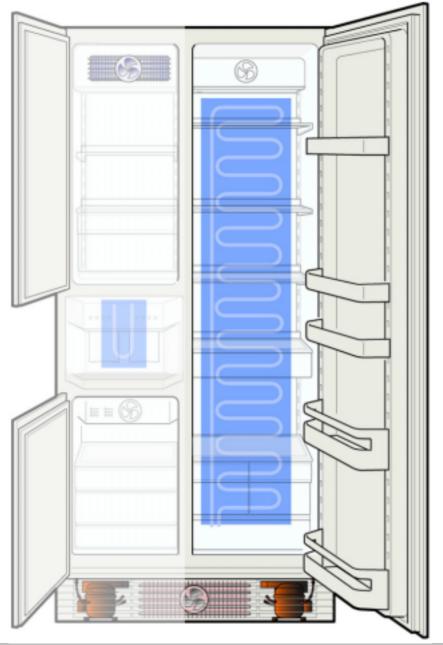












Refridgerator compartment

- Single-circuit cooling system
- Evaporator behind the air conductor
- Fan for air circulating



















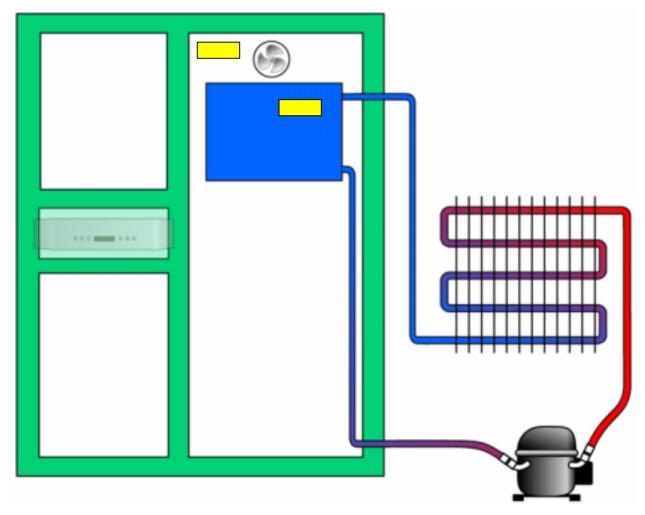








Temperature control





















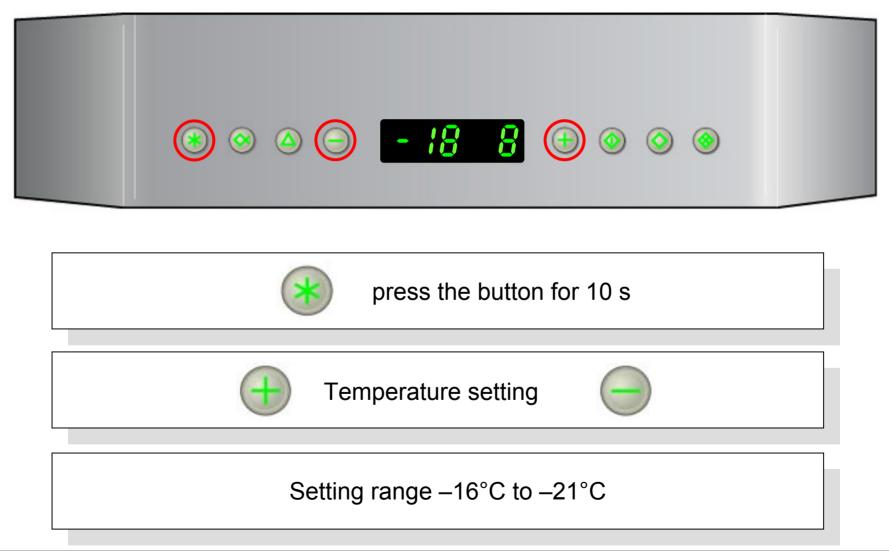








Operation freezer compartment























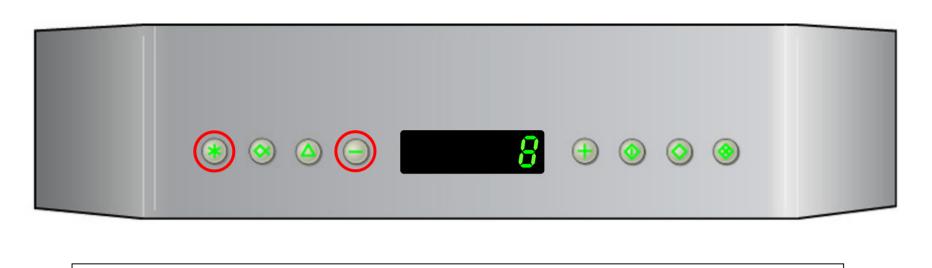








Switching the left side of the appliance on and off



simultaneously press the (**) and (**) buttons

Interior lighting expires

Display shows only the refridgerator temperature





























Fast freeze



Press button

Freezer compartment temperature is regulated for 24h on -26°C

After 24 hours fast freeze switches off by itself































Alarm function





Button and temperature display flashes

Temperatur raises over -3°C

With pressing the



button the alarm is deactivated for 6h































Temperature displays freezer compartment

Freezer compartment temperature	Temperature display	
	Closed-loop control	Super mode
Colder than required temperature	Required temperature –1	Actual temperature
Between –16 °C and the required temperature –1	Required temperature	
Between –8 °C and –16 °C		
Temperature was previously colder than –16 °C	Required temperature	
Temperature was previously warmer than –8 °C	Actual temperature	
Warmer than –8 °C	Actual temperature	



















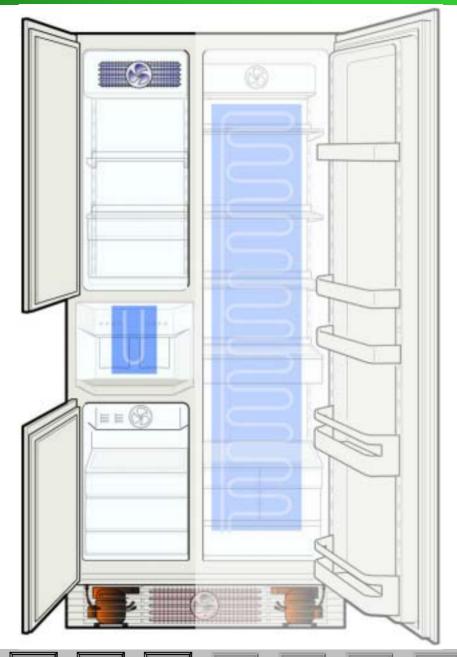






Freezer compartment

- Dual-circuit cooling system
- Lamellar evaporator
- Evaporator behind the air conductor
- Fan for air circulating



















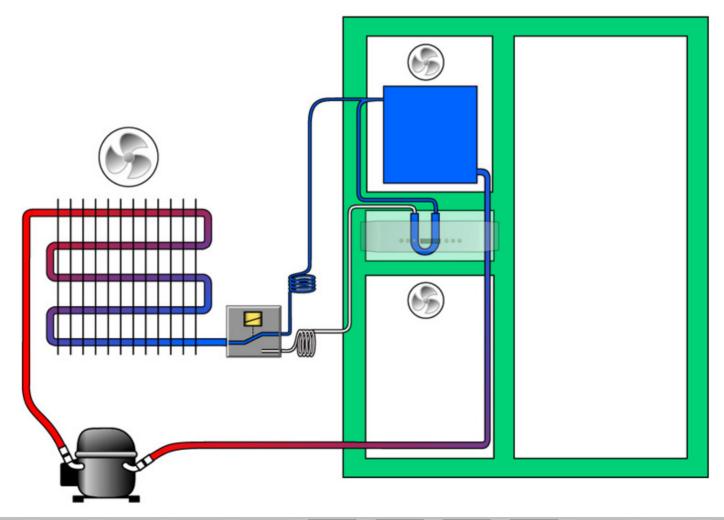








Dual-circuit cooling system



















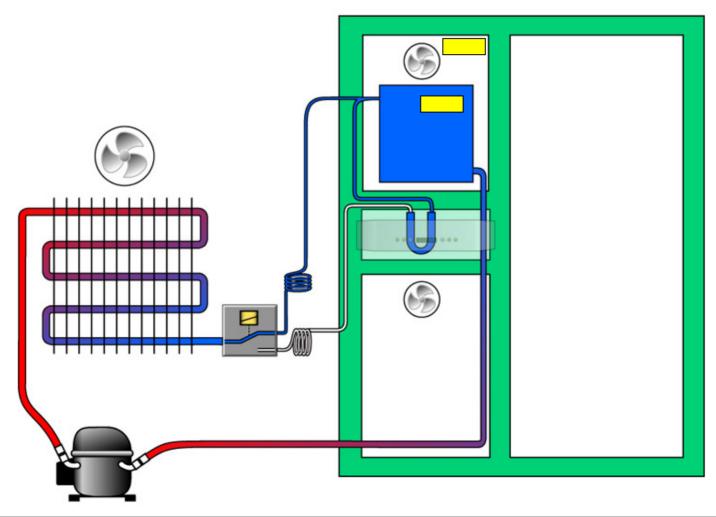








Operation freezer compartment

















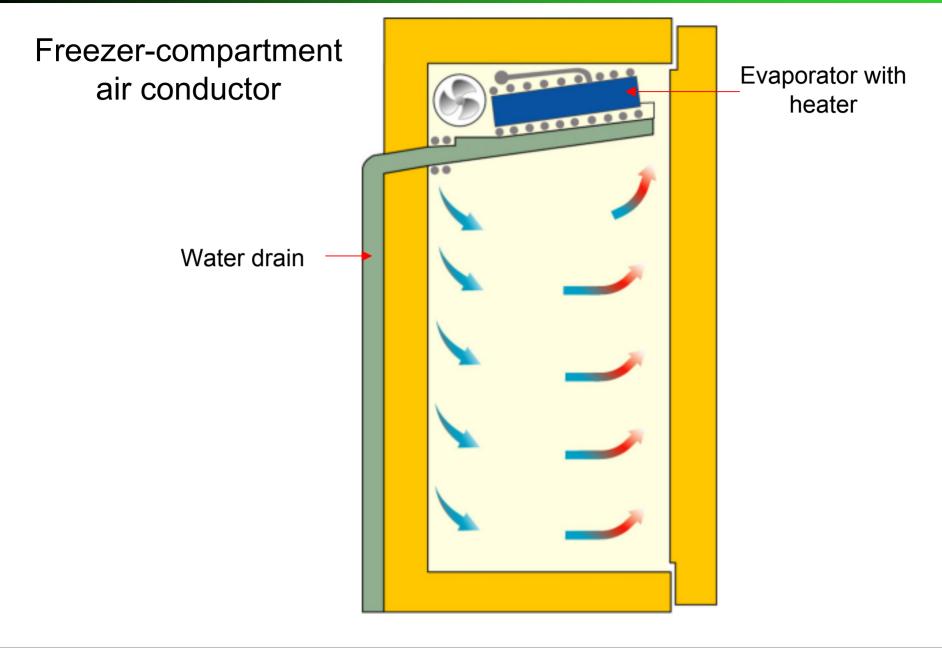






































Defrosting the freezer compartment

fuzzy control takes over the timing of the defrosting phase

The time between two defrosting phases is calculated in such a way that a time of 16 min is set for the defrosting phase



The interval between defrosting phases is specified by the electronics module and cannot be influenced



















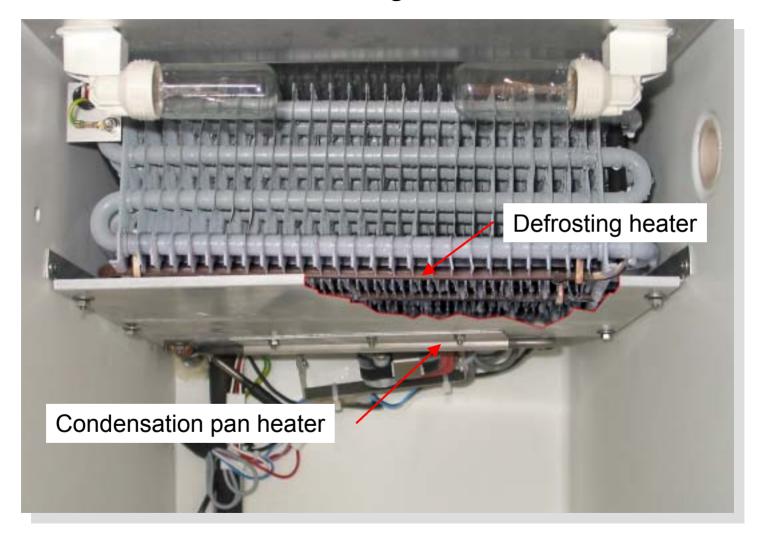








Defrosting heater























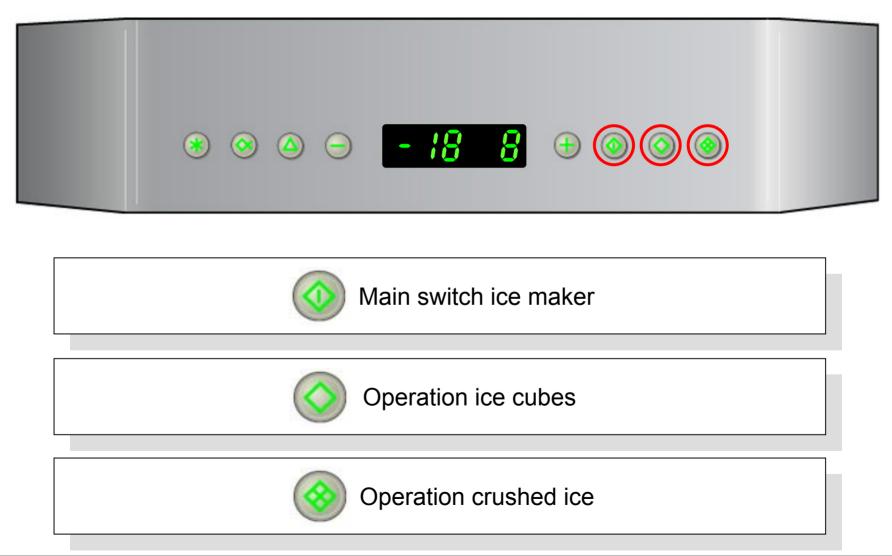








Operation ice maker

























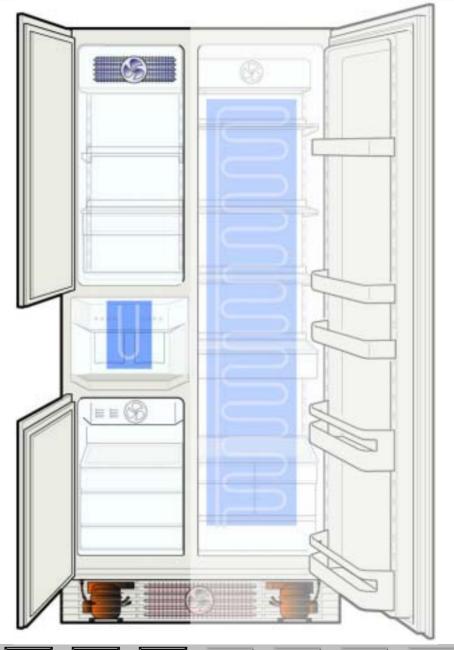






Ice maker

- Dual-circuit cooling system
- Evaporator with ice rods



















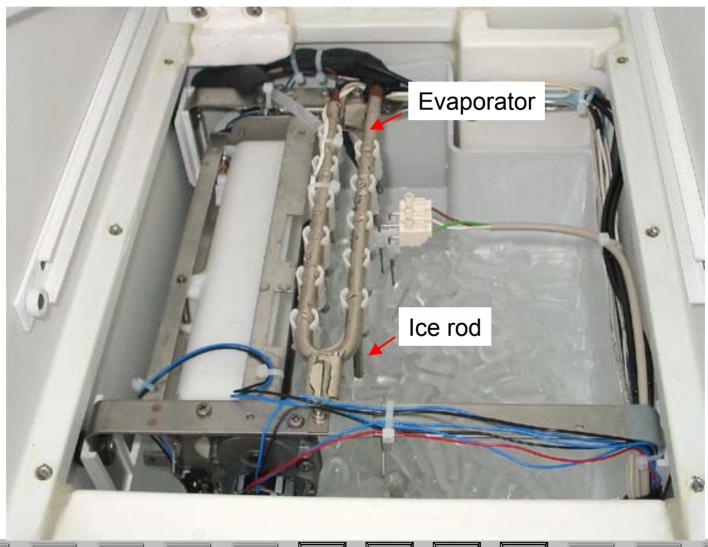








Evaporator with ice rods

















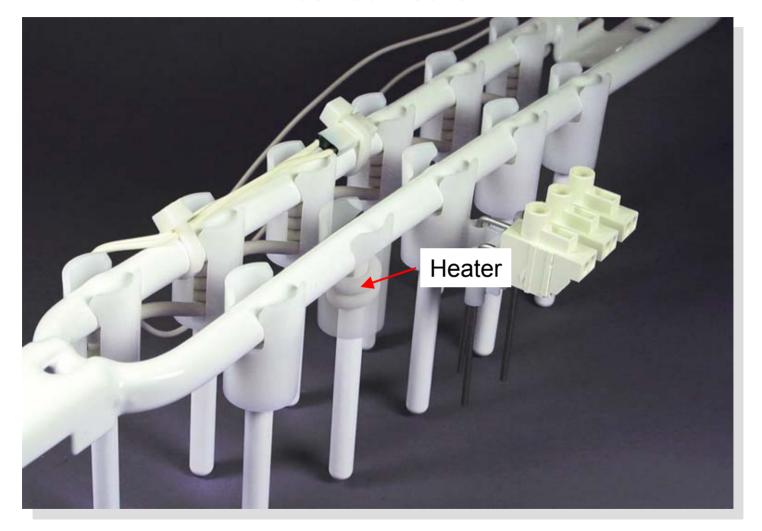








Ice rod heater























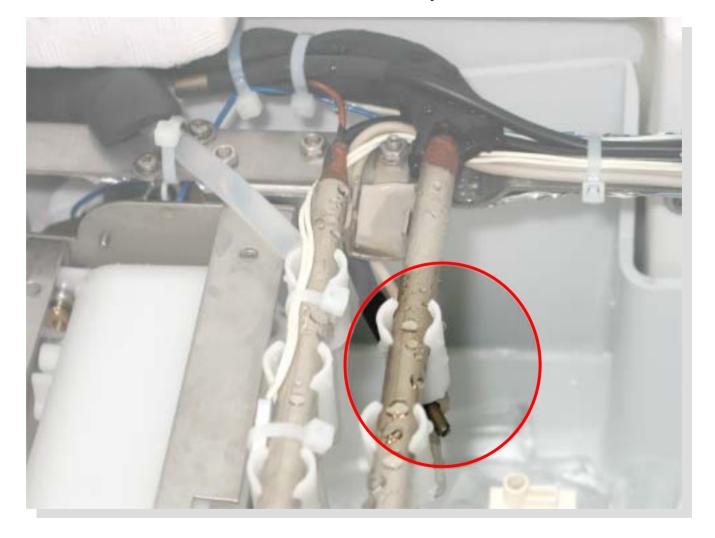








Sensor at the evaporator





























Sensor in the ice maker compartment





















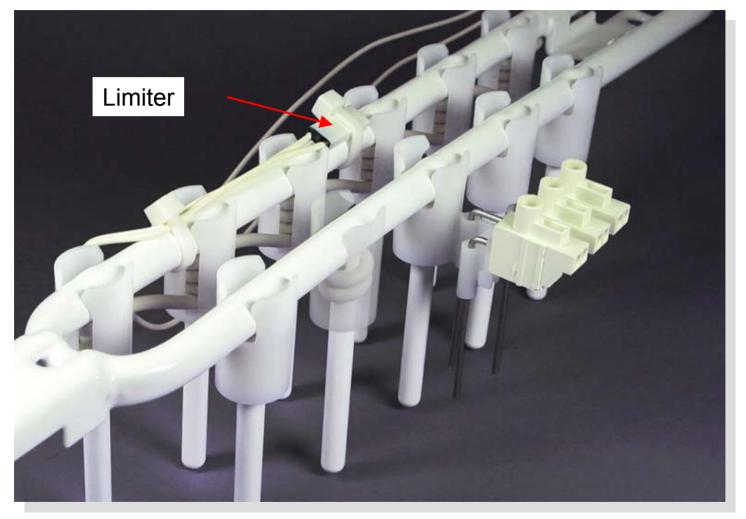








Safety temperature limiter





















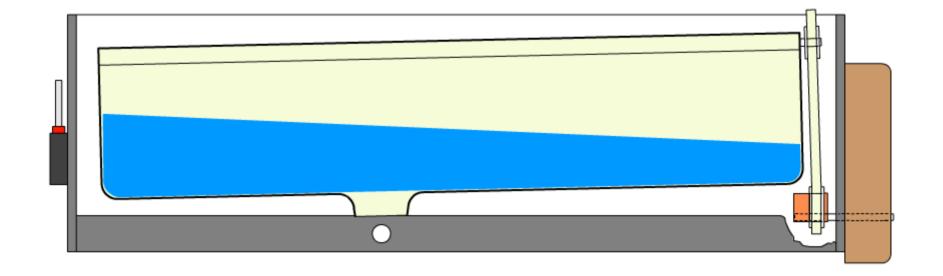








Water bowl



















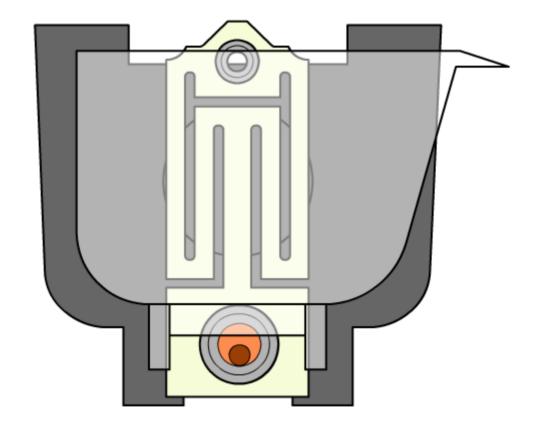








Actuation water bowl



















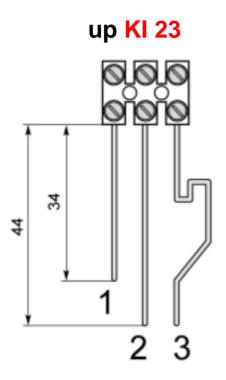






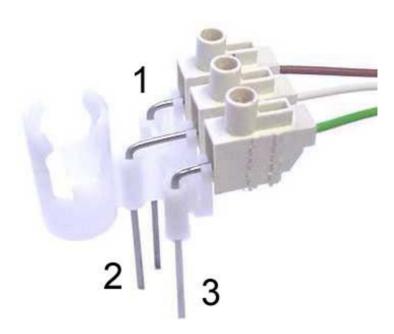


Water electrodes



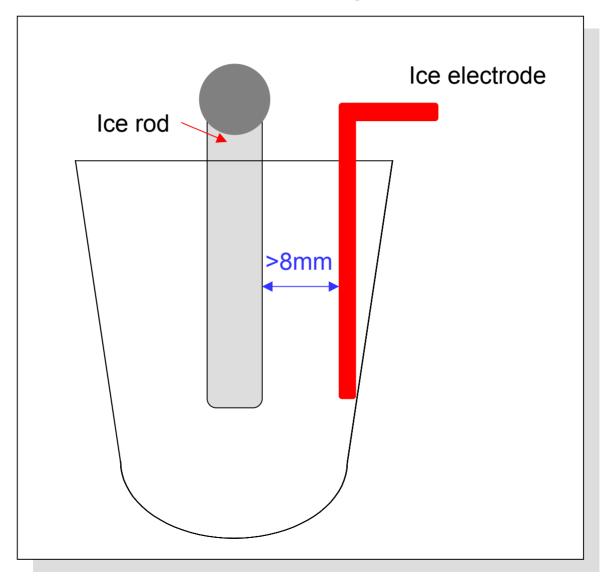
- 1. Water electrode
- 2. Common electrode
- 3. Ice electrode





- 1. Water electrode
- 2. Ice electrode
- 3. Common electrode

Ice cubes to big





















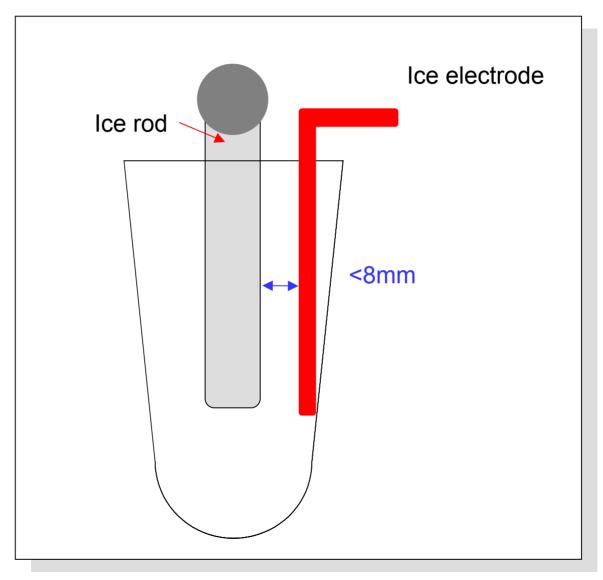








Ice cubes too small



















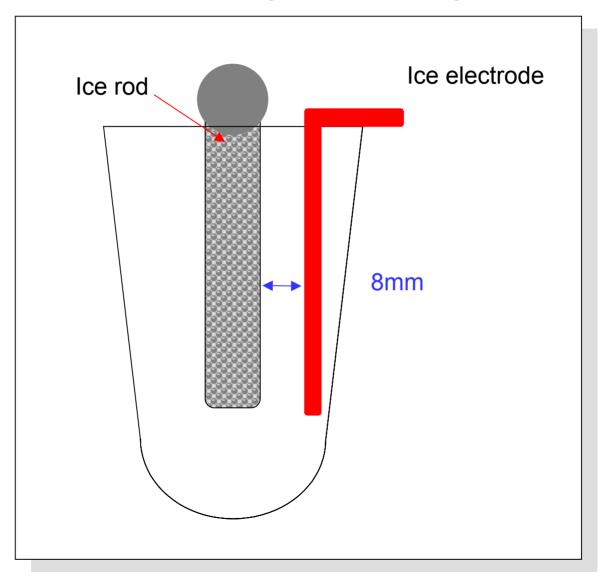








Ice cubes too high and too big



















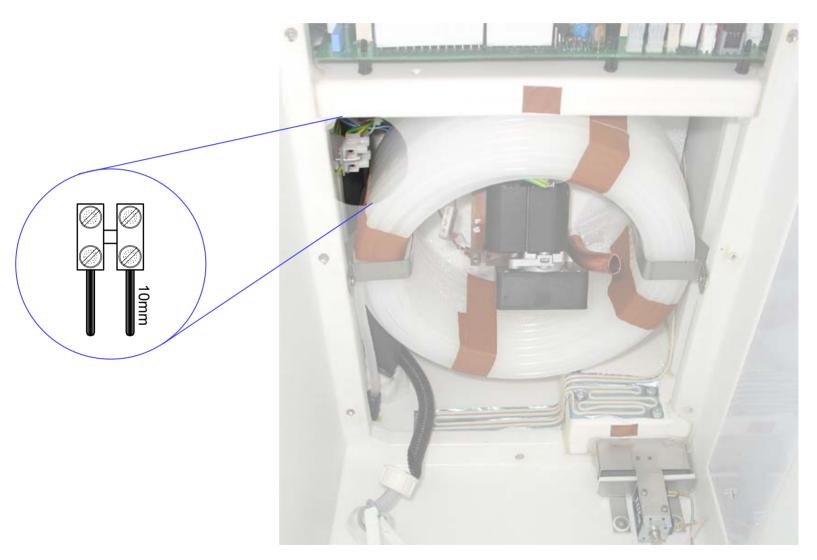








Electrodes on the base of the ice maker



















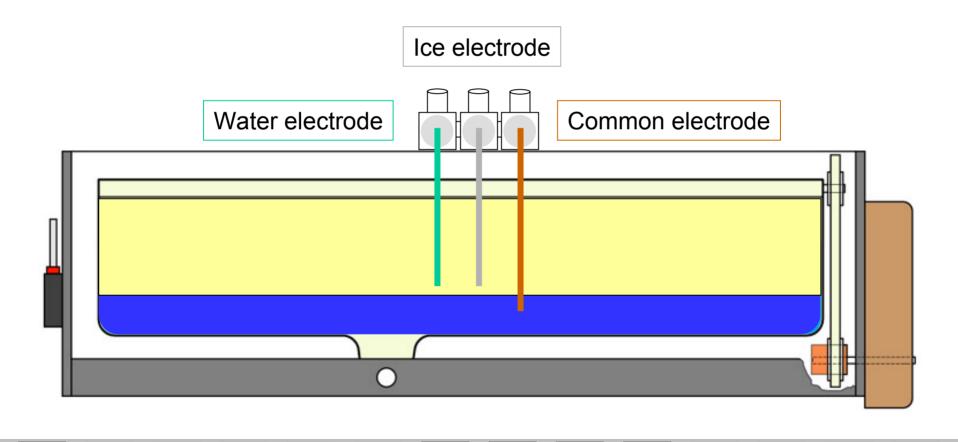




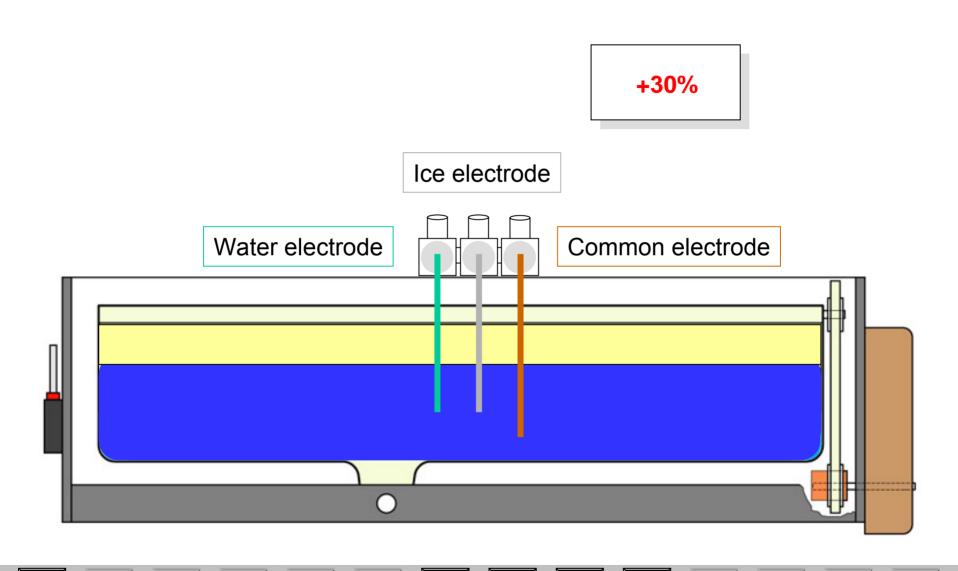




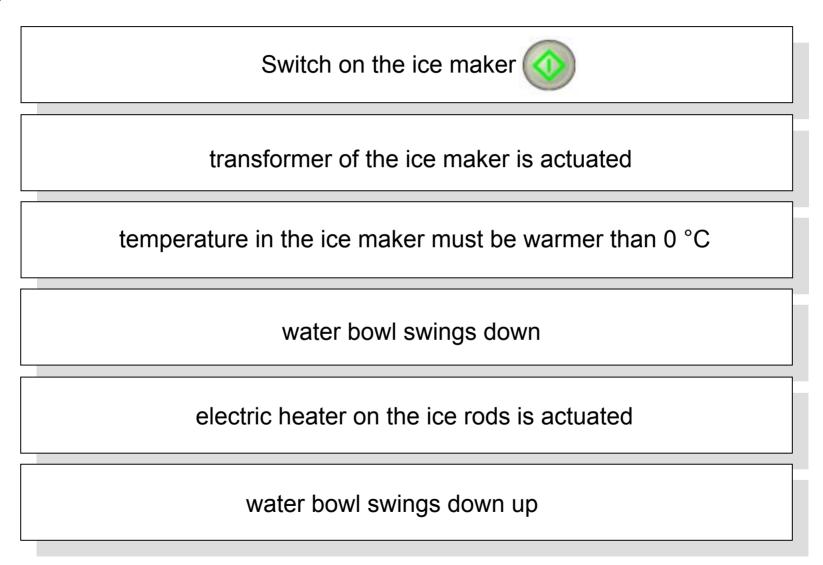
Operation water electrodes



Operation water electrodes



Operation ice maker





















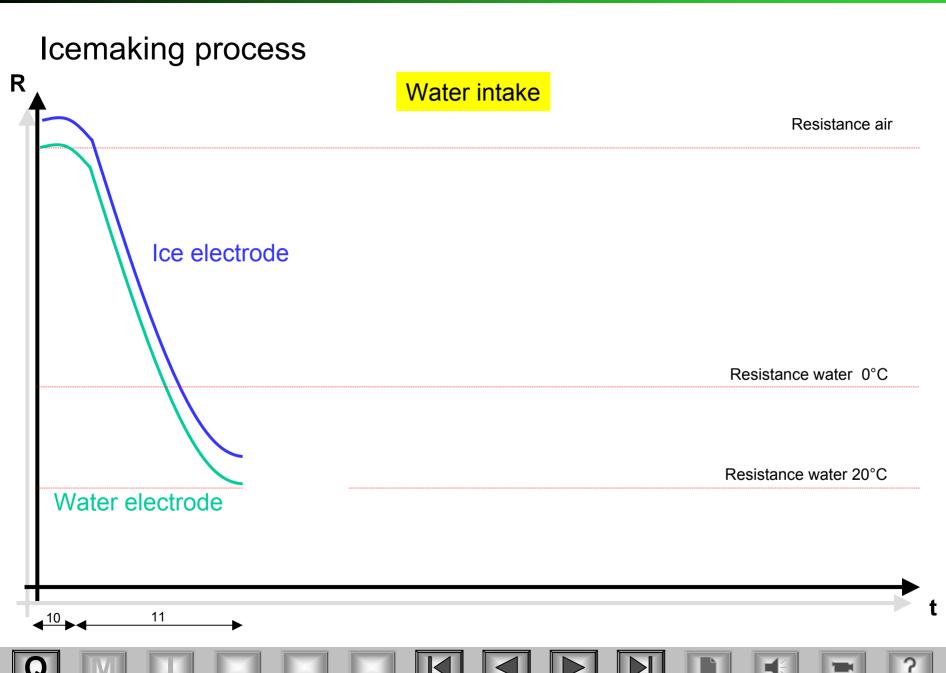


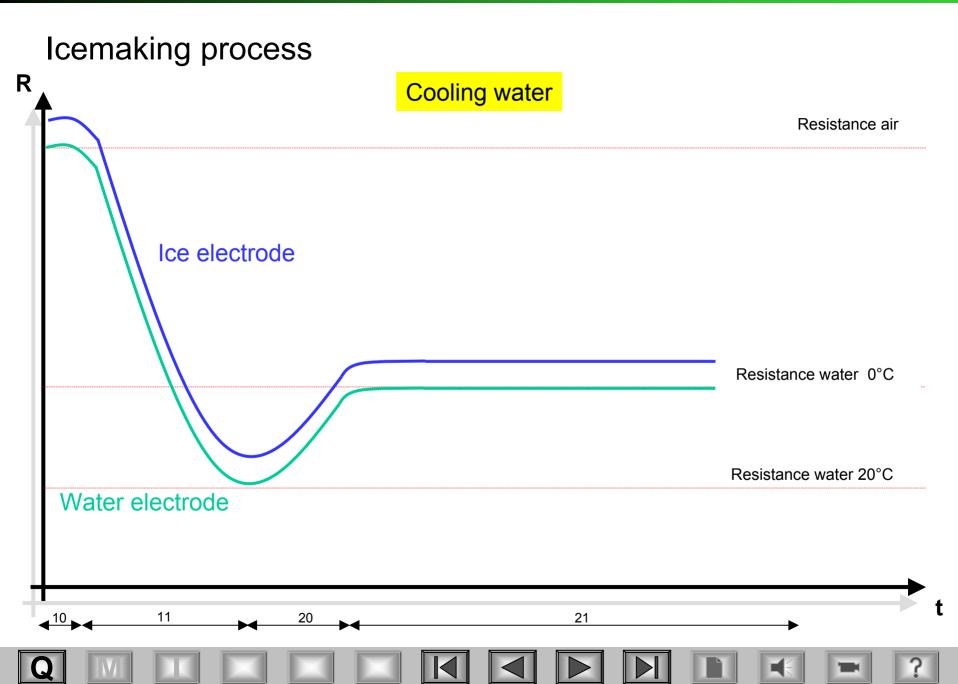


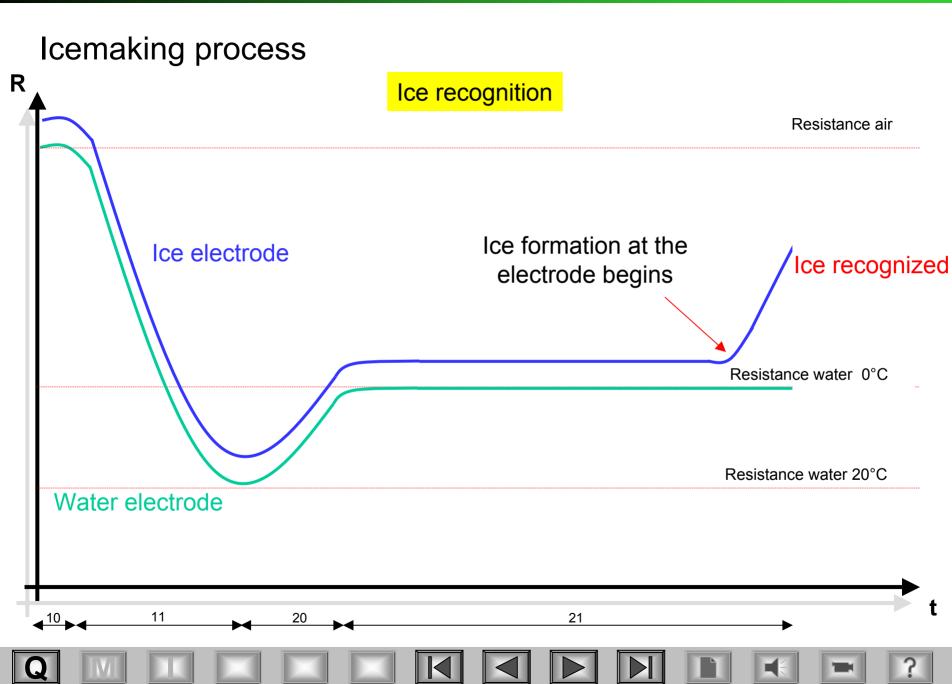


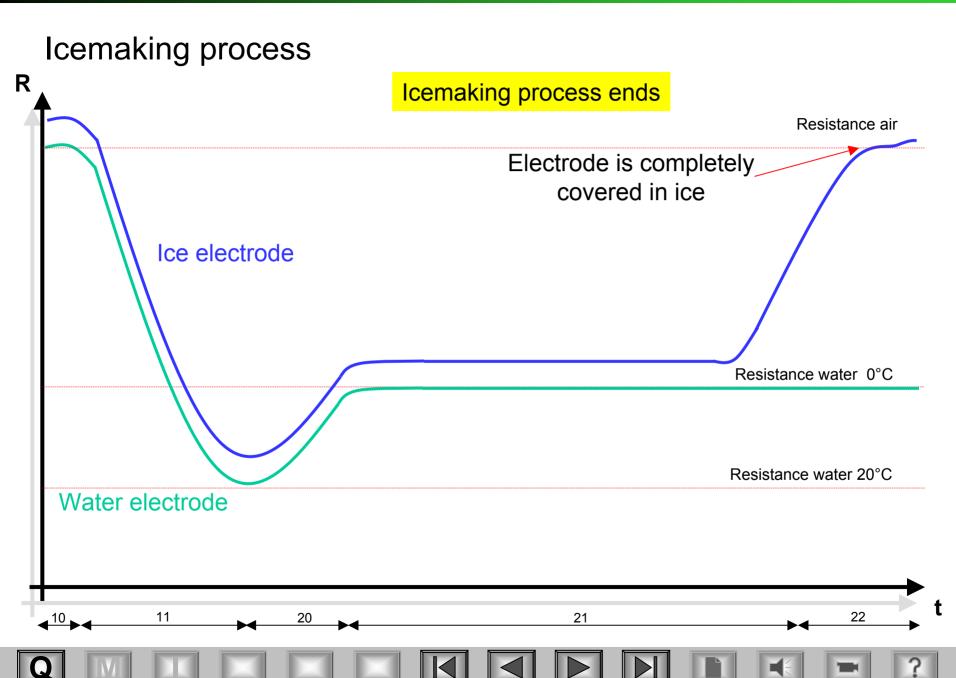




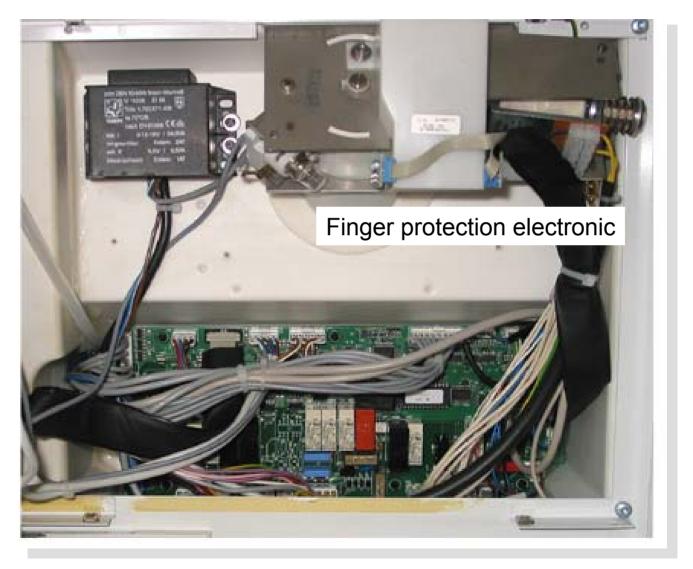








Finger protection electronics module





















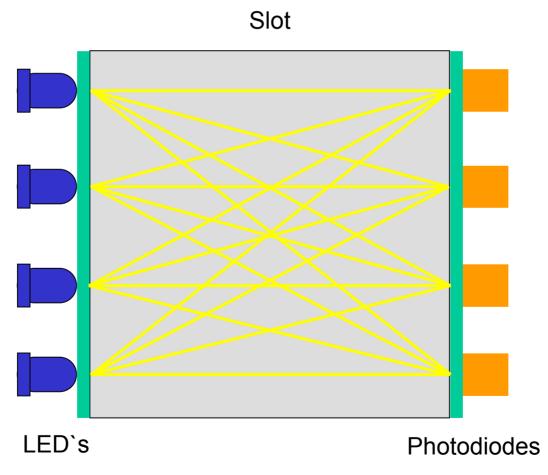








Operation finger protection electronics module





























Drinking water preparation



Under the ice maker

















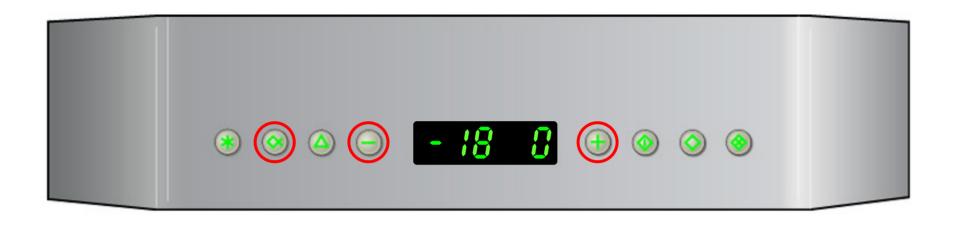








Operation "cool-fresh" compartment



Switch to the temperature indication for the "cool-fresh" comp.





Temperature setting



Setting range 1°C to 8°C





























Temperatur display "Cool-fresh" compartment



required temperature is displayed























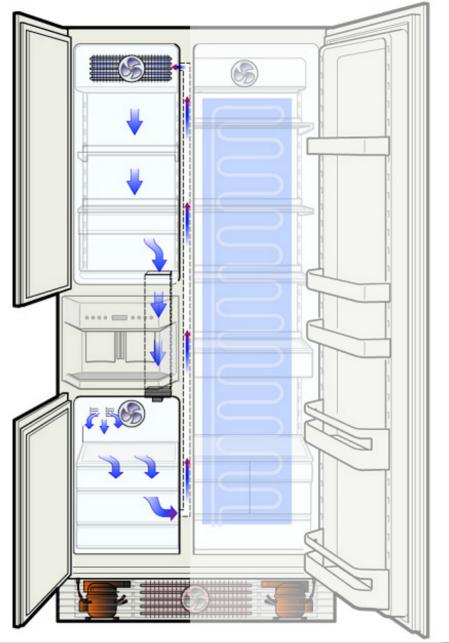






"Cool-fresh" compartment temperature control

- refrigerated with cold air from the freezer
- Fan for air circulating
- Electromechanical air flap





















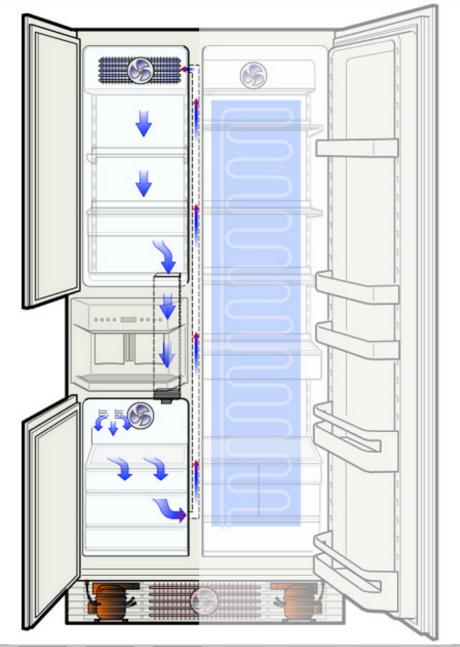






Operation "cool-fresh" compartment

- Supply airduct behind ice maker
- Return airduct in the partition to the refridgerator compartment



















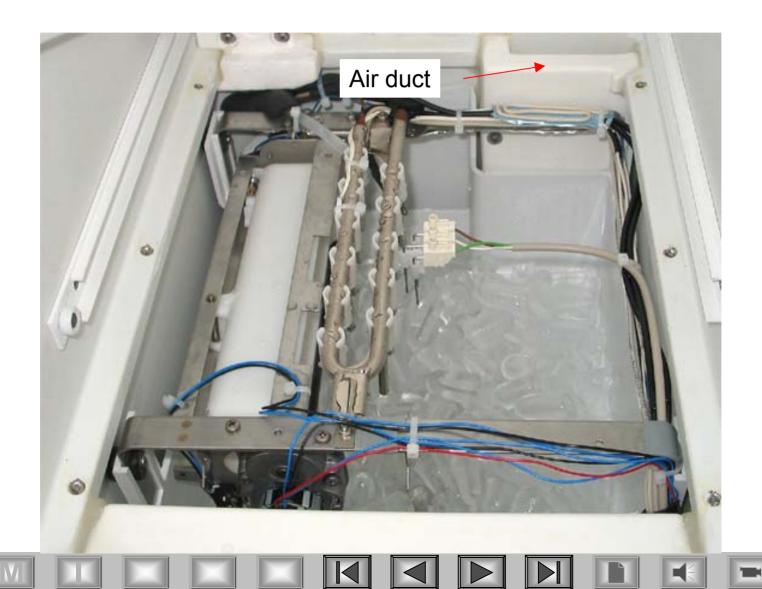




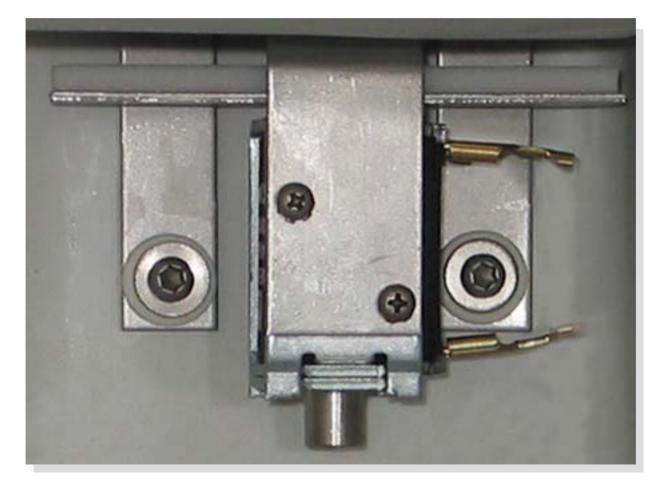




Airduct behind the ice maker



Electromechanical air flap































Freezer compartment

Return airduct

"cool-fresh" compartment





























Fan in the "cool-fresh" compartment























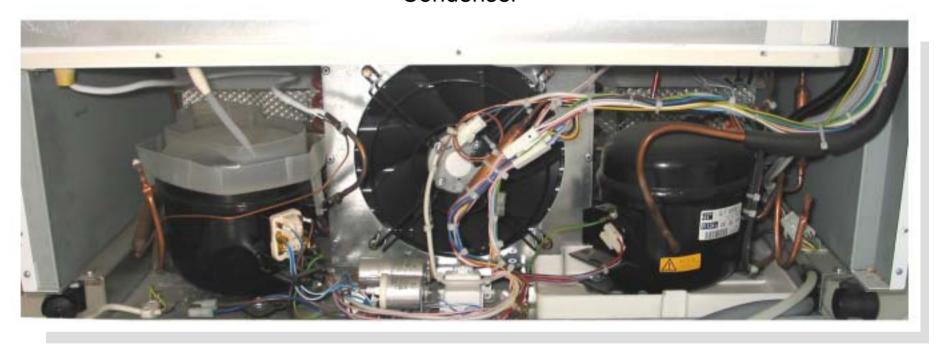






Motor compartment

Condenser



compartment

Compressor refridgerator Refrigerant solenoid valve Compressor freezer compartment

backside























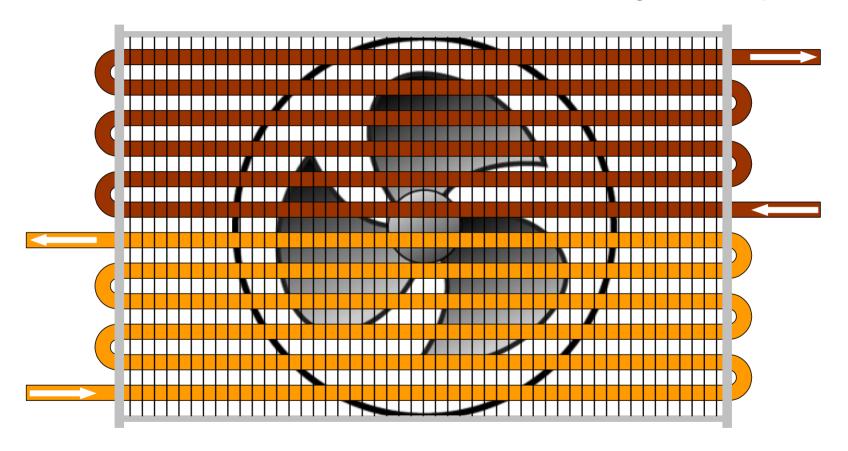






Condenser

Refridgerator compartment



Freezer compartment



















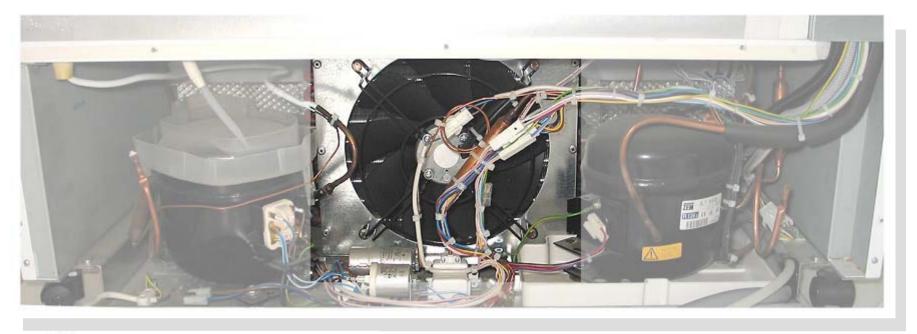


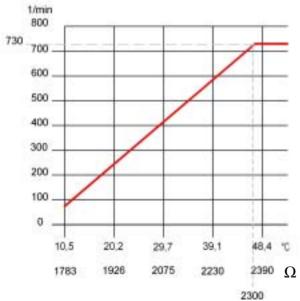






Refrigerating / Freezing Product Division





Condenser fan























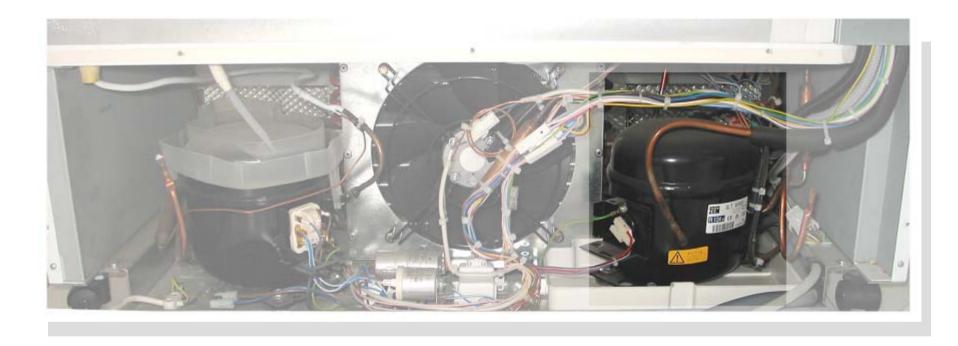








Compressor freezer compartment























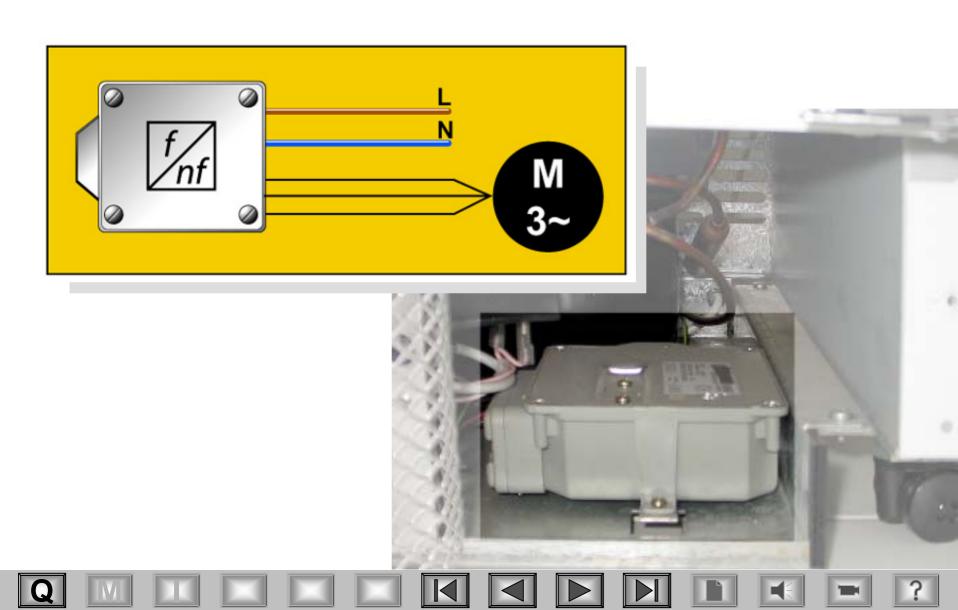




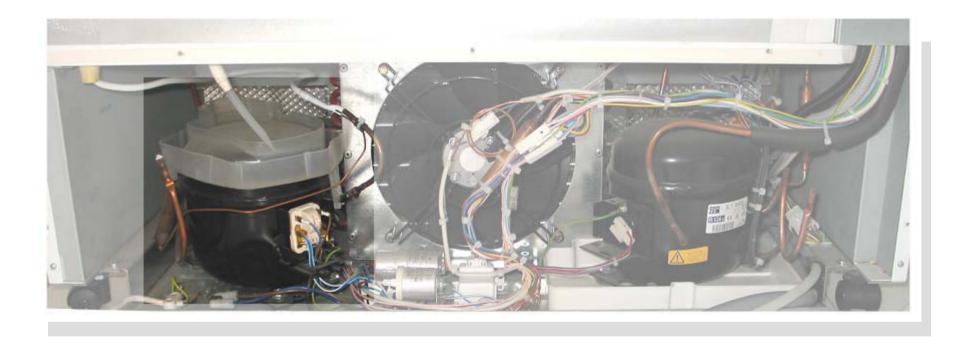




Actuation freezer compartment compressor



Refridgerator compartment compressor



















































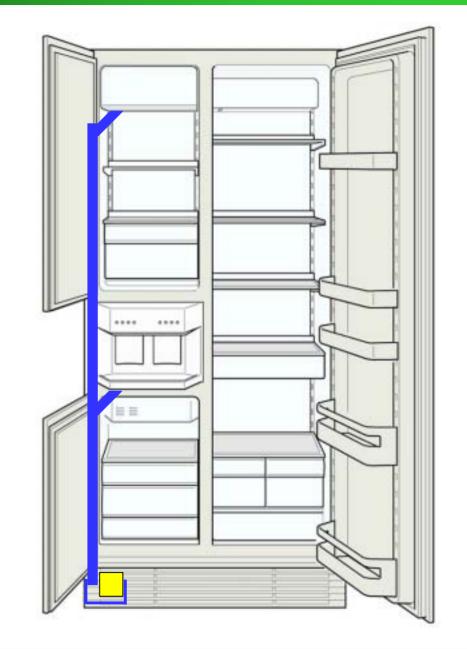




Refrigerating / Freezing Product Division

Waste water guidance

Condensation water of the freezer compartment















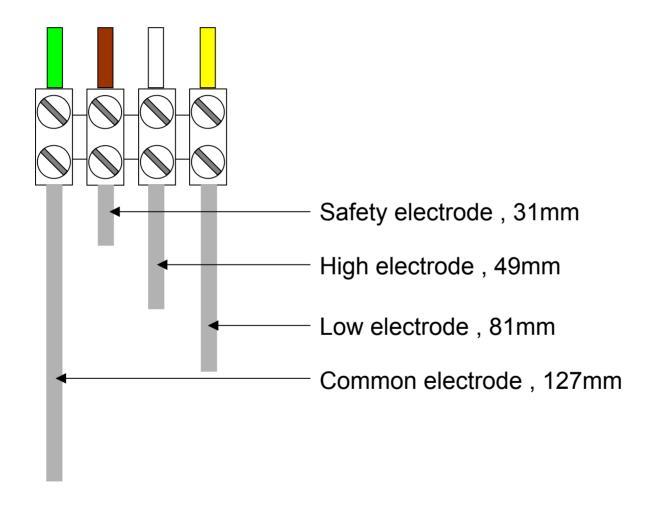








Water electrodes up KI 21



















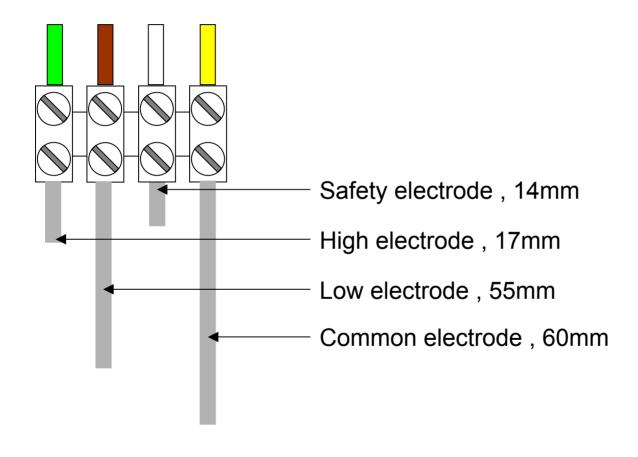








Water electrodes from KI 22



















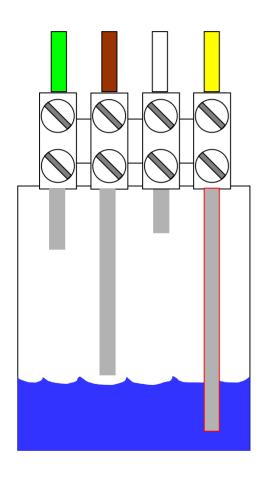


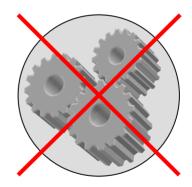






Common electrode in the water

























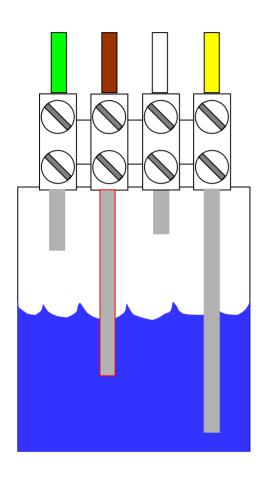








Low electrode in the water























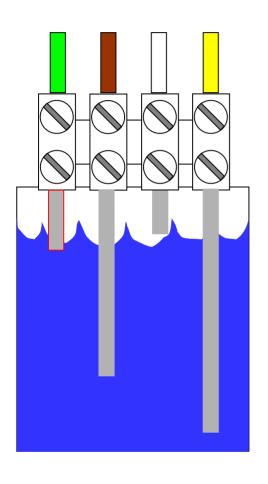


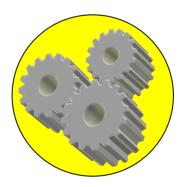






High electrode in the water

























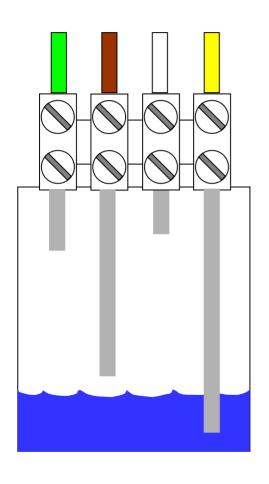


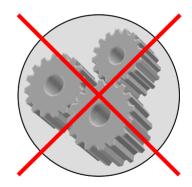






Water tank empties























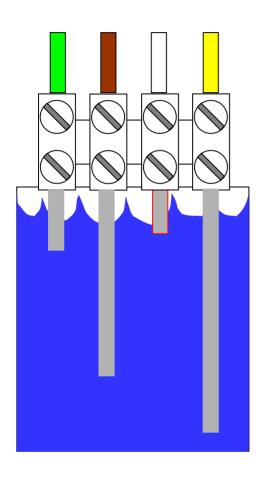


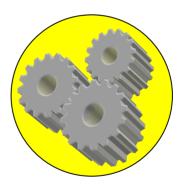






Safety electrode in the water





























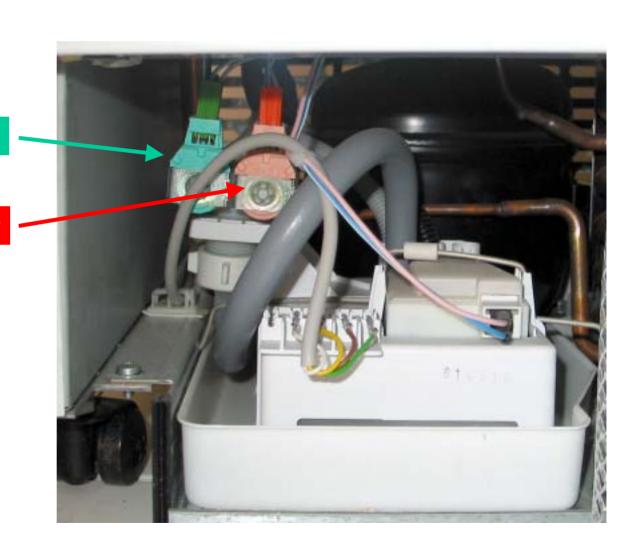




Water solenoid valve

Valve ice maker

Valve drinking water





















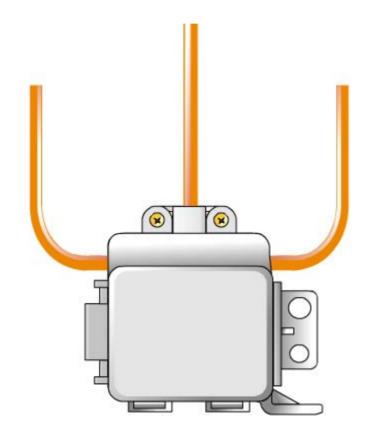








Refrigerant solenoid valve



















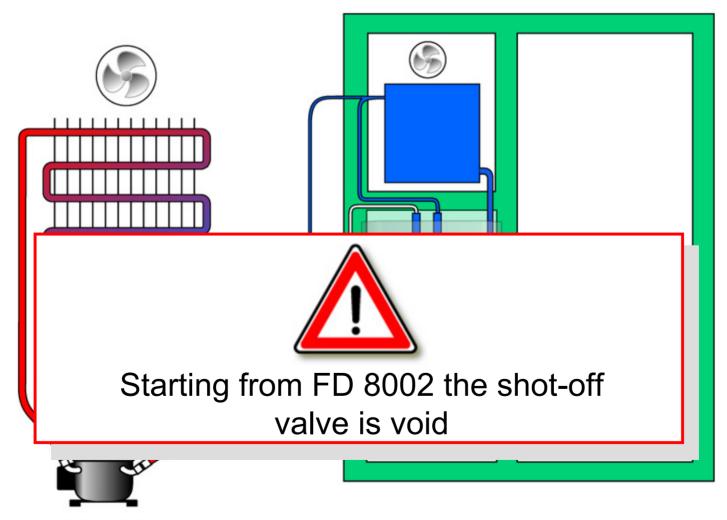








Shot-off valve



















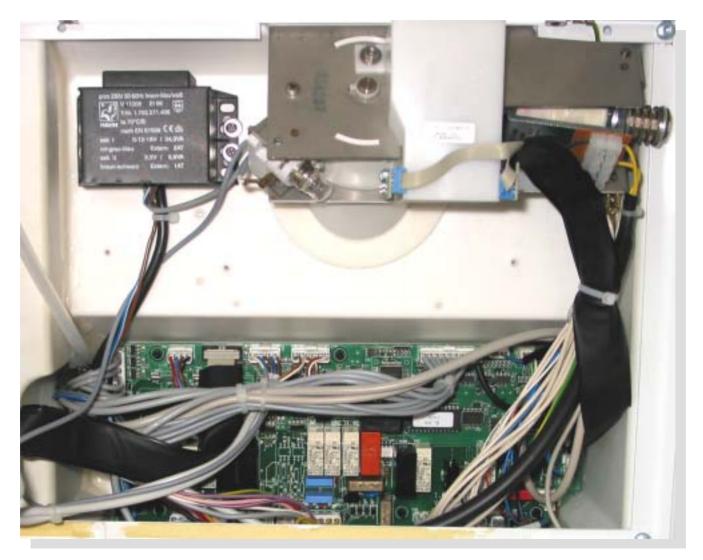








Electronics module





























Electronics module up KI 21

X502 X103 X200 X100 X801 Interface



X300

X500 X501 X401 X403 X403

009X





























Electronics module from KI 22

X502 X103 X200 X801 X100 Interface



X300

X200

X401 X404 X403 X600



























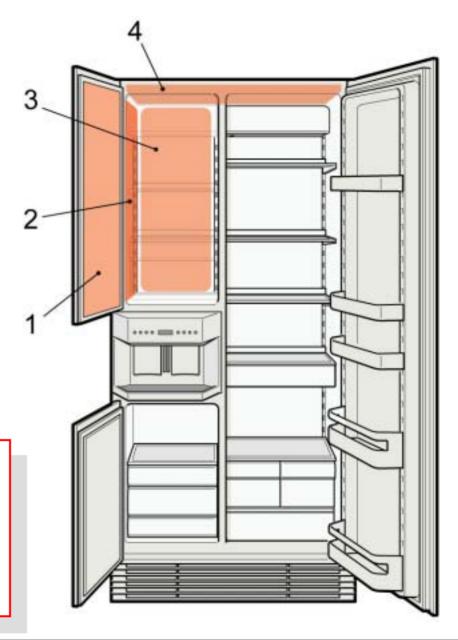


Vacuum panels

- 1. Freezer compartment door
- 2. Left side panel
- 3. Rear panel
- 4. Top of the appliance



Only appliances KI 21 up FD 8003























Fault codes



On the left side of the display alternating with the temperature indication error messages are spent



















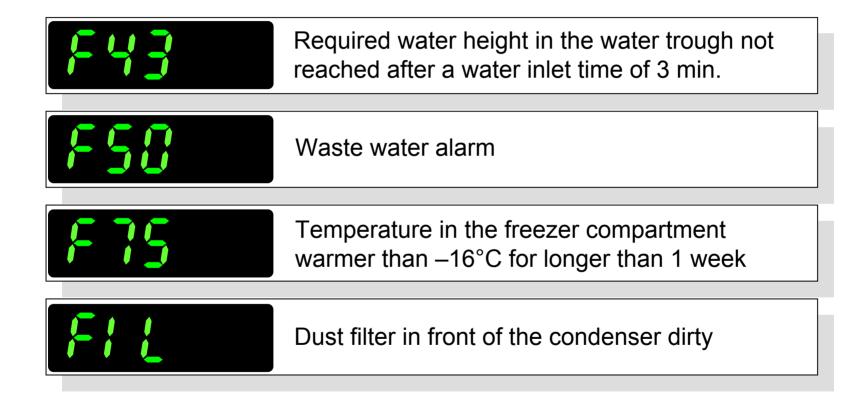








Faults are displayed in closed-loop control































Fault memory



The fault codes are saved and can be displayed in the service programm



























F 1 and F 2 Compartment sensor in the refrigerator compartment

Fault code F1 indicates an interrupted sensor and fault code F2 a short-circuited sensor.

The fault can be found on the sensor or on the supply cable to the electronics module.

If these faults occur, the compartment is operated in an emergency programme

























F 3 and F 4 Evaporator sensor in the refrigerator compartment

Fault code F3 indicates an interrupted sensor and fault code F4 a short-circuited sensor.

The fault can be found on the sensor or on the supply cable to the electronics module.

If these faults occur, the compartment is operated in an emergency programme





























F 5 - The set required temperature in the refrigerator compartment was not reached within 24 h

- A large amount of warm food was placed in the compartment.
- Condenser or dust filter on the base plate dirty.
- Appliance incorrectly installed
- Door seal leaking
- The refrigerator compartment fan is not running
- The condenser fan is not running or is running too slowly
- No refrigerant in the refrigerant circuit
- The compressor is not running

























F 11 and F 12 - compartment sensor in the freezer compartment

Fault code F11 indicates an interrupted sensor and fault code F12 a short-circuited sensor.

The fault can be found on the sensor or on the supply cable to the electronics module.

If these faults occur, the compartment is operated in an emergency programme



























F 13 and F 14 Evaporator sensor in the freezer compartment

Fault code F13 indicates an interrupted sensor and fault code F14 a short-circuited sensor.

The fault can be found on the sensor or on the supply cable to the electronics module.

If these faults occur, the compartment is operated in an emergency programme



























F 15 - Defrosting phase was unsuccessful twice in succession

During the defrosting phase the temperature on the evaporator did not become warmer than –12 °C twice in succession.

- The defrosting heater is not actuated or is defective
- The safety thermal cut-out has actuated
- > The evaporator sensor is defective

























F 16 - evaporator temperature in the freezer compartment did not drop by 1 K within 5 min

This fault is only registered if the evaporator temperature is warmer than –6 °C and the fan does not run at all or longer than 5 min.

- Shut-off valve does not open
- The compressor is not running
- The evaporator sensor is defective
- No refrigerant in the refrigerant circuit

























F 21 and F 22 - Compartment sensor in the "cool-fresh" compartment

Fault code F21 indicates an interrupted sensor and fault code F22 a short-circuited sensor.

The fault can be found on the sensor or on the supply cable to the electronics module.

If these faults occur, the compartment is operated in an emergency programme

























F 23 - The set required temperature in the "cool-fresh" compartment has not been reached for 24 h

- The panel in the "cool-fresh" compartment is not situated on the base of the ice maker
- The air duct from the freezer compartment has frozen over
- The equalizing air duct from the "cool-fresh" compartment to the freezer compartment has frozen over
- The air flap is frozen to the air duct outlet
- The "cool-fresh" compartment fan is not running

























F 24 - Temperature in the "cool-fresh" compartment colder than -2 °C for 15 min

- Air flap does not open
- Consumption values

























F 31 and F 32 - Ice rod sensor

Fault code F31 indicates an interrupted sensor and fault code F32 a short-circuited sensor.

The fault can be found on the sensor or on the supply cable to the electronics module.



























F 33 and F 34 - Compartment sensor in the ice maker

Fault code F33 indicates an interrupted sensor and fault code F34 a short-circuited sensor.

The fault can be found on the sensor or on the supply cable to the electronics module.



























F 35 - Temperature in the ice maker colder than 0°C for 2 h

- Check ice-maker cover for leaks
- The heater is not actuated or is defective
- Check sensor
- Check air duct

























F 37 - Limit switch at bottom is switched on while the water bowl is being swung up



This fault occurs only in appliances up to Eprom version 5.02

Possible causes

Check limit switches for the water bowl





























F 39 - Limit switch at top is switched on while the water bowl is being swung down



This fault occurs only in appliances up to Eprom version 5.02

Possible causes

Check limit switches for the water bowl

























F 40 - In the descaling programme the temperature on the ice rod has not risen above 5 °C for 5 min



This fault occurs only in appliances from KI 22 and Eprom version 6.01

Possible causes

- The heater is not actuated or is defective
- Safety thermal cut-out has actuated
- Check sensor
- The refrigerant solenoid valve does not switch over

In addition to this error message, fault code F46 is also output



























F 41 - Temperature on the ice rod is rising above 1 °C during the ice making process



This error message indicates a problem in the refrigeration circuit.

Possible causes

- Check sensor
- Shut-off valve does not open
- The compressor is not running
- No refrigerant in the refrigerant circuit

Fault codes F16 or F31 may also be displayed.



























F 43 - Required water height in the water bowl not reached after a water inlet time of 3 min

- No water supply
- Water valve does not open
- Supply hose in the water bowl has frozen over
- Water electrodes are not being detected

























F 44 - Temperature on the ice rod remains above 0 °C for 1 h during the ice making process

- Check sensor
- Shut-off valve does not open
- The refrigerant solenoid valve does not switch over
- No refrigerant in the refrigerant circuit

























F 45 - Duration of ice production over 3 h

- Ice electrodes are not being detected
- Electronics module defective



























F 46 - Temperature on the ice rod does not rise above 5°C after 1 h during the defrosting process

- The heater is not actuated or is defective.
- Safety thermal cut-out has actuated
- Check sensor
- The refrigerant solenoid valve does not switch over

























F 47 - Temperature on the ice rod is warmer than 49 °C

- The heater is actuated continuously
- Check sensor























F 50 - Waste water alarm

The fault is only output if water was detected for longer than 10 min by the safety electrodes on the ice-maker base or the waste water pump.

- Water outlet in the ice maker frozen over
- Waste water pump is not running
- Appliance incorrectly installed
- Electrodes are not being detected





























F 51 - The value of the reference measurement for the finger protection was too high

The measured value during the reference measurement of the finger protection electronics module was too high, even though no LED was lit.

- Too much external light
- An LED is on

























F 52 - The value of the reference measurement of the finger protection was too low

The measured value during the reference measurement of the finger protection electronics module was higher with actuated LED than the value without LED.

- Plug X504 on the electronics module has not been plugged in properly
- Ice dispenser slot dirty
- Finger protection electronics module defective

























F 53 - The measured value of the finger protection electronics module without LED was too high during operation



The fault can only occur when the ice dispenser button is actuated.

The measured value on the photodiode was too high, even though no LED was actuated.

- Too much external light
- An LED is on



























F 54 - Comparison measurement of the photodiodes during the reference measurement of the finger protection

The measured values of all photodiodes are compared with each other. If there are differences, this error message is output.

- Ice dispenser slot dirty
- Water droplets on the photodiode
- Too much external light
- LED fitted at an angle to the circuit board
- > Finger protection electronics module defective



























F 55 - The measured values from the comparison measurement of the photodiodes are outside the tolerance

Possible causes

Electronics module defective

























F 60 - The low electrode in the waste water container is continuously detecting water

Due to the low electrode in the waste water container, the electronics module is continuously detecting water

- Waste water pump is not running
- Safety electrodes in the ice-maker base are in the water

























F 61 - The low electrode in the waste water container is detecting no water

Due to the low electrode in the waste water container, the electronics module is detecting no water

Possible causes

- Waste water pump is not running
- Safety electrodes in the ice-maker base are in the water

























F 62 - The high electrode in the waste water container is continuously detecting water

Due to the high electrode in the waste water container, the electronics module is continuously detecting water

Possible causes

Safety electrodes in the ice-maker base are in the water



























F 63 - The high electrode in the waste water container is detecting no water

Due to the high electrode in the waste water container, the electronics module is detecting no water

Possible causes

Safety electrodes in the ice-maker base are in the water



























F 64 - Electrodes on the water bowl are not being detected

The water bowl was swung down min. 3 times without water being detected by the electrodes

Possible causes

Electrodes are not being detected



This fault occurs only in appliances up to **KI 22** and Eprom version **5.02**.



























F 69 - Evaporator temperature in the freezer compartment did not drop by 1K 4 times within 5 min

The electronics module detects that fault **F 16** has already been output 4 times and outputs fault code **F 69**.

Possible causes

- The refrigerant solenoid valve does not switch over
- Shut-off valve does not open
- No refrigerant in the refrigerant circuit
- The compressor is not running



This fault is displayed as F 75 in closed-loop control.























F 72 - Clean the dust filter

This error message requires the customer to clean the dust filter in front of the condenser.



F 72 is not displayed but FIL.































F 75 - Temperature in the freezer compartment warmer than -16 °C for longer than 1 week



This fault is stored as **F** 69 in the fault memory of the service programme.

Possible causes

- Ambient temperature is warmer than 43 °C
- Condenser or dust filter on the base plate dirty.
- Appliance incorrectly installed
- The condenser fan is not running
- The freezer compartment sensor is defective
- The freezer compartment fan is not running



















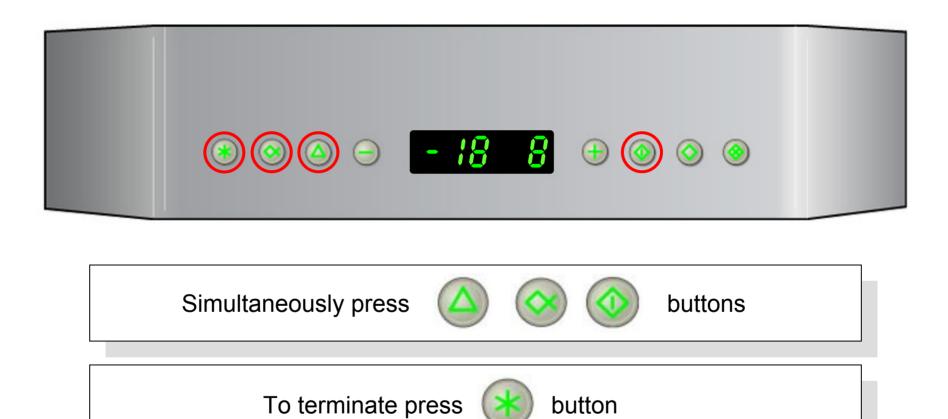








Serviceprogramme























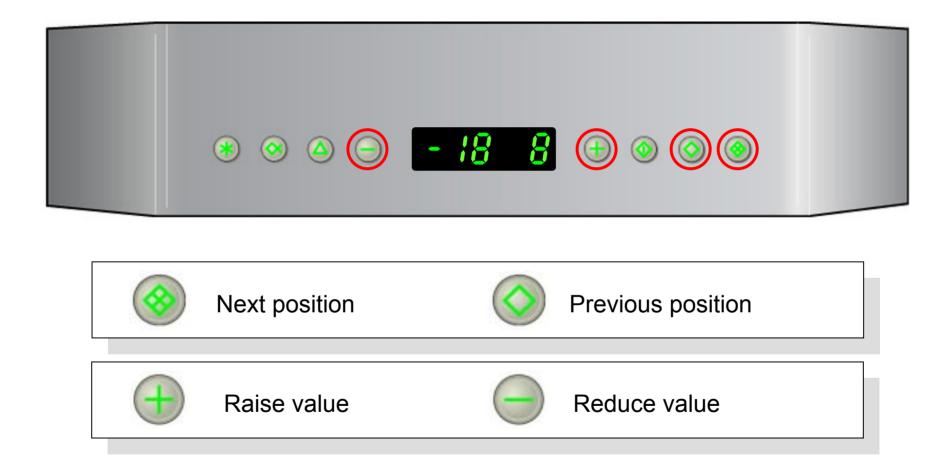








Navigation in the serviceprogramme

























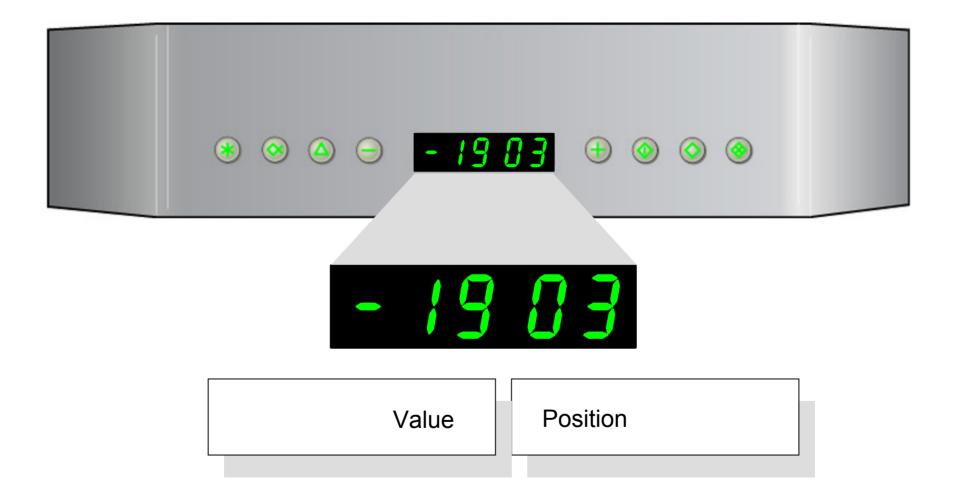








Display in the serviceprogramme

































Defrosting the freezer compartment

A defrosting phase can be started by entering a 1

Value

- Defrosting is not running
- > 01 Defrosting is required but is currently not possible as the ice
 - maker is running
- Defrosting is running































till



The current temperature value of the sensors are displayed in °C

	01	Compartment sensor,	refrigerator compartment
--	----	---------------------	--------------------------

- 02 Evaporator sensor, refrigerator compartment
- 03 Compartment sensor, freezer compartment
- 04 Evaporator sensor, freezer compartment
- 05 Compartment sensor, ice maker
- 07 Evaporator sensor, ice rod
- 80 Compartment sensor, "cool-fresh" compartment

































till



Correction values

> 11	Compartment sensor, refrigerator compartment
----------------	--

- **12** Evaporator sensor, refrigerator compartment
- 13 Compartment sensor, freezer compartment
- **14** Evaporator sensor, freezer compartment
- 15 Compartment sensor, ice maker
- 17 Evaporator sensor, ice rod
- > 18 Compartment sensor, "cool-fresh" compartment

Correction values of the temperature sensors

The correction values have been set at the factory.



It is not usually necessary to change these values.



























Change of the correction values

Example:

The measured value is 2 °C colder than the displayed value. The correction value must be changed to –2.

Old value: **–2** New value: **–4**

The value must be changed by -2. (-2 -2 = -4)

Old value: +2 New value: 0

The value must be changed by -2. (+2 -2 = 0)

Old value: **–2** New value: **+1**

The value must be changed by +3. (-2 +3 = +1)

























till



Monitoring of the temperature sensors on short-circuit

value 0 Sensor in measuring range - value 1 Fault detected

Anzeige

- 21 Refrigerator compartment sensor short-circuited
- 22 Refrigerator compartment evaporator sensor short-circuited
- > 23 Freezer compartment sensor short-circuited
- > 24 Freezer compartment evaporator sensor short-circuited
- 25 Ice maker compartment sensor short-circuited
- > 27 Ice rod evaporator sensor short-circuited
- **28** "Cool-fresh" compartment sensor short-circuited































till



Monitoring of the temperature sensors on interruption

value 0 Sensor in measuring range - value 1 Fault detected

- 31 Refrigerator compartment sensor interrupted
- > 32 Refrigerator compartment evaporator sensor interrupted
- > 33 Freezer compartment sensor interrupted
- 34 Freezer compartment evaporator sensor interrupted
- 35 Ice maker compartment sensor interrupted
- 37 Ice rod evaporator sensor interrupted
- > 38 "Cool-fresh" compartment sensor interrupted































till



Ice maker inputs and outputs of the electronics module

Value 0 Input not detected or output not actuated1

Value 1 Input detected or output actuated



























Position 41 till 49

Position

- 41 Water detected on the water electrode
- > 42 No water, ice or air detected on the ice electrode
- 43 Upper water trough limit switch has been actuated
- 44 Lower water trough limit switch has been actuated
- 45 Ice dispenser limit switch actuated
- 46 Refrigerant solenoid valve is positioned towards the ice maker evaporator
- 47 Drinking water dispenser button pressed
- 48 Ice dispenser button pressed
- 49 Waste water alarmis emitted by the safety electrode of the waste water pump or by the electrodes in the base of the ice maker































Defrost in the freezer compartment

Hours and minutes are displayed alternately

- Time until next defrosting phase depending on the door opening frequency
- 51 Time between two defrosting phases depending on the door opening frequency
- Time until next defrosting phase depending on the fan running time **52**
- **53** Time between two defrosting phases depending on the fan running time
- 54 Time until the next defrosting phase – Only within the first 10 to 15 days following start-up



























till



Doorswitch

Value 0 Contact open

Value 1 Contact closed

- 56 Reed switch, freezer compartment
- > 57 Reed switch, "cool-fresh" compartment
- > 58 Reed switch, refrigerator compartment





























Time - controlled ice making

With entering a 1 in Pos. 60 and 62 the Ibiza circuit is activated

- Time-controlled filling of the water trough, this function is switched on by entering a 1
- 61 Filling time of the water trough factory setting 50 s
- 62 Time-controlled ice maker this function is switched on by entering a 1
- 63 Time required to make ice factory setting 40 min.
- \triangleright 64 Minimum resistance value for ice detection the value is between 10 Ω and 80 Ω





























Statuses of the ice maker

Program sequence of the ice preparing can be examined



























Display

Sequence of ice maker

- > 01 Wait until the temperature in the ice maker is warmer than 0 °C
- O2 Swing down the water bowl
- 03 Ice rods are being heated
- O4 Up version 5.01 Swing up water bowl From version 5.02 – Wait until defrosting ends and freezer compartment temperature is cold enough
- O5 From Eprom version 5.01 Swing up water bowl
- > 10 Fill with water until the water level is detected by the electrodes
- 11 The water valve remains actuated for 30 % of the previously required filling time
- > 12 Water filling is time-controlled only if a 1 was entered in Pos. 60
- 20 Ice maker
- **21** Ice detection, ice is touching the ice electrode
- 22 The increase in the resistance value is monitored until the electrode is completely covered in ice
- 23 Ice maker is time-controlled only if a 1 was entered in Pos. 62



till



Values on the electrodes

≈ 850Ω Air

100 -700Ω Water

- > 66 Value which is measured on the ice electrode
- > 67 Value which is measured on the water electrode
- **68** Resistance difference between the values from Pos. 66 and 67
- **69** Resistance value of ice detection



























Limit temperature foe ice rod heater

During the ice production if this temperature at the ice pin is fallen below, then against heating temperature becomes with the ice pin heating

Range of adjustment: -30 to -0

Value -15 or -10































and



Interval until FIL is displayed

Basic setting 8 weeks

- 71 Setting range 1 to 99 weeks
- 72 Remaining time until display is activated



























Measured value of the photodiode for finger protection



Not relevant to customer service



Also from Eprom version 5.02

- Fault E40 Waste water pump actuated 3 times for no reason
- > Fault E41 Waste water pump actuated 4 times for no reason

From Eprom Version 6.02

- Fault E40 = E60
- Fault E41 = E61



























Value of the waste water electrodes

The setpoint value and the actual value are displayed alternately

< 210 corresponds to air

> 210 corresponds to water

Display

- **E0** Low electrode
- **E1** High electrode
- **E2** Safety electrodes

From Eprom version 6.02

- **E2** Electrode safety electrode in the waste water container
- **E3** Electrode safety electrode on the base of the ice maker



























Positionen



and



Control compressor freezer compartment

- > 75 E0 Relative ON duration of the compressor as a %
 - E1 Limiting value of the relative ON duration from which the shut-off valve remains open
- > 76 Time in h that the air temperature in the freezer compartment was above -16 °C



























Reference measurement of the finger protection electronics

A reference measurement can be started by registering a 1

Anzeige

- No measurement active
- > 1 Reference measurement is running
- Reference measurement was not successful, defective finger protection or electronics module



























Shut-off valve

By registering a 1 the valve remains always opened

- O Is actuated depending on the relative ON duration of the compressor
- Yalve remains permanently open



























Demonstration circuit

By registering a 1 the demonstration circuit switched on

- > **0** Demonstration circuit switched off
- > 1 Demonstration circuit switched on



























Fault memory

The fault and the frequency of the fault are indicated alternately on the left side of the display

If no fault has been saved, F 0 and 0 are displayed alternately



Memory forwards



Memory backwards





























Delete all entries in the fault memory

By registering a 1 and go to the next position

The fault memoray is deleted





























Component test programme



Within the first 7 s after switching on the appliance



The component test programme is ended switching off the appliance





















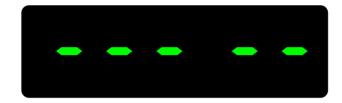






Selecting the programme

The display changes from



to























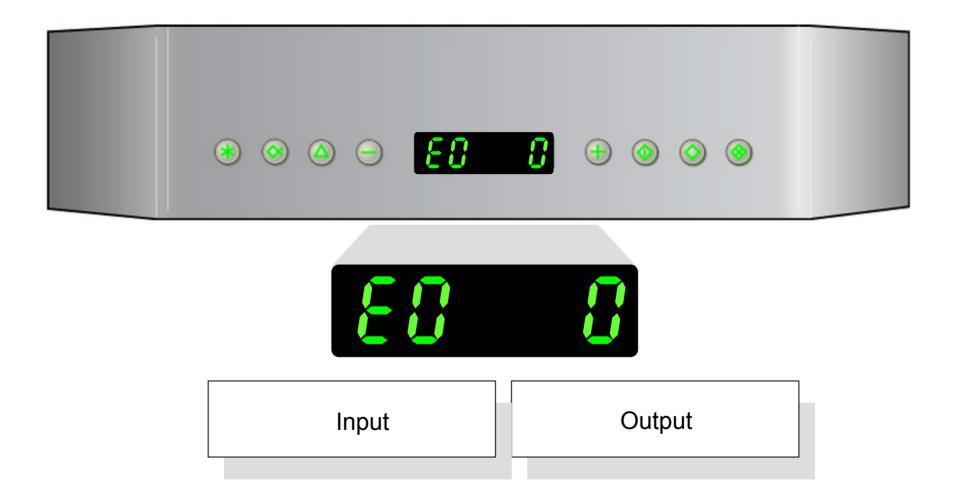








Display

























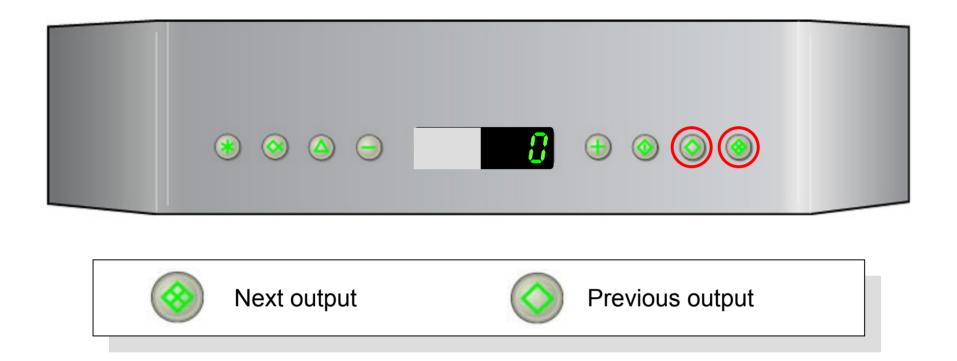








Outputs of the electronics module























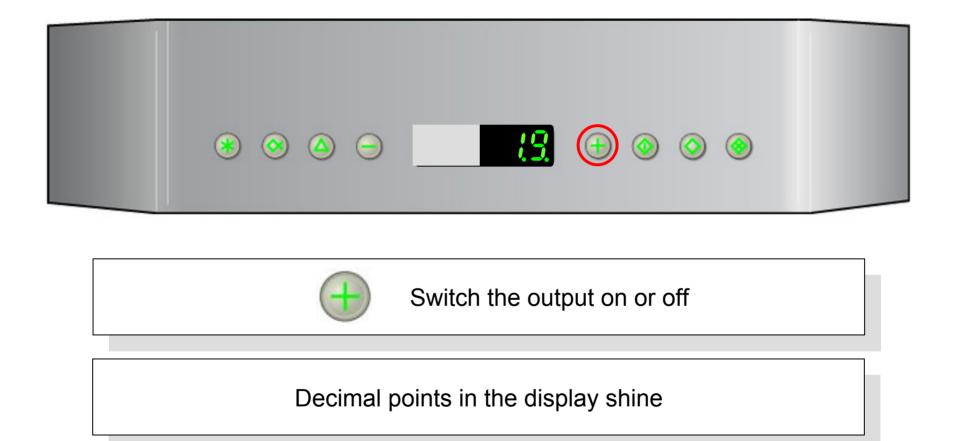








Switch the output on































Output

Output	Function
0	"Cool-fresh" compartment lightFrom Eprom version 5.02"Cool-fresh" compartment and refrigerator compartment light
1	"Cool-fresh" compartment fan
2	Lifting magnet for the air flap in the "cool-fresh" compartment
3	Up to Eprom version 6.01 refrigerator compartment light
4	Refrigerator compartment fan
5	Refrigerator compartment compressor
6	Condenser fan
7	Freezer compartment and ice maker compressor
8	Shut-off valve
9	Freezer compartment fan
10	Freezer compartment heater
11	Freezer compartment light
12	Transformer for ice maker
13	Ice maker heater





























Output

Output	Function
14	Ice rods heater
15	Water trough downwards swivel motor
16	Water trough upwards swivel motor
17	Water inlet valve for ice maker
18	Lifting motor for the water trough
19	Refrigerant solenoid valve Ice maker evaporator is actuated
20	Lifting magnet for crushed ice is actuated Warning! Finger protection is off
21	Drive motor for dispenser spindle Warning! Finger protection is off
22	Water inlet valve for drinking water
23	Waste water pump



















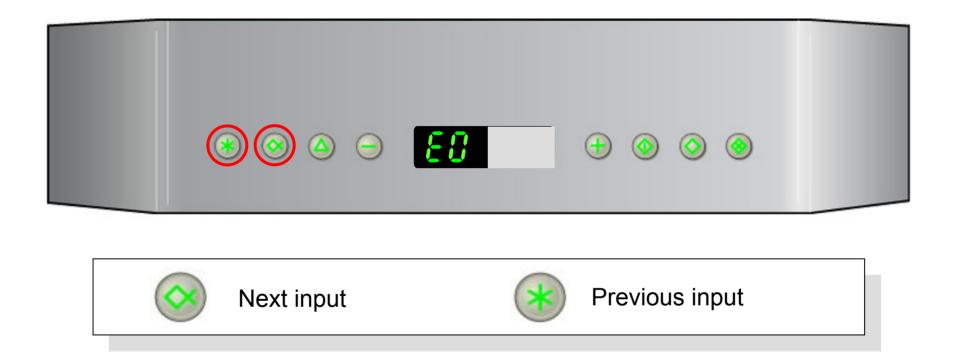








Intputs of the electronics module

































Display of the value



Alternately the position and the value of the selected input is shown





























Inputs

Input	Function	Value
E 0	Compartment sensor, refrigerator compartment	°C
E 1	Evaporator sensor, refrigerator compartment	°C
E 2	Compartment sensor, freezer compartment	°C
E 3	Evaporator sensor, freezer compartment	°C
E 4	Compartment sensor, ice maker	°C
E 5	Compartment temperature	°C
E 6	Evaporator sensor, ice rod	°C
E 7	Compartment sensor, "cool-fresh" compartment	°C
E 8	Switch, drinking water dispenser	0=off, 1=on
E 9	Switch, ice dispenser	0=off, 1=on
E 10	Switch, lower water bowl	0=off, 1=on
E 11	Switch, upper water bowl	0=off, 1=on
E 12	Switch, ice dispenser full	0=off, 1=on
E 13	Door switch, freezer compartment	0=off, 1=on





























Inputs

Input	Function	Value
E 14	Door switch, refrigerator compartment	0=off, 1=on
E 15	Door switch, "cool-fresh" compartment	0=off, 1=on
E 16	Ice electrode	Ω
E 17	Water electrode, ice cube tray	Ω
E 18	Waste water electrode high	Ω
E 19	Waste water electrode low	Ω
E 20	Up to Eprom version 5.02 Safety electrode in the waste water container or on the base of the ice maker From Eprom version 6.01 Safety electrode in the waste water container	Ω
E 21	From Eprom version 6.01 Safety electrode on the base of the ice maker	Ω





























Self-diagnosis programme



Within the first 7 s after switching on the appliance



The component test programme is ended switching off the appliance





















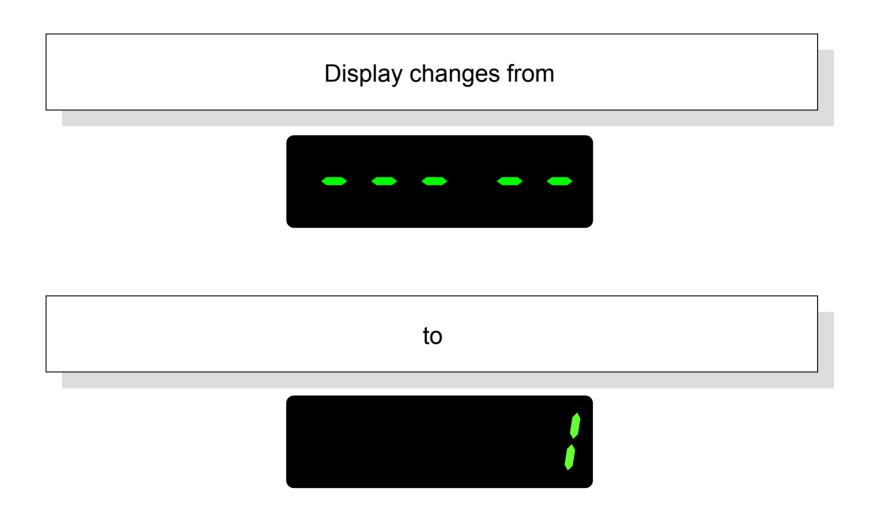








Selecting the self-diagnosis programme





















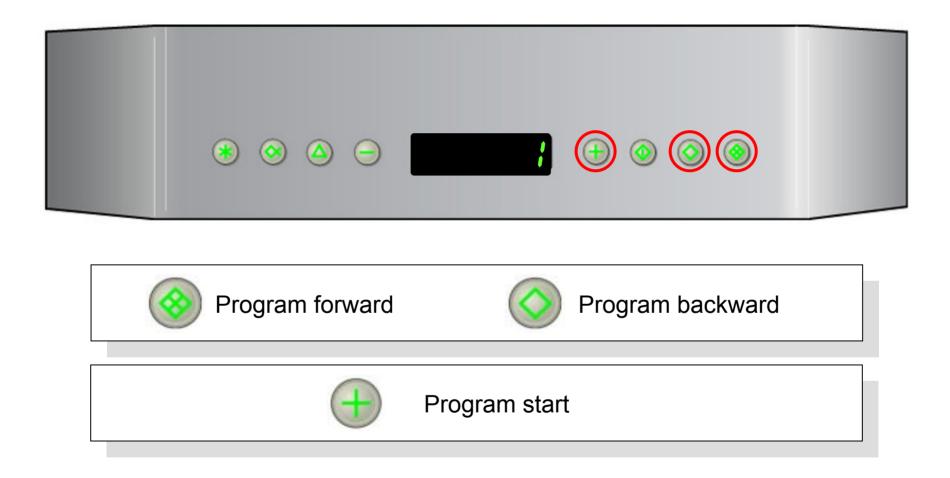








Navigation in the self-diagnosis programme























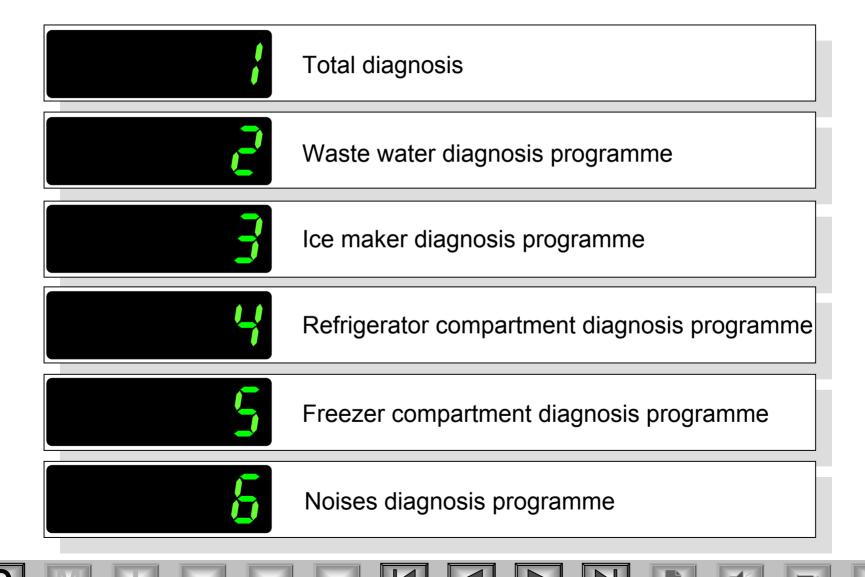




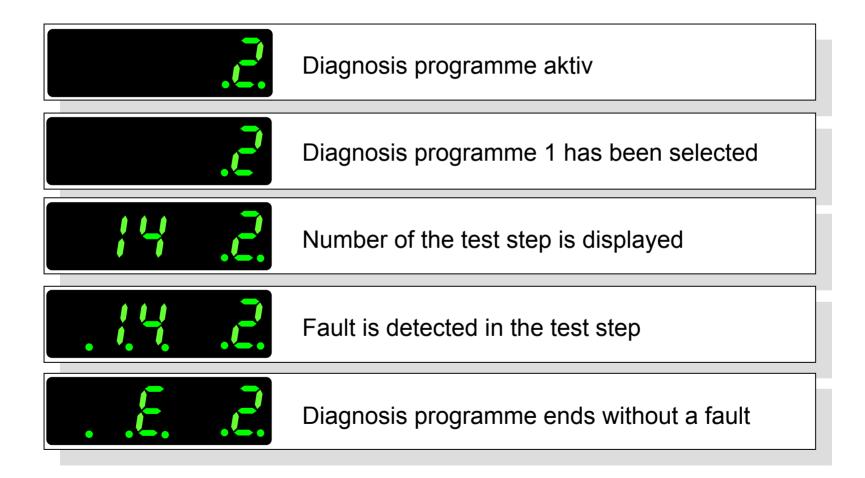




Self-diagnosis programme



Display in the self-diagnosis programme

































Total diagnosis programme



The total diagnosis programme consists of programmes 2 to 5.



























Waste water diagnosis programme



Check all electrodes

Function of the waste water system is examined



























Ice maker diagnosis programme



Check heater for the ice rods

Check electrodes of the water bowl

Check water circuit of the ice maker

Check sensor

Check refridgerant circuit





























Refrigerator compartment diagnosis programme



Check door switch

Check sensor

Check refridgerant circuit



























Freezer compartment diagnosis programme



Check door switch

Check sensor

Check refridgerant circuit



























Noises diagnosis programme



All components are headed for 10s



















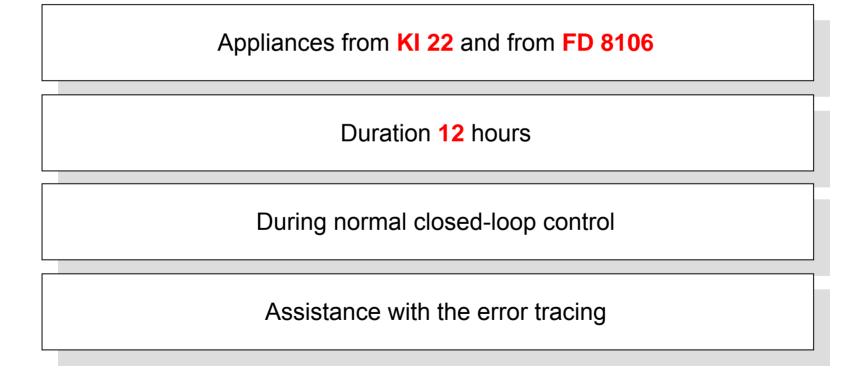








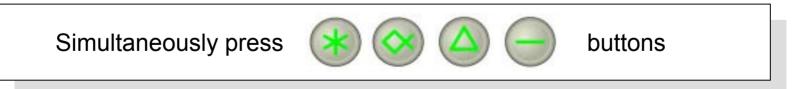
Long-term diagnosis programme



Start long-term diagnosis programme



During normal closed-loop control



The test programme is ended switching off the appliance





















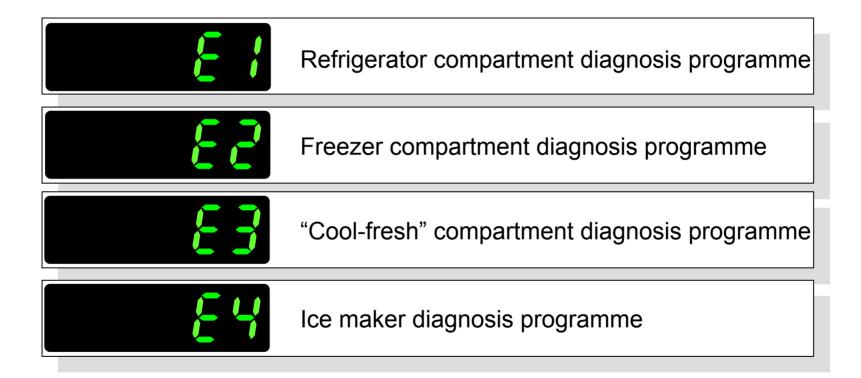








Long-term diagnosis programme























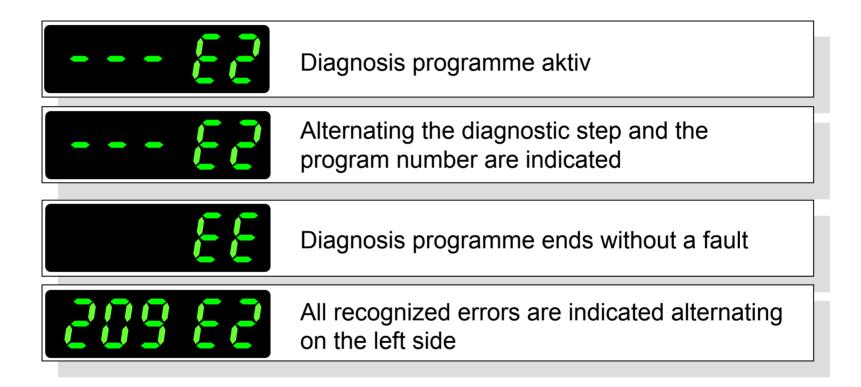








Display in the long-term diagnosis programme



























Non-tested inputs and outputs

Input

Output

- Reed contacts of the door switches
- Limit switch on the water bowl for the height of the ice
- Safety electrode on the water bowl

- Light
- Lifting magnet for crushed ice
- Spindle motor for the ice dispenser
- Water valve for drinking water



























Error displays in the long-term diagnosis programme



The indicated fault should be further tested with the aid of the component test programme.

























Descaling programme

Appliances from KI 22 and Eprom version 6.01

Duration 12 hours

Function of the appliance remains up to the ice preparing



















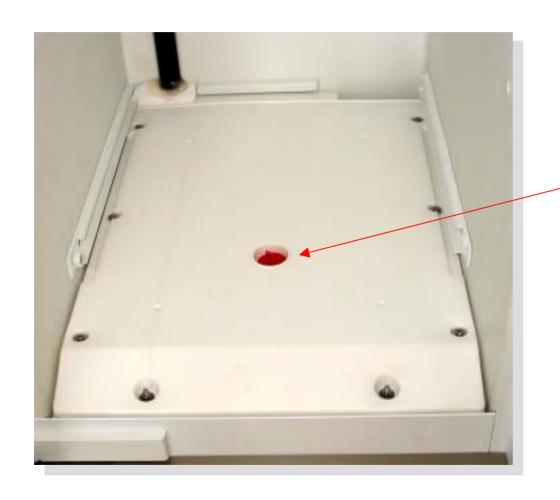








Descaling programme



Descaler,
Material nr. **31 0451**fill in here



























Start the descaling programme



Hold down the one and one button for 5 s



The descaling programme cannot be ended or interrupted





























	,
Date	Changes
01.2000	Main control with Eprom 5.00
01.2000	Main control with Eprom 5.01
01.2000	Shut-off valve not applicable
02.2000	Eprom 5.02 (from 18.01.2000)
03.2000	Vacuum panels not applicable
03.2000	New dust filter
03.2000	Finefilter in the waterinlet (Material nr. 18 1839)
04.2000	New heater in the ice maker compartment
05.2000	New Material for the water bowl
06.2000	New FKF fan with ball bearing
08.2000	New refrigerant valve with sintered filter (Aweco)
09.2000	New transformer for electronics module
10.2000	Ice screw made of stainless steel wire
11.2000	New interference suppressor filter





























Date	Change
04.2001	New waste-water area with overflow tray and new waste-water pump Eprom 6.00
04.2001	Eprom 6.01 (from 24.4.2001)



























Date	Change
09.2001	Water bowl with connecting-rod drive and new cam































Date	Change
10.2001	Ice-maker evaporator with soldered-on ice rods
10.2001	New freezer compartment compressor, Zanussi GQT 80 RSE
04.2002	New condenser fan, max. speed 700 r.p.m.



























Date	Change
02.2003	Coated ice-maker evaporator
	Eprom 6.02 (from 24.4.2003)



















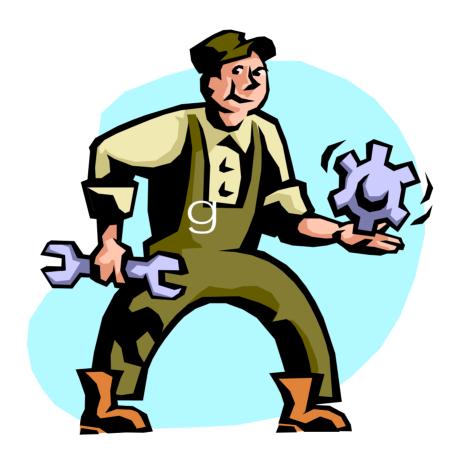








Fault diagnostics



















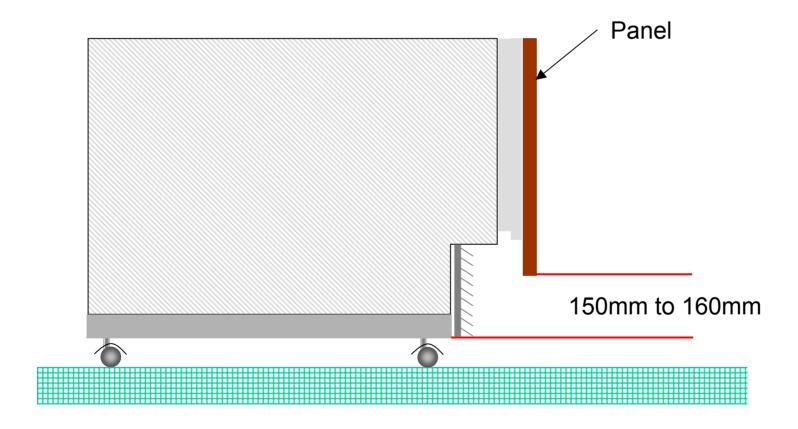








Checking the installation location



















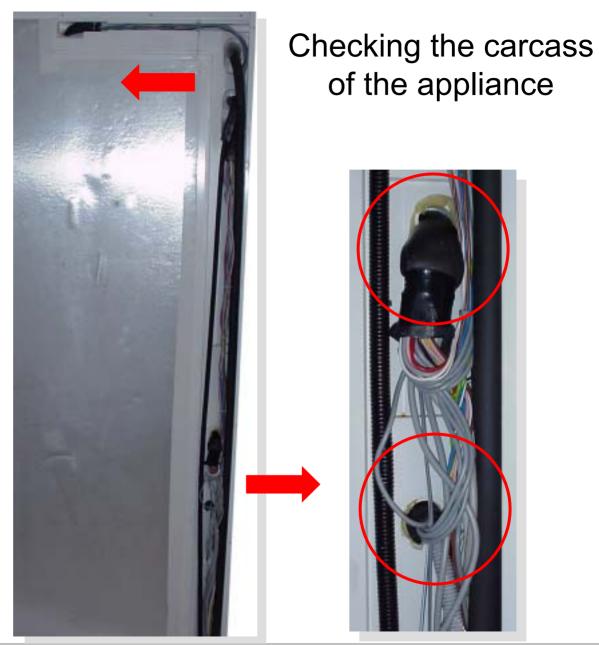










































Checking the condensation outlet

































Checking the condenser fan























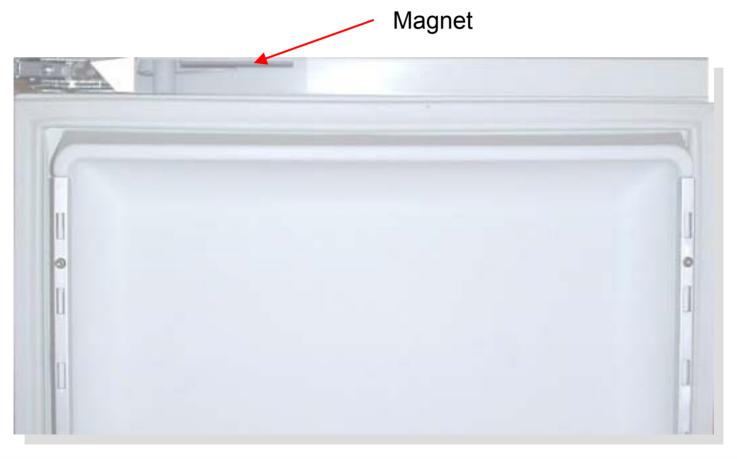








Checking the light



























Checking the sensor

measure the resistance of the sensor

measure the resistance of the sensor at the electronocs





























Check the fan

Switch on the fan with the aid of the component test programme

Check the funktion of the fan





























Checking the fan in the "cool-fresh" compartment





Foam strips



















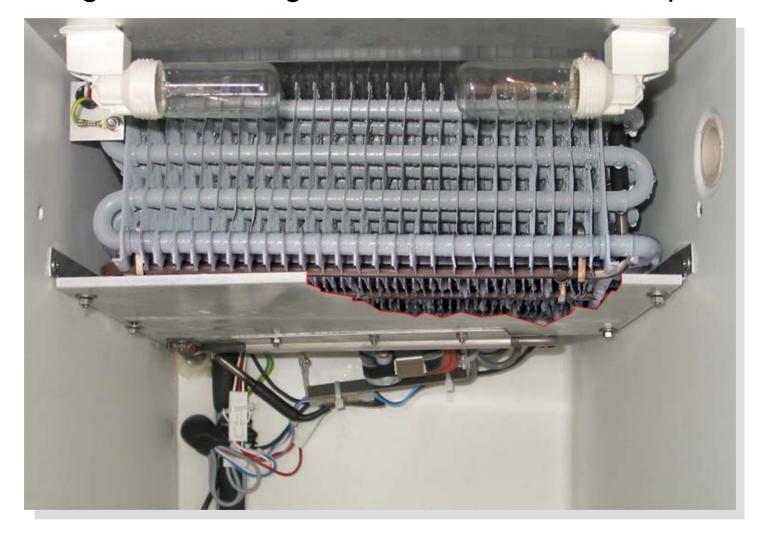








Checking the defrosting heater in the freezer compartment



















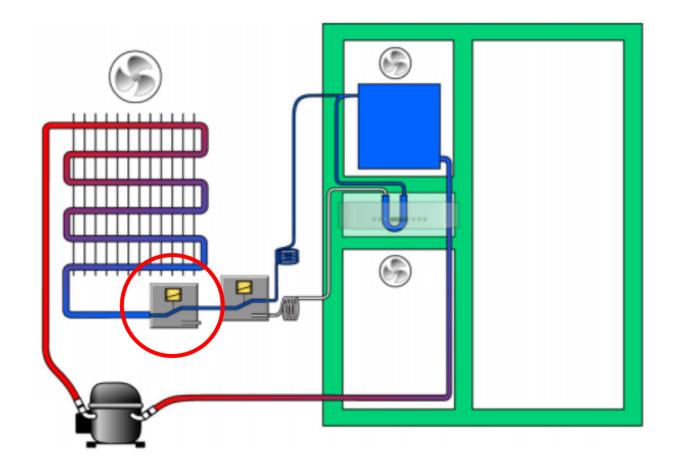








Checking the shut-off valve



















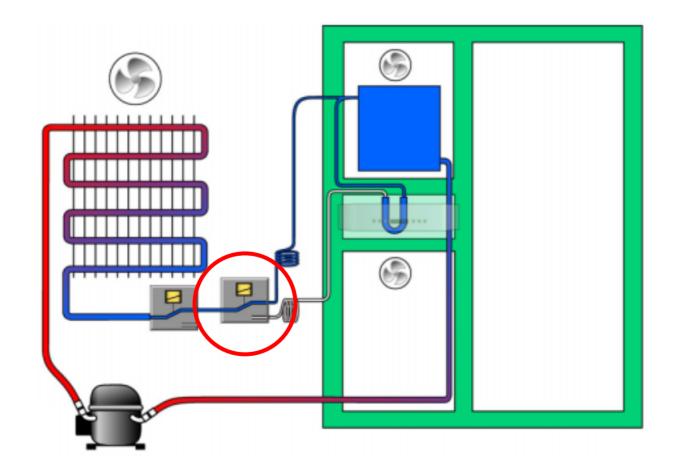








Checking the refrigerant solenoid valve























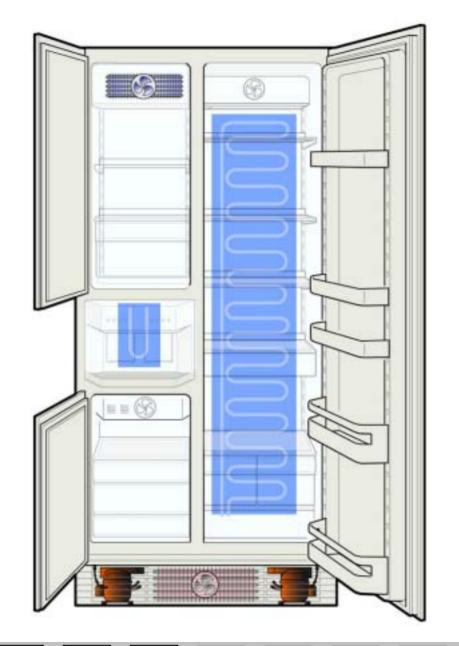






Refrigerant circuit leaking

- Switch on the compressor
- Monitor the evaporator temperature

















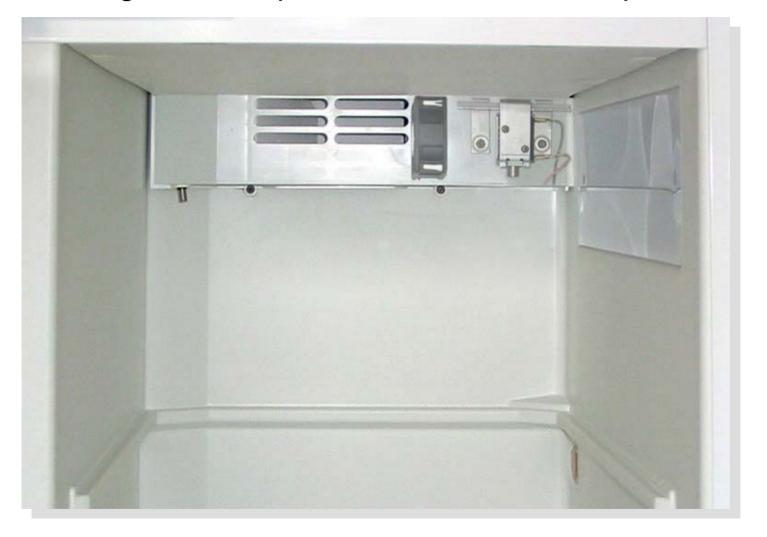








Checking the air flap in the "cool-fresh" compartment



















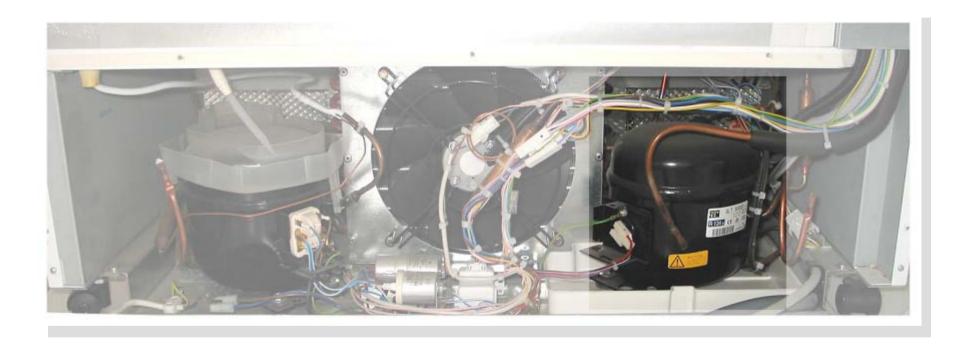








Compressor for the freezer compartment does not run























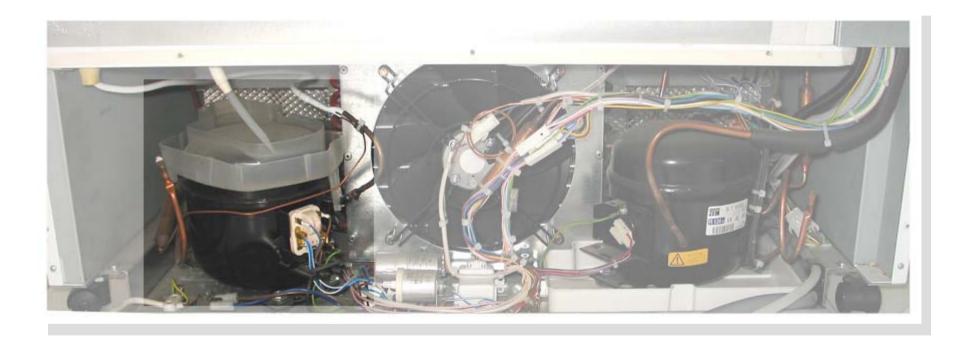








Compressor for the refrigerator compartment does not run































Checking the ice maker

























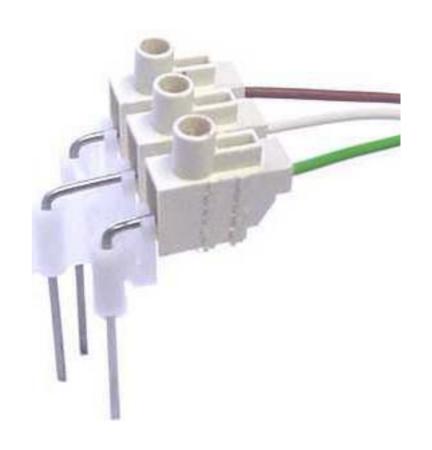






Passivation coating on the electrodes

The electrodes must be free of deposits





























Accumulation of mud in the ice maker

Mud and alga formation under the ice-maker

Sanitation of the appliance





























Sanitation



Garden pump





























