

Operating and installation instructions

Combined fridge-freezer with BioFresh compartment

GB



14/08 **7082678 - 00**

CBN/CBNes ... 6

LIEBHERR

Appliance at a glance

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The manufacturer works constantly on the further development of all the types and models. Therefore please understand that we have to reserve the right to make design, equipment and technical modifications.

To get to know all the benefits of your new appliance, please read the information contained in these instructions carefully.

The instructions apply to several models. Differences may occur. Text relating only to specific appliances is marked with an asterisk (*).

Instructions for action are marked with a ►, the results of action are marked with a ▷.

1 Appliance at a glance

1.1 Range of appliance use

The appliance is designed for refrigerating food, for freezing and storing food and for making ice.

The appliance was designed for household use. It is not intended for commercial use, in particular it is not meant for laboratory purposes and the like. There is the danger of malfunction.

The appliance is set to operate within specific ambient temperature limits according to its climate rating. The correct climate rating for your appliance is indicated on the type plate.

Note

► Compliance with the specified ambient temperatures is required, otherwise the refrigeration performance is reduced.

Climate rating	for ambient temperatures of
SN	10 °C to 32 °C
N	16 °C to 32 °C
ST	16 °C to 38 °C
T	16 °C to 43 °C

1.2 Conformity

The refrigerant circuit has been tested for leaks. The appliance complies with current safety regulations and EC directives 2006/95/EC and 2004/108/EC.

1.3 Description of appliance and equipment

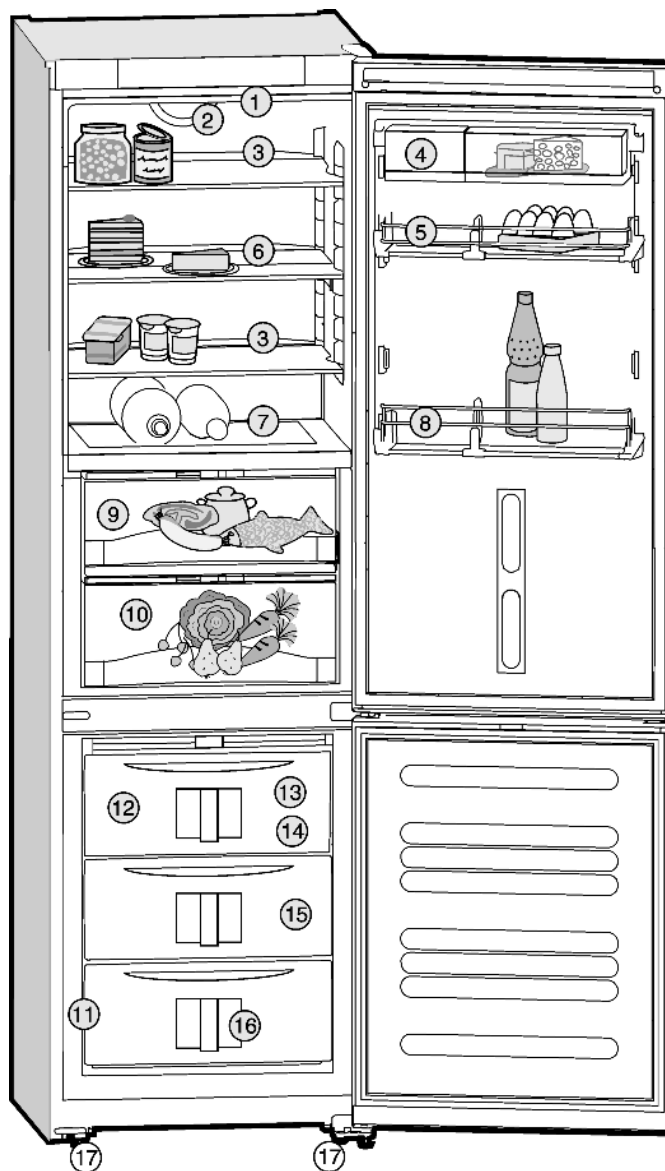


Fig. 1

- | | |
|------------------------------|--------------------------------------|
| (1) Interior light | (10) BioFresh compartment, regulable |
| (2) Fan | (11) Type plate |
| (3) Glass shelf, relocatable | (12) Freezer compartment |

- (4) Box shelves, removable
- (5) Rack for tinned food, re-locatable
- (6) Sectioned glass shelf, relocatable
- (7) Separating plate with bottle shelf
- (8) Bottle rack, relocatable
- (9) BioFresh compartment, regulable
- (13) Freezer tray
- (14) Cold storage accumulators
- (15) VarioSpace
- (16) Information system
- (17) Stellfüße, Transporttragegriffe vorn, Transportrollen hinten

1.4 External dimensions of the appliance

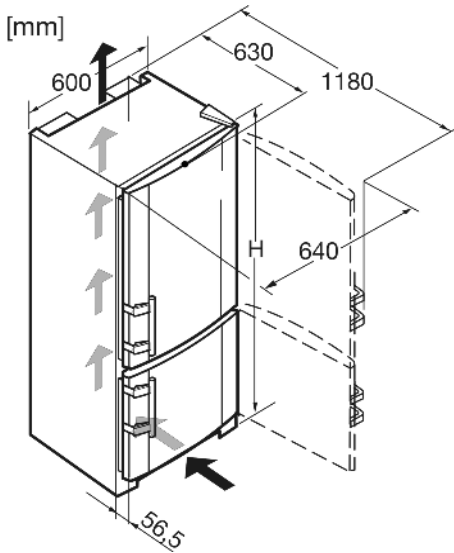


Fig. 2

	H (mm)
CBN 39	2011

1.5 Net@Home

The appliance can be fitted with the retrofit modules for the HomeDialog system or the serial interface (RS 232), depending on model and options. The modules are available from your specialist dealer.

You will find more information on the internet at www.liebherr.com.



2 General safety information

Danger for the user:

- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities or lack of experience and knowledge, unless they are instructed in the use of the appliance and are initially supervised by a person responsible for their safety. Keep children under supervision to ensure they do not play with the appliance.
- In case of a fault, pull out the mains plug (not by pulling the connecting cable) or switch off the fuse.
- Have any repairs to or intervention in the appliance, and any change of the mains power cable, carried out by the customer service only or by other specialised personnel trained for the purpose.
- When disconnecting the appliance from the supply, always take hold of the plug. Do not pull the cable.
- Install and connect the appliance only as instructed.

- Keep these instructions in a safe place and hand them on to any subsequent owner.

Fire hazard:

- The refrigerant R 600a is environmentally friendly but flammable. Escaping refrigerant may ignite.
 - Do not damage the refrigerant circuit pipes.
 - Do not allow naked flames or ignition sources to enter the appliance.
 - Do not use any electrical appliances in the interior (e.g. steam cleaners, heaters, ice cream maker etc.).
 - If refrigerant escapes: clear the vicinity of the leakage from any naked flames or ignition sources. Pull out the plug. Ventilate the area well. Notify customer service.
- Do not store explosives or sprays using combustible propellants such as butane, propane, pentane, etc. in the appliance. Respective spray cans can be identified by reference to the contents printed on the can or by a flame symbol. Gases possibly escaping may ignite due to electrical components.
- Do not place any burning candles, lamps or other items with naked flames on or in the appliance.
- Only store high-percentage alcohol in tightly sealed, upright containers. Alcohol possibly escaping may ignite due to electrical components.

Danger of tipping and falling:

- Do not misuse the plinth, drawers, doors etc. as a step or for support. This applies particularly to children.

Danger of food poisoning:

- Do not consume food which has been stored too long.

Danger of frostbite, numbness and pain:

- Avoid lasting skin contact with cold surfaces or refrigerated/frozen food or take protective steps, e.g. wear gloves. Do not consume ice cream, water ice or ice cubes immediately and do not consume them too cold.

Please observe the specific information in the other sections:

	DANGER	identifies a situation involving direct danger which, if not obviated, may result in death or severe bodily injury.
	WARNING	identifies a dangerous situation which, if not obviated, may result in death or severe bodily injury.
	CAUTION	identifies a dangerous situation which, if not obviated, may result in minor or medium bodily injury.
	NOTICE	identifies a dangerous situation which, if not obviated, may result in damage to property.
	Note	identifies useful information and tips.

Controls and displays

3 Controls and displays

3.1 Operating and control elements

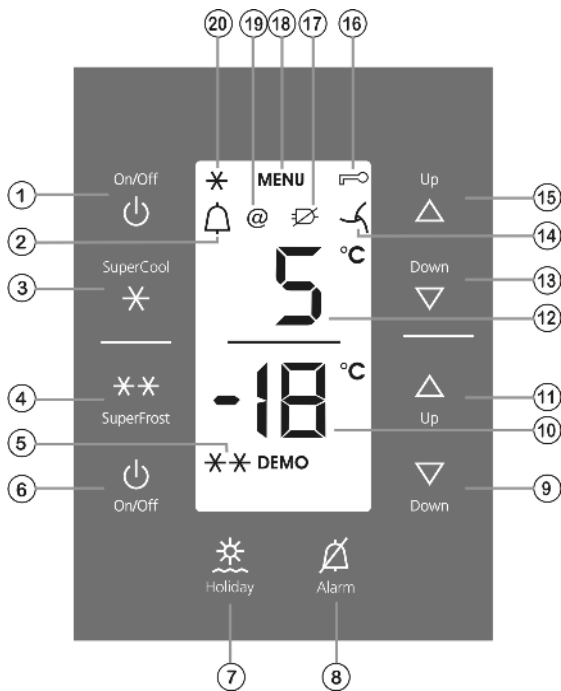


Fig. 3

- | | |
|--|--|
| (1) On/Off button, refrigerator compartment | (11) Up setting button, freezer compartment |
| (2) Alarm symbol | (12) Refrigerator compartment temperature display |
| (3) SuperCool button | (13) Down setting button, refrigerator compartment |
| (4) SuperFrost button | (14) Fan symbol |
| (5) SuperFrost symbol | (15) Up setting button, refrigerator compartment |
| (6) On/Off button, freezer compartment | (16) Child-proofing symbol |
| (7) Holiday button | (17) Power failure symbol |
| (8) Alarm button | (18) Menu symbol |
| (9) Down setting button, freezer compartment | (19) Net@Home symbol |
| (10) Freezer compartment temperature display | (20) SuperCool symbol |

3.2 Temperature display

The following are displayed in normal operation:

- the highest freezer temperature
- the average refrigerator compartment temperature


The freezer compartment temperature display flashes:

- the temperature setting is changed
- after switch-on the temperature is not yet cold enough
- the temperature has risen several degrees

Dashes flash in the display:

- the freezer temperature is above 0 °C.

The following displays indicate malfunction. You will find possible causes and corrective action in the section on malfunction.

- F0 to F9
- FE
- The power failure symbol  shines.

4 Putting into operation

4.1 Changing over the door hinges

You can change over the door hinges if necessary. Ensure that the following tools are to hand:

- Torx 25
- Torx 15
- Screwdriver
- Cordless screwdriver, if necessary
- Second person for fitting work, if needed

4.1.1 Undo the cable connection on the housing.

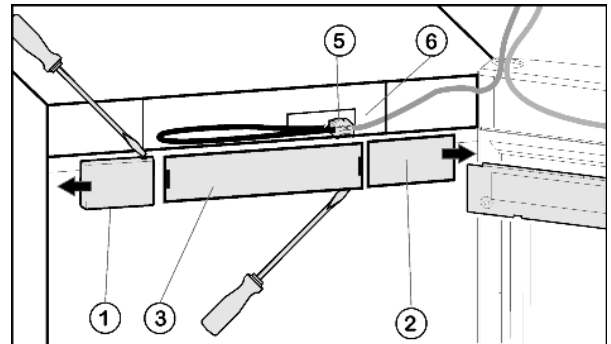


Fig. 4

- ▶ Open the upper door.
- ▶ To remove cover on the handle side Fig. 4 (1): disengage on the right using a flat-blade screwdriver and push it out.
- ▶ To remove cover on the hinge side Fig. 4 (2): disengage on the left using a flat-blade screwdriver and push it out.
- ▶ Remove the front panel Fig. 4 (3) using a flat-blade screwdriver.
- ▶ Remove contact and disconnect plug connector Fig. 4 (5).
- ▶ Detach grey cable Fig. 4 (6) from the guide.

4.1.2 Detaching the upper door

Note

- ▶ Remove any food from the door racks before removing the door, so that no food falls out.

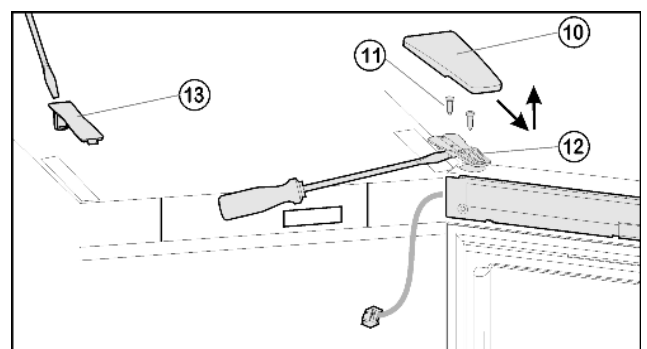


Fig. 5

- ▶ Pull off the cover Fig. 5 (10) forwards and remove cover Fig. 5 (13).
- ▶ Undo the screws Fig. 5 (11).



CAUTION

- Risk of injury if the door tips!
- ▶ Take good hold of the door.
 - ▶ Set down the door carefully.

- ▶ Lift and remove the door complete with turn hinge *Fig. 5 (12)* and cable. For release, possibly use a flat-blade screwdriver to apply lever action under the turn hinge.
- ▶ Set the door aside.

4.1.3 Detaching the lower door

- ▶ Close the lower door.
- ▶ Draw the middle bearing pin *Fig. 6 (21)* out of the turn hinge and lower door.
- ▶ Remove the plastic cap *Fig. 6 (20)*.



CAUTION

Risk of injury if the door tips!

- ▶ Take good hold of the door.
- ▶ Set down the door carefully.

- ▶ Open the door.
- ▶ Detach the middle turn hinge *Fig. 6 (22)*.
- ▶ Lift off the lower door and set it aside.

4.1.4 Transferring the middle bearing elements

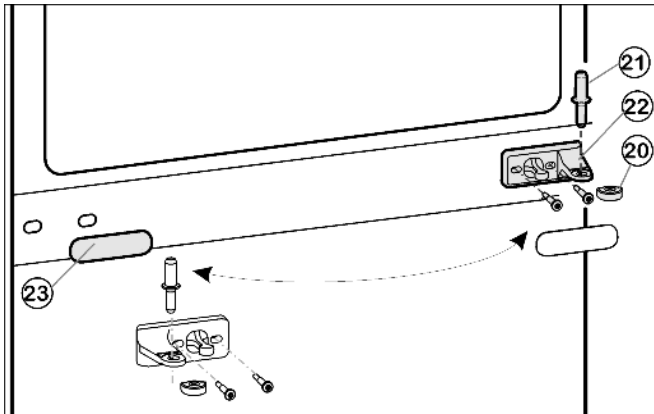


Fig. 6

- ▶ Carefully detach the cover panel *Fig. 6 (23)*.
- ▶ Turn the middle turn hinge *Fig. 6 (22)* 180° and transfer it to the new hinge side.
- ▶ Snap the cover panel *Fig. 6 (23)* into place on the new handle side.

4.1.5 Transferring the lower bearing elements

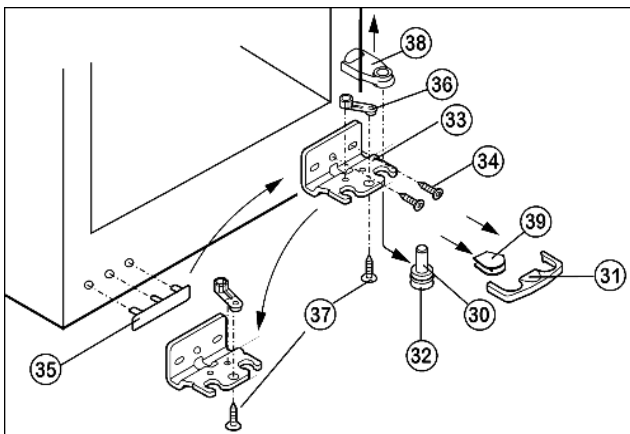


Fig. 7

- ▶ Pull off the lower cover *Fig. 7 (31)* forwards.
- ▶ Remove lower cover *Fig. 7 (39)*.*
- ▶ Raise the cover *Fig. 7 (38)* for removal.*
- ▶ Turn the adjustable-height foot *Fig. 7 (32)* all the way in.
- ▶ If necessary, tip the appliance back a little with the assistance of a second person for removal of the bearing pin.

- ▶ Pull out the bearing pin *Fig. 7 (32)* downwards and forwards. In so doing, pay attention to the hinge bush *Fig. 7 (30)*.
- ▶ Unscrew the turn hinge *Fig. 7 (33)*(2 Torx 25) *Fig. 7 (34)*.
- ▶ Unscrew the bearing part *Fig. 7 (36)*(1 Torx 25), *Fig. 7 (37)* transfer it to the opposite hole in the turn hinge and screw it down again.
- ▶ Carefully lift off and transfer the cover *Fig. 7 (35)* on the handle side.
- ▶ Screw down the turn hinge *Fig. 7 (33)* on the new hinge side, possibly with the aid of a cordless screwdriver, through the outer oblong hole and round hole.

Note

- ▶ If necessary, e.g. to make up for any unevenness in the floor, the second oblong hole can be used instead of the round hole for the screw fitting.

- ▶ Tip the appliance back a little again and transfer the bearing pin *Fig. 7 (32)*.

4.1.6 Transferring the handles

- ▶ Disengage the spring clip *Fig. 8 (41)* from the upper door and transfer it to the new hinge side.
- ▶ Lift the stopper *Fig. 8 (40)* out of the lower door bearing bush and transfer it.

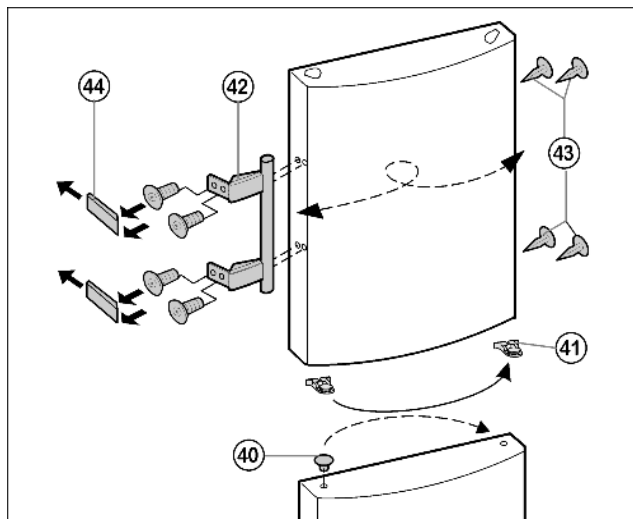


Fig. 8

- ▶ Detach the door handles *Fig. 8 (42)*, stoppers *Fig. 8 (43)* and pressure plates *Fig. 8 (44)* and transfer to the opposite side.
- ▶ When fitting the pressure plates at the opposite side, pay attention that they engage properly.

4.1.7 Fitting the lower door

- ▶ Place the door from above onto the bearing pin *Fig. 7 (32)*.
- ▶ Close the door.
- ▶ Insert middle bearing pin *Fig. 6 (21)* through middle turn hinge *Fig. 6 (22)* into the lower door.
- ▶ Attach plastic cap *Fig. 6 (20)*.

Putting into operation

4.1.8 Transferring the cable connection (upper door)

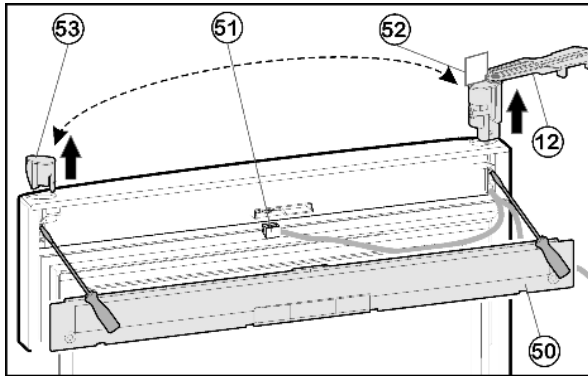


Fig. 9

- ▶ Using a screwdriver, remove the cover Fig. 9 (50) on the door.
- ▶ Disconnect the plug connector Fig. 9 (51).
- ▶ At the upper door, rotate the turn hinge Fig. 9 (12) in an outward direction, parallel to the door edge.

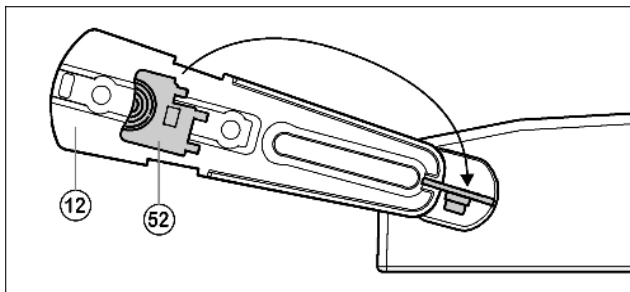


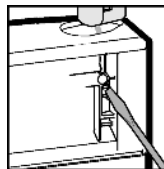
Fig. 10

ATTENTION

Cables may be twisted and damaged as a result!

- ▶ Use the template.

- ▶ Detach the supplied template Fig. 10 (52) from the turn hinge and use it to prevent the turn hinge Fig. 10 (12) and bush from turning.
- ▶ Using a screwdriver, push out the turn hinge Fig. 9 (12) from underneath and remove it from the door complete with cable.
- ▶ Using a screwdriver, push out the stopper Fig. 9 (53) from underneath and transfer it to the opposite side.



- ▶ Feed in the cable of the turn hinge Fig. 9 (12) at the opposite side and insert turn hinge.
- ▶ Remove the template Fig. 9 (52) and fasten it in the turn hinge.
- ▶ Plug in the plug Fig. 9 (51).
- ▶ Place the cable in the guide.
- ▶ Engage the cover Fig. 9 (50) on the door.

4.1.9 Fitting the upper door

- ▶ Place the upper door on the middle bearing pin Fig. 6 (21), close the door and attach the upper turn hinge Fig. 5 (12) so that it engages with the upper side of the appliance.
- ▶ Screw down the turn hinge Fig. 5 (12). Possibly make preliminary holes with a bradawl or use a cordless screwdriver.
- ▶ Snap on the cover Fig. 5 (10) and cover Fig. 5 (13).
- ▶ Re-connect the plug connector Fig. 4 (5).
- ▶ Place the cable in the guide.
- ▶ Re-fit the cover Fig. 4 (3).
- ▶ Turn the cover Fig. 4 (2) 180°, attach and engage it on the hinge side.
- ▶ Turn the cover Fig. 4 (1) 180°, attach and engage it on the handle side.

4.1.10 Aligning the doors

- ▶ If necessary, align the doors to the appliance housing by way of the two oblong holes in the lower turn hinge Fig. 7 (33) and middle turn hinge Fig. 6 (22), then tighten the screws.
- ▶ Engage the cover Fig. 7 (31) on the lower turn hinge.

4.2 Insertion into a row of kitchen units

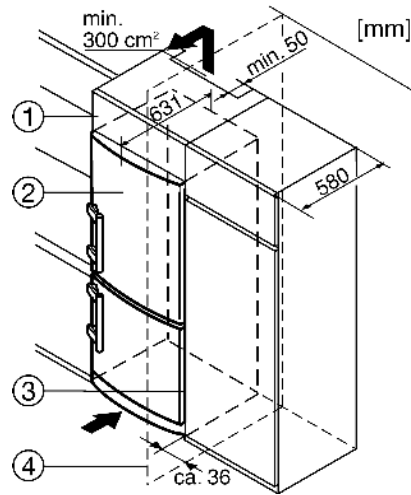


Fig. 11

- (1) Stack cabinet
- (2) Appliance
- (3) Kitchen cabinet
- (4) Wall

The appliance can be inserted into the kitchen units. To match the appliance Fig. 11 (2) to the height of the row of units, a suitable stack cabinet Fig. 11 (1) can be fitted above the appliance.

For use with standard kitchen cabinets (max. depth 580 mm) the appliance can be installed directly next to the kitchen cabinet Fig. 11 (3). The appliance door projects 34 mm laterally and 50 mm in the middle of the appliance relative to the front of the kitchen cabinet. It can be opened and closed perfectly as a result. Important for the ventilation:

- At the back of the stack cabinet there has to be a ventilation duct of at least 50 mm depth throughout the width of the stack cabinet.
- The ventilation cross section under the ceiling has to be at least 300 cm².
- The larger the ventilation gap, the greater the energy-saving benefit in operation of the appliance.

If the appliance is installed with the hinges next to a wall Fig. 11 (4), the distance between appliance and wall has to be at least 36 mm. This corresponds to the projection of the handle when the door is open.

4.3 Transporting the appliance



CAUTION

Risk of injury and danger of damage as a result of incorrect transport!

- ▶ Transport the appliance in a packed condition.
- ▶ Transport the appliance upright.
- ▶ Do not transport the appliance without assistance.

4.4 Installing the appliance

In the event that the appliance is damaged, contact the supplier immediately before connecting to the mains.

The floor of the installation site must be level and smooth.

Do not install the appliance in a location where it is exposed to direct radiation of the sun, next to a cooker, heater and similar.

Always install the appliance directly against the wall.

Do not install the appliance without assistance.

According to the EN 378 standard, the room in which your appliance is installed must have a volume of 1 m³ per 8 g of R 600a refrigerant. If the room in which the appliance is installed is too small, a flammable gas-air mixture may form in the event of a leakage in the refrigeration circuit. The quantity of refrigerant used in your appliance is indicated on the type plate on the inside of the appliance.

- ▶ Always see to good ventilation at the installation site.

4.5 Disposing of packaging



WARNING

Fire hazard due to dampness!

If live parts or the mains lead become damp this may cause short circuits.

- ▶ The appliance is designed for use in enclosed areas. Do not operate the appliance outdoors or in areas where it is exposed to splash water or damp conditions.



WARNING

Fire hazard due to refrigerant!

The refrigerant R 600a is environmentally friendly but flammable. Escaping refrigerant may ignite.

- ▶ Do not damage the pipes of the refrigeration circuit.



WARNING

Fire hazard and danger of damage!

- ▶ Do not place appliances emitting heat e.g. microwaves, toasters etc. on the appliance!



WARNING

Fire hazard and risk of damage due to blocked ventilation grille!

- ▶ Always keep the ventilation grille free. Always ensure that the appliance is properly ventilated.

- ▶ Detach the connecting cable from the rear of the appliance, removing the cable holder because otherwise there will be vibratory noise!

After installation:

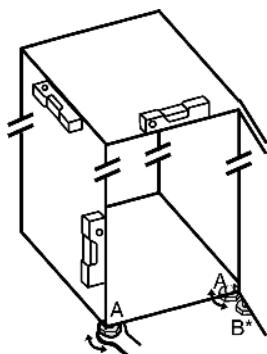
- ▶ Remove the protective film from the outside of the appliance.*
- ▶ Apply the stainless steel care product evenly in the direction of the grain.*
- ▷ Subsequent cleaning becomes easier as a result.*
- ▶ Remove the protective film from the decorative trims.
- ▶ Remove all transit supports.
- ▶ Dispose of packaging material. See section on packaging disposal.

ATTENTION

Risk of damage due to condensate!

- ▶ Do not install the appliance directly alongside a further refrigerator/freezer.

- ▶ Level the appliance so its stands firm with the aid of a spirit level by applying the accompanying spanner to the adjustable feet (A).
- ▶ Afterwards support the door: extend the adjustable foot at the turn hinge (B) until it rests on the floor, then turn a further 90 degrees.



If the appliance is installed in a very damp environment, condensate may form on the outside of the appliance.



WARNING

Danger of suffocation due to packing material and plastic film!

- ▶ Do not allow children to play with packing material.

The packaging is made of recyclable materials:

- corrugated board/board
- EPS moulded parts
- polythene bags and sheets
- polypropylene straps



- ▶ Take the packaging material to an official collecting point.

4.6 Connecting the appliance

ATTENTION

Risk of damage to the electronic control system!

- ▶ Do not use a stand-alone inverter (DC/AC conversion) or energy-saving plug.



WARNING

Fire and overheating hazard!

- ▶ Do not use an extension cable or multiple socket outlet.

The type of current (alternating current) and voltage at the site of installation must conform with the data on the type plate (see section relating to the description of appliance and equipment). Connect the appliance only with a properly installed socket outlet with earthing contact. The socket outlet must be fused with 10 A or higher.



It must be easily accessible so that the appliance can be quickly disconnected from the supply in an emergency.

- ▶ Check electrical connection.
- ▶ Clean the appliance. For details, see the section on cleaning.
- ▶ Plug in the power plug.

4.7 Switching on the appliance

Note

- ▶ To switch on the entire appliance it is necessary only to switch on the freezer compartment.

Note

- ▶ After switch-on, first the freezer compartment is cooled and after some time the refrigerator compartment.

Put the appliance into operation about 2 hours before first loading food to be frozen.

Do not load food to be frozen before the temperature display reads -18 °C.

4.7.1 Switching on the freezer compartment

- ▶ Press On/Off button, freezer compartment *Fig. 3 (6)*.
- ▷ The refrigerator compartment temperature display indicates the set temperature.
- ▷ The freezer compartment temperature display and the alarm button flash until the temperature is sufficiently cold. If the temperature is above 0 °C, dashes flash. If it is below, the current temperature flashes.

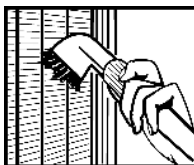
5 Control

5.1 Saving energy

- ▶ Always make sure there is good ventilation.
- ▶ Keep the time the appliance is open to a minimum.
- ▶ Store food logically.
- ▶ Allow warm food to cool to room temperature before placing it inside.
- ▶ Defrost frozen food in the refrigerator.

Accumulated dust increases the energy consumption:

- ▶ Dust the refrigerating unit with the heat exchanger - metal grille at the back of the appliance - once a year.



5.2 Brightness of the temperature display

You can adjust the brightness of the temperature display to the light conditions of the room in which the appliance is installed.

5.2.1 Adjusting the brightness

The brightness is adjustable between **h0** (no illumination) and **h5** (maximum luminosity).

- ▶ To activate the setting mode: press the SuperFrost button *Fig. 3 (4)* for about 5 s.
- ▷ The display indicates **c**.
- ▷ The menu symbol *Fig. 3 (18)* shines.
- ▶ Using the Up setting button, freezer compartment *Fig. 3 (11)* or Down setting button, freezer compartment *Fig. 3 (9)* select **h**.
- ▶ To confirm: briefly press the SuperFrost button *Fig. 3 (4)*.
- ▶ To set the display brighter: press the Up setting button, freezer compartment *Fig. 3 (11)*.
- ▶ To set the display darker: press the Down setting button, freezer compartment *Fig. 3 (9)*.
- ▶ To confirm: press the SuperFrost button *Fig. 3 (4)*.
- ▷ The brightness is adjusted to the new value.
- ▶ To deactivate the setting mode: press the On/Off button, freezer compartment *Fig. 3 (6)*.



-or-

- ▶ Wait for 5 minutes.
- ▷ The temperature is indicated again in the temperature display.

5.3 Child proofing

The child-proofing function enables you to make sure that the appliance is not inadvertently switched off by playing children.

5.3.1 Setting the child-proofing function

- ▶ To activate the setting mode: press the SuperFrost button *Fig. 3 (4)* for about 5 s.
- ▷ The display indicates **c**.
- ▷ The menu symbol *Fig. 3 (18)* shines.
- ▶ Briefly press the SuperFrost button *Fig. 3 (4)* to confirm.
- ▶ To switch on: using the Up setting button, freezer compartment *Fig. 3 (11)* or Down setting button, freezer compartment, *Fig. 3 (9)* select **c1**.
- ▶ To switch off: using the Up setting button, freezer compartment *Fig. 3 (11)* or Down setting button, freezer compartment, *Fig. 3 (9)* select **c0**.



- ▶ To confirm: press the SuperFrost button *Fig. 3 (4)*.
- ▷ The child-proofing function is switched on when the child-proofing symbol *Fig. 3 (16)* shines.
- ▶ To deactivate the setting mode: press the On/Off button, freezer compartment *Fig. 3 (6)*.
- or-
- ▶ Wait for 5 minutes.
- ▷ The temperature is indicated again in the temperature display.

5.4 Holiday mode

The holiday mode saves energy and prevents odour from occurring when the door of the refrigerator compartment stays closed for a lengthy period.

The freezer compartment remains in operation in the holiday mode.

5.4.1 Activating the holiday mode

- ▶ Remove all the food from the refrigerator compartment.
- ▶ Press the holiday button *Fig. 3 (7)* for 3 sec.



- ▷ The holiday mode is activated. The display indicates **Ho**.

5.4.2 Deactivating the holiday mode

- ▶ Briefly press the holiday button *Fig. 3 (7)*.
- ▷ The holiday mode is deactivated.
- ▷ The current cooling temperature is indicated in the display.

5.5 Door alarm

For refrigerator/BioFresh compartment and freezer compartment

If the door is open longer than 60 s, the audible alarm sounds.

The audible alarm is automatically silenced when the door is closed.

5.5.1 Muting the door alarm

The audible alarm can be muted when the door is open. The sound switch-off function is active as long as the door is left open. When the door is closed, the alarm function is active again.

- ▶ Press alarm button *Fig. 3 (8)*.

5.6 Temperature alarm

The audible alarm sounds if the freezer temperature is not cold enough.

The temperature display and the alarm symbol *Fig. 3 (2)* flash at the same time.

The cause of the temperature being too high may be:

- warm fresh food was placed inside
- too much warm ambient air flowed in when rearranging and removing food
- power failure for some time
- the appliance is faulty

The audible alarm is automatically silenced, the alarm symbol *Fig. 3 (2)* goes out and the temperature display stops flashing when the temperature is sufficiently cold again.

If the alarm status persists, proceed according to the section on troubleshooting.

Note

Food may be spoiled if the temperature is not cold enough.

- ▶ Check the quality of the food. Do not consume spoiled food.

5.6.1 Muting the temperature alarm

The audible alarm can be muted. When the temperature is sufficiently cold again, the alarm function is active again.

- ▶ Press alarm button *Fig. 3 (8)*.
- ▷ The audible alarm is silenced.

5.7 Refrigerator compartment

The natural circulation of air in the refrigerator compartment results in zones differing in temperature. It is coldest directly above the plate separating off the BioFresh zone and at the rear wall. It is warmest at the top front of the compartment and in the door.

5.7.1 Food refrigeration

Note

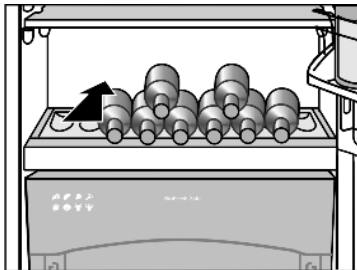
The energy consumption increases and the cooling performance decreases if the ventilation is insufficient.

- ▶ Always keep the air slits of the fan free.

- ▶ Store bakery products, dairy products, meat or mincemeat in the coldest zone. Place butter, eggs and preserves in the upper area and in the door. (see also the section on the appliance at a glance)
- ▶ Use recyclable plastic, metal, aluminium and glass containers and cling film for wrapping.
- ▶ Use the front floor area of the refrigerator compartment only to temporarily set food down, e.g. when rearranging or sorting the contents. Do not leave food there as it may be pushed back or tipped over when the door is closed.
- ▶ Do not store food too close together to enable good air circulation.
- ▶ To ensure the bottles do not tip over: move the bottle holder.

At the base of the refrigerator compartment, the integrated bottle shelf or alternatively the glass shelf can be used:

- ▶ Using the bottle shelf: store the glass shelf under the bottle shelf to save space.
- ▶ Place the bottles with the base pointing backwards facing the rear wall. If the bottles project beyond the bottle shelf:
- ▶ set the lower door rack one position higher.



5.7.2 Setting the temperature in the refrigerator compartment

The temperature can be set from 9 °C to 4 °C, the recommended temperature is 5 °C.

- ▶ To set the temperature warmer: press the Up setting button, refrigerator compartment *Fig. 3 (15)*.
- ▶ To set the temperature colder: press the Down setting button, refrigerator compartment *Fig. 3 (13)*.
- ▷ When the button is pressed the first time, the previous value is indicated in the temperature display, refrigerator compartment.
- ▶ To change the temperature in 1 °C steps: briefly press the button.
- ▶ To change the temperature continuously: hold down the button.
- ▷ The value is displayed flashing during the setting operation.
- ▷ The actual temperature is displayed about 5 s after the last press of a button. The temperature slowly adjusts to the new value.

5.7.3 SuperCool

With SuperCool you switch to the highest refrigerating performance to reach lower cooling temperatures. Use SuperCool to

rapidly cool large amounts of food. When SuperCool is activated, the fan runs.

The SuperCool function uses slightly more energy.

Cooling with SuperCool

- ▶ Briefly press SuperCool button *Fig. 3 (3)*.
- ▷ The SuperCool symbol *Fig. 3 (20)* lights up in the display.
- ▷ The cooling temperature drops to its lowest value. SuperCool is activated.
- ▷ SuperCool is automatically deactivated after about 6 h. The appliance continues to operate in the energy-saving, normal mode.

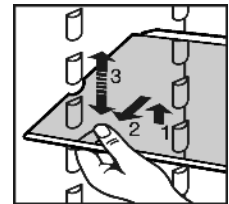
To prematurely deactivate SuperCool

- ▶ Briefly press SuperCool button *Fig. 3 (3)*.
- ▷ The SuperCool symbol *Fig. 3 (20)* goes out in the display.
- ▷ SuperCool is deactivated.

5.7.4 Relocating the shelves

The shelves have stops preventing them from being unintentionally pulled out.

- ▶ Lift the shelf and draw it out forwards.



- ▶ Insert shelf with the raised edge pointing upwards at the back.
- ▷ The food does not freeze onto the rear wall.

5.7.5 Using sectioned shelf

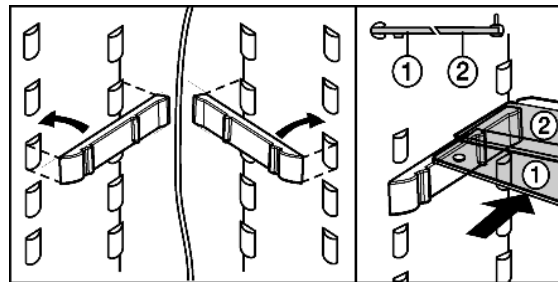
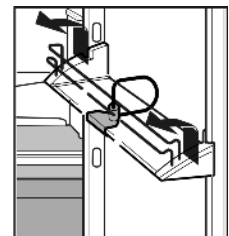


Fig. 12

- ▶ The glass shelf with raised edge (2) has to be at the back.
- ▶ For cleaning, remove the support rails for the glass shelf halves.

5.7.6 Moving the storage rack

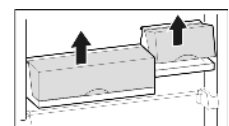
- ▶ Remove storage rack according to illustration.



The boxes can be removed and placed on the table as a single unit.

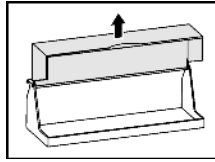
Only one box or both boxes can be used. If particularly tall bottles are to be stored, attach only the wide box above the bottle rack. Three small boxes are available through the customer service as optional equipment instead of one wide and one small box.

- ▶ Re-positioning the boxes: Lift them for removal and re-position them as required.



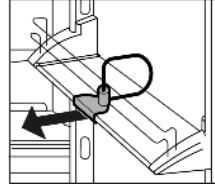
Control

- ▶ To detach lid: Open 90° and raise to disengage.



5.7.7 Removing the bottle holder

- ▶ Always take hold of the bottle holder on the plastic part.



5.8 BioFresh compartment

The BioFresh compartment allows some types of fresh food to be stored up to three times longer than in conventional refrigerators, without compromising quality.

For food with an indicated best before date, the date specified on the packaging always applies.

5.8.1 HydroSafe

The HydroSafe at the moist setting is suited for storing unwrapped salad, vegetables and fruit with high inherent moisture. When the drawer is well filled, a dewy climate with up to 90% humidity is established. The humidity in the compartment depends on the moisture content of the food stored and on the opening frequency. You can set the humidity yourself.

5.8.2 Storing food

Note

- ▶ No vegetables sensitive to cold, such as cucumbers, aubergines, semi-ripe tomatoes and courgettes, or any tropical fruits sensitive to cold belong in the BioFresh compartment.
- ▶ Store unwrapped plant and animal products separately in the drawers to prevent spoilage due to the transfer of germs. This also applies to different sorts of meat.
If food has to be stored together due to lack of space:
 - ▶ wrap the food.

5.8.3 Storage times

Standard values for storage time at low humidity			
Butter	up to	90	days
Hard cheese	up to	110	days
Milk	up to	12	days
Sausage, cold meat	up to	9	days
Poultry	up to	6	days
Pork	up to	7	days
Beef	up to	7	days
Game	up to	7	days

Note

- ▶ Please note that protein-rich food deteriorates faster, i.e. shellfish and crustaceans deteriorate faster than fish and fish faster than meat.

Standard values for storage time at high humidity
Vegetables, salad

Standard values for storage time at high humidity			
Artichokes	up to	14	days
Celery	up to	28	days
Cauliflower	up to	21	days
Broccoli	up to	13	days
Chicory	up to	27	days
Lamb's lettuce	up to	20	days
Peas	up to	14	days
Kale	up to	14	days
Carrots	up to	80	days
Garlic	up to	160	days
Kohlrabi	up to	55	days
Lettuce	up to	13	days
Herbs	up to	13	days
Leek	up to	29	days
Mushrooms	up to	7	days
Radishes	up to	10	days
Brussels sprouts	up to	20	days
Asparagus	up to	18	days
Spinach	up to	13	days
Savoy cabbage	up to	20	days
Fruit			
Apricots	up to	13	days
Apples	up to	80	days
Pears	up to	55	days
Blackberries	up to	3	days
Dates	up to	180	days
Strawberries	up to	7	days
Figs	up to	7	days
Blueberries	up to	9	days
Raspberries	up to	3	days
Currants	up to	7	days
Sweet cherries	up to	14	days
Kiwis	up to	80	days
Peaches	up to	13	days
Plums	up to	20	days
Cranberry	up to	60	days
Rhubarb	up to	13	days
Gooseberries	up to	13	days
Grapes	up to	29	days

5.8.4 Adjusting the temperature in the BioFresh compartment

The temperature is automatically regulated to between 0 °C and 3 °C, the recommended temperature is 1 °C.

You can adjust the temperature slightly colder or warmer. The temperature can be adjusted from **b1** (coldest temperature) to **b9** (warmest temperature). The presetting is **b5**. At the **b1** to **b4** settings the temperature may drop below 0 °C and therefore the food may freeze slightly.

- ▶ To activate the setting mode: press the SuperFrost button *Fig. 3 (4)* for about 5 s.
- ▷ The menu symbol *Fig. 3 (18)* shines.
- ▷ The temperature display indicates: **c**
- ▶ Press the Up setting button, freezer compartment *Fig. 3 (11)* the number of times required for **b** to flash in the display.
- ▶ To confirm: briefly press the SuperFrost button.
- ▶ For a warmer temperature adjustment: press Up setting button, freezer compartment *Fig. 3 (11)*.
- ▶ For a colder temperature adjustment: press Down setting button, freezer compartment *Fig. 3 (15)*.
- ▶ To confirm: press SuperFrost button.
- ▷ The temperature slowly adjusts to the new value.





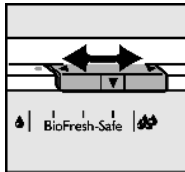
- ▶ To deactivate the setting mode: press the On/Off button, freezer compartment *Fig. 3 (6)*.

-or-

- ▶ Wait for 5 minutes.
- ▷ The temperature is indicated again in the temperature display.

5.8.5 Setting the humidity in the HydroSafe

- ▶  low humidity: slide the controller to the left.
- ▶  high humidity: slide the controller to the right.



5.8.6 Drawers

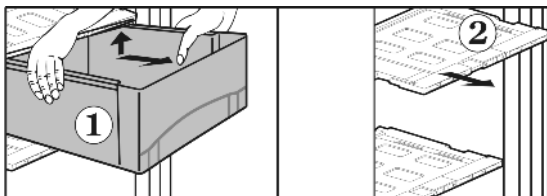


Fig. 13

- ▶ Pull out drawers *Fig. 13 (1)* to the limit.
- ▶ Then raise the drawer at the back, pull it forwards and lift it.
- ▷ In the case of the bottom drawer, the drawer locking device is additionally released and the drawer can be removed.
- ▶ Disengage drawer cover *Fig. 13 (2)* with humidity controller of removed drawers by lifting and draw it forwards for removal.

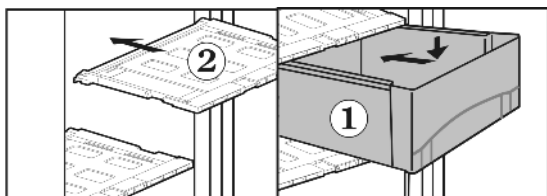


Fig. 14

- ▶ To insert drawer cover *Fig. 14 (2)*: insert the bars of the drawer cover into the rear holders from below and snap into the holder at the front.
- ▶ Attach the drawers *Fig. 14 (1)* to the slides and push all the way in until the drawer audibly engages into place.
- ▷ In the case of the bottom drawer, the drawer locking device additionally engages and the vegetable drawer sits firmly on the telescopic slides.

5.9 Freezer compartment

You can store frozen food, make ice cubes and freeze fresh food in the freezer compartment.

5.9.1 Freezing food

The maximum load of frozen food for a single drawer or shelf is 25 kg.



CAUTION

Risk of injury due to broken glass!

Bottles and cans containing drinks may burst when being frozen. This applies particularly to sparkling drinks.

- ▶ Do not freeze bottles and cans containing drinks!

In order that the food is rapidly frozen through to the core, do not exceed the following quantities per pack:

- fruit and vegetables up to 1 kg
- meat up to 2.5 kg
- ▶ Pack the food in portions in freezer bags, reusable plastic, metal or aluminium containers.

5.9.2 Thawing food

- in the refrigerator compartment
- at room temperature
- in a microwave oven
- in a conventional or fan oven
- ▶ Food once thawed should be re-frozen only in exceptional cases.

5.9.3 Setting the temperature in the freezer compartment

The appliance is pre-set for normal operation.

The temperature in the freezer compartment can be set from -16 °C to -26 °C, the recommended temperature is -18 °C.

- ▶ To set the temperature warmer: press Up setting button, freezer compartment *Fig. 3 (11)*.
- ▶ To set the temperature colder: press Down setting button, freezer compartment *Fig. 3 (9)*.
- ▷ When the button is pressed the first time, the previous value is indicated in the temperature display of the freezer compartment.
- ▶ To change the temperature in 1 °C steps: briefly press the button.

-or-

- ▶ To change the temperature continuously: hold down the button.
- ▷ The value is displayed flashing during the setting operation.
- ▷ The actual temperature is displayed about 5 s after the last press of a button. The temperature slowly adjusts to the new value.

5.9.4 SuperFrost

With this function you can freeze fresh food quickly through to the core. The appliance operates with maximum refrigerating performance. The sound of the refrigeration unit may be temporarily louder as a result.

The maximum number of kilograms of fresh food you can freeze within 24 hours is indicated on the type plate under "freezing capacity ... kg/24h". This amount varies according to the model and climate rating.

Freezing with SuperFrost

You do not have to activate SuperFrost in the following cases:

- when placing frozen food in the freezer
- when freezing up to about 2 kg fresh food daily
- ▶ Briefly press the SuperFrost button *Fig. 3 (4)* once.

Maintenance

- ▷ The SuperFrost symbol *Fig. 3 (5)* shines.
- ▷ The freezer temperature drops, the appliance operates with the maximum refrigerating capacity.
 - In case of a small amount of food to be frozen:
 - ▶ wait about 6 h.
 - ▶ Place the fresh food in the top drawers.
 - In case of the maximum amount of food to be frozen:
 - ▶ wait about 24 h.
 - ▶ Place wrapped food straight onto the shelves and put it into the drawers once it has frozen.
- ▷ SuperFrost is automatically deactivated. At the earliest after 30 h, at the latest after 65 h, depending on quantity placed inside.
- ▷ Freezing is concluded.
- ▷ The SuperFrost symbol *Fig. 3 (5)* goes out.
- ▷ The appliance continues to operate in the energy-saving, normal mode.

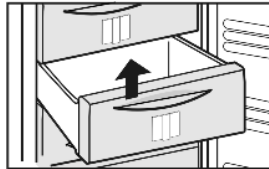
5.9.5 Drawers

Note

The energy consumption increases and the cooling performance decreases if the ventilation is insufficient.

For appliances with NoFrost:

- ▶ Leave the bottom drawer in the appliance!
- ▶ Always keep the air slits of the fan free at the rear wall!



- ▶ To store frozen food directly on the shelves: pull drawer forwards and lift it for removal.

5.9.6 Shelves

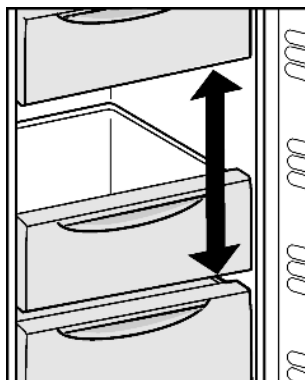
- ▶ To remove shelf: lift it at the front and pull it out.
- ▶ To insert shelf: simply slide it in to the limit.



5.9.7 VarioSpace

Apart from being able to remove the drawers, you can also remove the shelves, creating space for large frozen food. Poultry, meat, large pieces of game and high bakery products can be frozen in one piece and prepared.

- ▶ Do not load a single drawer or the shelf with more than 25 kg frozen food.



5.9.8 Information system

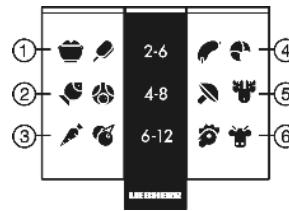


Fig. 15

- (1) Pre-cooked meals, ice cream
- (2) Pork, fish
- (3) Fruit, vegetables
- (4) Sausages, bread
- (5) Game, mushrooms
- (6) Poultry, beef/veal

The figures indicate the storage time in months for several types of frozen food in each case. Storage times given are guide times.

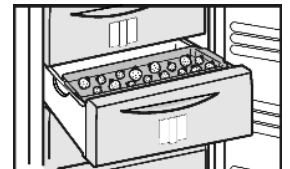
5.9.9 Freezer tray

The freezer tray allows you to freeze berries, herbs, vegetables and other small items of food without them sticking together. Items being frozen will largely retain their shape, and it will be easier to remove exactly the right quantity later on.

In addition, you can store the cold storage accumulators in the freezer tray to save space.

Using the freezer tray

- ▶ Spread the items out loosely on the freezer tray.
- ▶ Attach the freezer tray in one of the upper drawers.
- ▶ Allow the food to freeze through for 10 to 12 h.
- ▶ Transfer the frozen food to freezer bags or containers.
- ▶ Store freezer bags or containers in a drawer.
- ▶ To defrost, spread the items out loosely again.

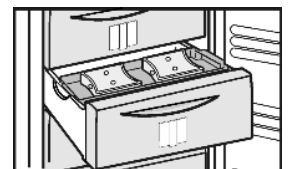


5.9.10 Cold storage accumulators

The cold storage accumulators prevent the temperature from rising too quickly in case of power failure.

Using cold storage accumulators

- ▶ Place the cold storage accumulators in the freezer tray to save space.
- ▶ Place the frozen cold storage accumulators straight on top of the frozen food in the top large drawer.



6 Maintenance

6.1 Defrosting with NoFrost

The NoFrost system automatically defrosts the appliance.

Refrigerator compartment:

The defrost water evaporates as a result of the heat of the compressor. Drops of water on the rear wall are perfectly normal.

- ▶ Regularly clean the drain opening to allow the water to flow away. (see section on cleaning)

Freezer compartment:

The moisture condenses on the evaporator, is periodically defrosted and evaporates.

- ▶ The appliance does not have to be manually defrosted.

6.2 Cleaning the appliance

Before cleaning:



CAUTION

Risk of injury and damage as a result of hot steam!
Hot steam may damage the surfaces and cause burns.
▶ Do not use any steam cleaners!

ATTENTION

Incorrect cleaning damages the appliance!
▶ Do not use cleaning agents in concentrated form.
▶ Do not use any scouring or abrasive sponges or steel wool.
▶ Do not use any cleaning agents containing sand, chloride, chemicals or acid.
▶ Do not use chemical solvents.
▶ Do not damage or remove the type plate on the inside of the appliance. It is important for the customer service.
▶ Do not pull off, bend or damage cables or other components.
▶ Do not allow any cleaning water to enter the drain channel, ventilation grille or electrical parts.

- ▶ Empty appliance.
- ▶ Pull out the plug.



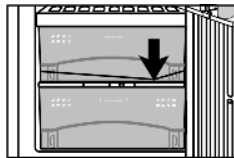
- Use soft cleaning cloths and a multi-purpose cleaning agent with neutral pH value.
- Only use food compatible cleaning and care agents on the inside of the appliance.

Outside surfaces and interior:

- ▶ Clean the plastic surfaces, outside and inside, by hand using lukewarm water and a little washing-up liquid.

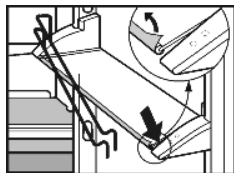
Clean stainless steel surfaces with a standard stainless steel cleaning agent. Darker areas at the beginning and quite an intensive colour of the stainless steel surface are normal.*

- ▶ Do not apply cleaners to glass or plastic surfaces so as not to scratch them.*
- ▶ To clean stainless steel surfaces: apply a stainless steel cleaning agent evenly in the direction of the grain.*
- ▶ To clean drain opening: remove deposits using a thin instrument, e.g. a cotton bud.

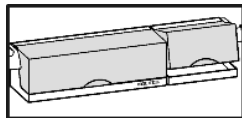


Items of equipment:

- ▶ Clean items of equipment by hand with lukewarm water and a little washing-up liquid.
- ▶ Dismantling shelves: remove trims and side parts.*
- ▶ Dismantling storage racks: remove protective films from the trims.*



- ▶ Lift out the boxes and lift the covers for removal.



After cleaning:

- ▶ Wipe dry the appliance and items of equipment.
- ▶ Connect the appliance and switch it on again.
- ▶ Activate SuperFrost. (see section on SuperFrost) When the temperature is sufficiently cold:
- ▶ Put the food back inside.

6.3 Changing the interior light with bulb

Bulb data

max. 25 W
Fitting: E14
Type of current and voltage must conform with the details on the type plate

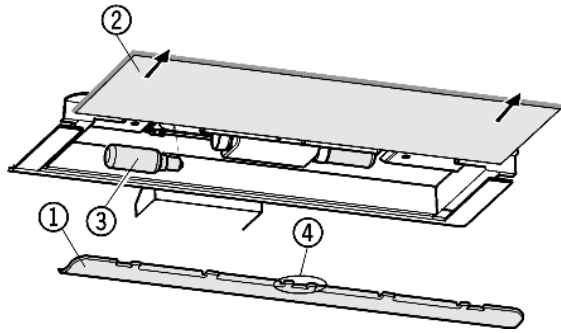


Fig. 16

- ▶ Switch off the appliance.
- ▶ Pull out the power plug or switch off the fuse.
- ▶ To remove the cover Fig. 16 (1): put your finger behind the cover and disengage it.
- ▶ Pull out the glass shelf Fig. 16 (2).
- ▶ Change the bulb Fig. 16 (3).
- ▶ Slide the glass shelf back in.
- ▶ Attach the cover again, engage it at the right and left and pay attention that the middle hook Fig. 16 (4) grips over the glass shelf.

6.4 Customer service

First check whether you can correct the fault yourself by reference to the list in the section on troubleshooting. If this is not the case, please contact the customer service whose address is given in the enclosed customer service list.



WARNING

Risk of injury if repair work is not carried out professionally!
▶ Have any repairs to and intervention in the appliance and mains power cable, which are not expressly mentioned in the section on maintenance, carried out by the customer service only.

- ▶ Read the appliance designation Fig. 17 (1), service No. Fig. 17 (2) and serial No. Fig. 17 (3) off the type plate located inside the appliance on the left-hand side.

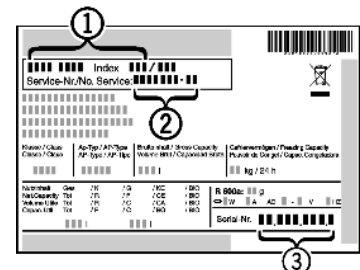


Fig. 17

- ▶ Notify the customer service, specifying the fault, appliance designation Fig. 17 (1), service No. Fig. 17 (2) and serial No. Fig. 17 (3).
- ▶ This will help us to provide you with a faster and more accurate service.
- ▶ Keep the appliance closed until the customer service arrives.
- ▶ The food will stay cool longer.
- ▶ Pull out the mains plug (not by pulling the connecting cable) or switch off the fuse.

7 Malfunction

Your appliance is designed and manufactured for a long life span and reliable operation. If a malfunction nonetheless occurs during operation, check whether it is due to a handling error. In this case you will have to be charged for the costs incurred, even during the warranty period. You may be able to rectify the following faults yourself:

Appliance does not work.

- The appliance is not switched on.
- ▶ Switch appliance on.

Decommissioning

- The power plug is not properly inserted in the wall socket.
- ▶ Check power plug.
- The fuse of the wall socket is not in order.
- ▶ Check fuse.

The compressor runs for a long time.

- The compressor switches to a low speed when little cooling is needed. Although the running time is increased as a result, energy is saved.
- ▶ This is normal in energy-saving models.
- SuperFrost is activated.
- ▶ The compressor runs for longer in order to rapidly cool the food. This is normal.
- SuperCool is activated.
- ▶ The compressor runs for longer in order to rapidly cool the food. This is normal.

A bubbling and gurgling sound

- This sound comes the refrigerant flowing in the refrigeration circuit.
- ▶ The sound is normal.

A faint clicking sound

- The sound is always produced when the refrigeration unit (the motor) automatically switches on or off.
- ▶ The sound is normal.

A hum. It is briefly a little louder when the refrigeration unit (the motor) switches on.

- The refrigeration increases automatically when the SuperFrost function is activated, fresh food has just been placed in the appliance or the door has been left open for a while.
- ▶ The sound is normal.
- The refrigeration increases automatically when the SuperCool function is activated, fresh food has just been placed in the appliance or the door has been left open for a while.
- ▶ The sound is normal.
- The ambient temperature is too high.
- ▶ See section on range of appliance use

A low hum

- The sound is caused by the fan air flow.
- ▶ The sound is normal.

Vibratory sound

- The appliance is not standing firmly on the floor. As a result, adjoining units or objects are set into vibration by the running refrigeration unit.
- ▶ Move the appliance away a little and align it using the adjustable feet.
- ▶ Move bottles and containers apart.

The temperature display reads: F0 to F9

- There is a fault.
- ▶ Contact the customer service. See the section on maintenance.

The temperature display reads: FE

- There is a fault.
- ▶ Contact the customer service. See the section on maintenance.

The temperature display indicates power failure . The warmest temperature reached during the power failure appears in the temperature display.

- The freezer temperature rose too high over the last hours or days due to a power failure or power interruption. When the power interruption is over, the appliance will continue to operate in the last temperature setting.
- ▶ To delete the display of the warmest temperature: Press alarm button *Fig. 3 (8)*.
- ▶ Check the quality of the food. Do not consume spoiled food. Do not re-freeze thawed food.

DEMO shines in the temperature display.

- The demo mode is activated.

- ▶ Contact the customer service. See the section on maintenance.

The outside surfaces of the appliance are warm.

- The heat of the refrigeration circuit is used to prevent condensate from forming.
- ▶ This is normal.

The temperature is not cold enough.

- The door of the appliance is not properly closed.
- ▶ Close the appliance door.
- Insufficient ventilation.
- ▶ Clear ventilation grilles.
- The ambient temperature is too high.
- ▶ See the section on the range of appliance use.
- The appliance was opened too frequently or for too long.
- ▶ Wait until the appliance reaches the required temperature itself. If not, contact the customer service. See the section on maintenance.
- Too much fresh food was placed inside without SuperFrost.
- ▶ See section on SuperFrost.
- The temperature is incorrectly set.
- ▶ Set to a colder temperature and check after 24 h.
- The appliance is too close to a heat source.
- ▶ See the section on installation.

The interior light is not on.

- The appliance is not switched on.
- ▶ Switch appliance on.
- The door was open longer than 15 min.
- ▶ The interior light automatically switches off if the door has been open for about 15 min.
- If the interior light is not on but the temperature display is lit, the bulb is faulty.
- ▶ Change the bulb according to the section on maintenance.

8 Decommissioning

8.1 Switching off the appliance

Note

- ▶ To switch off the entire appliance, it is necessary only to switch off the freezer compartment.
-

8.1.1 Switching off the freezer compartment

- ▶ Press On/Off button, freezer compartment *Fig. 3 (6)* for about 2 s.
- ▷ The temperature displays are dark. The appliance is switched off.

8.1.2 Switching off the refrigerator compartment with BioFresh compartment

Note

- ▶ The refrigerator compartment can be switched off separately, if required.
 - ▶ Press On/Off button, refrigerator compartment *Fig. 3 (1)* for about 2 s.
 - ▷ The temperature display of the refrigerator compartment *Fig. 3 (12)* is dark. The refrigerator compartment and BioFresh compartment are switched off.
-

8.2 Taking out of service

- ▶ Empty the appliance.

- ▶ Pull out the plug.
- ▶ Clean the appliance (see section on cleaning).



- ▶ Leave the door open to prevent odour.

9 Disposing of the appliance

The appliance contains some reusable materials and should be disposed of properly - not simply with unsorted household refuse. Appliances which are no longer needed must be disposed of in a professional and appropriate way, in accordance with the current local regulations and laws.



When disposing of the appliance, ensure that the refrigeration circuit is not damaged to prevent uncontrolled escape of the refrigerant it contains (data on type plate) and oil.

- ▶ Disable the appliance.
- ▶ Pull out the plug.
- ▶ Cut through the connecting cable.

