

Operating and installation instructions

Refrigerator



To avoid the risk of accidents or damage to the appliance it is **essential** to read these instructions before it is installed and used for the first time.

Contents

Warning and Safety instructions	4
Caring for the environment	12
How to save energy	13
Guide to the appliance	16
Optional accessories	18
Switching on and off	19
Before using for the first time	19
Switching off for longer periods of time	20
The correct temperature	21
... in the refrigerator section	21
... in the freezer compartment	21
Temperature display	22
Setting the temperature	22
Using Super cool	23
Super cool function	23
Selecting further settings	24
Settings mode	24
Activating and deactivating the lock	24
Storing food in the refrigerator section	26
Different storage zones	26
Food which is not suitable for storage in the refrigerator section	27
When shopping for food	27
Storing food correctly	28
Adjusting the interior fittings	29
Adjusting the door shelf / bottle shelf	29
Adjusting the bottle holder	29
Moving the shelves	29
Moving the charcoal filters	30
Freezing and storing food (depending on model)	31
Using the freezer compartment	31
Freezing fresh food	31
Storing frozen food	31
Home freezing	32
Cooling drinks	34
Using accessories	34

Defrosting	35
Cleaning and care	37
Cleaning agents.....	37
Preparing the appliance for cleaning.....	38
Cleaning the interior and accessories	39
Cleaning the door seal	40
Cleaning the ventilation gaps	40
Replacing the charcoal filters	40
What to do if	42
Noises	48
After Sales / Guarantee	49
Electrical connection	50
Installation	51
Location.....	51
Climate range	51
Ventilation.....	52
Furniture door panel	53
Horizontal and vertical gaps.....	53
Weight of the furniture door	54
Fitting large or divided furniture doors	54
Before installing the appliance	55
Does your old appliance have a different hinging mechanism?	56
Stainless steel front	56
Building-in dimensions	57
Limiting the opening angle of the door	58
Adjusting the door hinges	59
Changing the door hinging	60
Changing the hinging of the freezer compartment door	62
Installing the appliance	64
Fitting the furniture door.....	72

Warning and Safety instructions

This appliance complies with all statutory safety requirements. Please note that inappropriate use can lead to personal injury and damage to property.

To avoid the risk of accidents and damage to the appliance, please read these instructions carefully before using it for the first time. They contain important notes on installation, safety, use and maintenance.

Miele cannot be held liable for non-compliance with these instructions.

Keep these instructions in a safe place and ensure that new users are familiar with the contents. Pass them on to any future owner.

Correct application

- ▶ This refrigeration appliance is intended for use in the home and in similar environments, for example
 - in shops, offices and similar work settings
 - by the guests in hotels, motels, bed & breakfasts and other typical home settings.

This refrigeration appliance is not intended for outdoor use.

- ▶ This appliance is intended for domestic use only for cooling and storing food and drink as well as for storing deep frozen food, freezing fresh food and for making ice. Any other usage is not supported by the manufacturer and could be dangerous.

- ▶ This appliance is not suitable for storing and keeping cool medicines, blood plasma, laboratory preparations or other such materials or products. Incorrect use of the appliance for such purposes can cause deterioration of the items stored. The appliance is not suitable for use in areas where there is a risk of explosion. Miele cannot be held liable for damage resulting from improper or incorrect use of the appliance.

Warning and Safety instructions

► The appliance can only be used by people with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, if they are supervised whilst using it, or have been shown how to use it in a safe way and recognise and understand the consequences of incorrect operation.

Safety with children

► Children under 8 years of age must be kept away from the appliance unless they are constantly supervised.

► Children 8 years and older may only use the appliance unsupervised if they have been shown how to use it in a safe way and recognise and understand the consequences of incorrect operation.

► Children must not be allowed to clean or maintain the appliance unsupervised.

► Please supervise children in the vicinity of the appliance and do not let them play with it.

► Danger of suffocation! Whilst playing, children could become entangled in packaging (such as plastic wrapping) or pull it over their head and suffocate. Keep packaging material away from children.

Warning and Safety instructions

Technical safety

► The coolant system is tested for leaks. This appliance complies with statutory safety requirements and the appropriate EU guidelines.



► This appliance contains the coolant Isobutane (R600a), a natural gas which is environmentally friendly. Although it is flammable, it does not damage the ozone layer and does not increase the greenhouse effect.

The use of this coolant has, however, led to a slight increase in the noise level of the appliance. In addition to the noise of the compressor, you might be able to hear the coolant flowing around the system. This is unavoidable, and does not have any adverse effect on the performance of the appliance.

Care must be taken during the transportation and setting up of the appliance that no parts of the cooling system are damaged. Leaking coolant can damage the eyes.

In the event of any damage:

- avoid naked flames or anything which creates a spark,
- disconnect the appliance from the mains electricity supply,
- ventilate the room where the appliance is located for several minutes, and
- contact the Miele Service Department.

Warning and Safety instructions

- ▶ The more coolant there is in a refrigeration appliance, the larger the room it should be installed in. In the event of a leakage, if the appliance is in a small room, there is the danger of combustible gases building up. For every 11 g of coolant at least 1 m³ of room space is required. The amount of coolant in the appliance is stated on the data plate inside the appliance.
- ▶ To avoid the risk of damage to the appliance, make sure that the connection data (fuse rating, frequency and voltage) on the data plate corresponds to the household supply. Check that this is the case before connecting the appliance. Consult a qualified electrician if in any doubt.
- ▶ The electrical safety of this appliance can only be guaranteed when correctly earthed. It is essential that this standard safety requirement is met. If in any doubt please have the electrical installation tested by a qualified electrician.
- ▶ Reliable and safe operation of this appliance can only be assured if it has been connected to the mains electricity supply.
- ▶ If the electrical connection cable is faulty it must only be replaced by a Miele authorised service technician to protect the user from danger.
- ▶ Do not connect the appliance to the mains electrical supply by a multi-socket adapter or extension lead. These are a fire hazard and do not guarantee the required safety of the appliance.
- ▶ If moisture gets into electrical components or into the mains connection cable, it could cause a short circuit. Therefore, do not operate this refrigeration appliance in areas which are exposed to moisture (e.g in a garage or utility room).
- ▶ This appliance must not be used in a non-stationary location (e.g. on a ship).
- ▶ Do not use a damaged appliance. It could be dangerous. Check the appliance for visible signs of damage.

Warning and Safety instructions

- ▶ For safety reasons, this appliance may only be used after it has been built in.
- ▶ The appliance must be isolated from the electricity supply during installation, maintenance and repair work.
- ▶ Unauthorised installation, maintenance and repairs can cause considerable danger for the user.
Installation, maintenance and repairs must only be carried out by a Miele authorised technician.
- ▶ While the appliance is under guarantee, repairs should only be undertaken by a Miele authorised service technician. Otherwise the guarantee is invalidated.
- ▶ Miele can only guarantee the safety of the appliance when genuine original Miele replacement parts are used. Faulty components must only be replaced by Miele spare parts.

Correct use

- ▶ The appliance is designed for use within a certain climate range (ambient temperatures), and should not be used outside this range. The climate range for your appliance is stated on the data plate inside the appliance. Installing it in a room with too low an ambient temperature, e.g. a garage, will lead to the appliance switching off for longer periods so that it cannot maintain the required temperature.
- ▶ Do not cover or block the air vents as this could impair the efficiency of the appliance, increase the electricity consumption and could cause damage to the components.
- ▶ If storing food which contains a lot of fat or oil in the appliance or the door, make sure that it does not come into contact with plastic components as this could cause stress cracks or break the plastic.
- ▶ Do not store explosive materials in the appliance or any products containing propellants (e.g. spray cans). Electrical components could cause flammable vapours to ignite. Danger of fire and explosion.

Warning and Safety instructions

- ▶ Do not operate any electrical equipment (e.g. an electric ice cream maker) inside the appliance. Danger of sparking and explosion.
- ▶ Do not store cans or bottles containing carbonated drinks or liquids which could freeze in the freezer compartment. The cans or bottles could explode. Danger of injury and damage to the appliance.
- ▶ When cooling drinks quickly in the freezer compartment, make sure bottles are not left in for more than one hour; otherwise they could burst, causing injury or damage.
- ▶ Never handle frozen food or the metal parts of the appliance with wet hands. Your hands may freeze to the frozen food or to the metal. Danger of frost burn.
- ▶ Do not take ice cubes out with your bare hands and never place ice cubes or ice lollies in your mouth straight from the freezer compartment.
The very low temperature of the frozen ice or lollies can cause frost burn to the lips and tongue.
- ▶ Do not refreeze partially or fully defrosted food. Consume defrosted food as soon as possible, as it will lose its nutritional value and spoil if left for too long. Defrosted food may only be re-frozen after it has been cooked.
- ▶ Observe the manufacturer's "use-by" dates and storage instructions given on food to avoid the risk of food poisoning. Storage times will depend on several factors, including the freshness and quality of the food, as well as the temperature at which it is stored.
- ▶ Only use genuine original Miele accessories and spare parts with this appliance. Using accessories or spare parts from other manufacturers will invalidate the guarantee, and Miele cannot accept liability.

Warning and Safety instructions

Cleaning and care

- ▶ Do not use any oils or grease on the door seals, as these will cause the seals to deteriorate and become porous with time.
- ▶ Do not use a steam cleaning appliance to clean or defrost this appliance.
Steam could reach electrical components and cause a short circuit.
- ▶ Sharp edged or pointed objects will damage the evaporator, causing irreversible damage to the appliance. Do not use sharp edged or pointed objects to
 - remove frost and ice,
 - separate frozen foods or remove ice trays.
- ▶ Do not place electric heaters or candles in the appliance to defrost it. These can damage the plastic parts.
- ▶ Do not use defrosting sprays or de-icers, as they could contain substances which could damage the plastic parts or which might cause the build-up of gases and pose a danger to health.

Transporting the appliance

- ▶ Always transport the appliance in an upright position and in its original transport packaging to avoid damage in transit.
- ▶ Danger of injury and damage. The appliance is very heavy and must be transported by two people.

Disposal of your old appliance

► Before disposing of an old appliance, first make the door latch or lock unusable.

This way you will prevent children from accidentally locking themselves in and endangering their lives.

- Splashes of coolant can damage the eyes. Be careful not to damage any part of the pipework whilst awaiting disposal, e.g. by
- puncturing the coolant channels in the condenser,
 - bending any pipework, or
 - scratching the surface coating.

Symbol on the compressor (depending on model)

This information is only relevant for recycling. In normal operation there is no risk.



- The oil in the compressor can be fatal if swallowed or if it penetrates the airways.

Caring for the environment

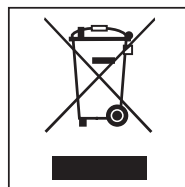
Disposal of the packing material

The packaging is designed to protect the appliance from damage during transportation. The packaging materials used are selected from materials which are environmentally friendly for disposal and should be recycled.

Recycling the packaging reduces the use of raw materials in the manufacturing process and also reduces the amount of waste in landfill sites.

Disposal of your old appliance

Electrical and electronic appliances often contain valuable materials. They also contain specific materials, compounds and components, which were essential for their correct function and safety. These could be hazardous to human health and to the environment if disposed of with your domestic waste or if handled incorrectly. Please do not, therefore, dispose of your old appliance with your household waste.



Please dispose of it at your local community waste collection / recycling centre for electrical and electronic appliances, or contact your dealer or Miele for advice. You are also responsible (by law, depending on country) for deleting any personal data that may be stored on the appliance being disposed of.

Take care not to damage the pipework at the back of it before or during transportation to an authorised collection depot.

In this way, refrigerant in the pipework and oil in the compressor will be contained, and will not leak into the environment.

Please ensure that your old appliance presents no danger to children while being stored awaiting disposal. See "Warning and Safety instructions" for more information.

How to save energy

	Normal energy consumption	Increased energy consumption
Installation / Maintenance	In a ventilated room.	In an enclosed, unventilated room.
	Protected from direct sunlight.	In direct sunlight.
	Not near to a heat source (radiator, oven).	Near to a heat source (radiator, oven).
	Where the ideal ambient room temperature is approx. 20 °C.	Where the ambient room temperature is above 25 °C.
	Ventilation gaps uncovered and dusted regularly.	Ventilation gaps covered or dusty.
Temperature setting	Refrigerator section 4 to 5 °C	The lower the temperature, the higher the energy consumption.
	Freezer compartment -18 °C	

How to save energy

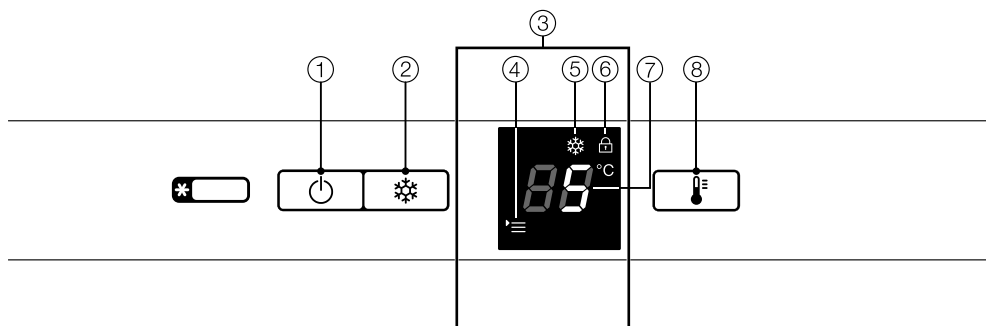
	Normal energy consumption	Increased energy consumption
Use	Drawers and shelves arranged as they were when the appliance was delivered.	
	Only open the door when necessary and for as short a time as possible. Store food in an organised way.	Frequent opening of the door for long periods will cause a loss of coldness. The appliance will cool down and the compressor will run for longer periods.
	Take an insulated cool bag when shopping and load food in the appliance as soon as possible. Replace any food removed as quickly as possible, before it begins to thaw. Allow hot food and drinks to cool down before placing them in the appliance.	Hot food or food at room temperature raises the temperature inside the appliance. The appliance will cool down and the compressor will run for longer periods.
	Store food covered or packaged.	The evaporation or condensation of liquids will cause a loss of coldness.
	Place frozen food in the refrigerator to defrost.	
	Do not over-fill the appliance to allow air to circulate.	Poor air circulation will cause a loss of coldness.

How to save energy

	Normal energy consumption	Increased energy consumption
Defrosting	Defrost the freezer compartment when a layer of ice 0.5 cm (max.) thick has built up.	A build-up of ice slows down the cooling process.

Guide to the appliance

Control panel



① On/Off button

② Super cool button

③ Display

④ Menu symbol
(Settings mode:
for switching the safety lock on/off)

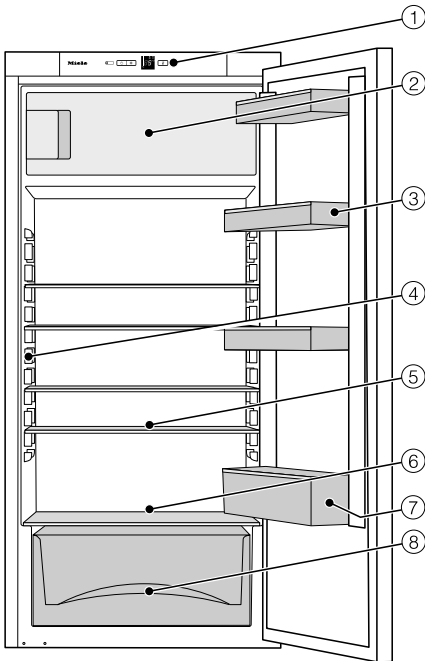
⑤ Super cool symbol

⑥ Lock symbol

⑦ Temperature display

⑧ Temperature selector button

Guide to the appliance



- ① Control panel
- ② Freezer compartment (depending on model)
- ③ Door shelf / Egg tray
- ④ Interior lighting
- ⑤ Adjustable shelf
- ⑥ Condensate channel and drain hole
- ⑦ Bottle shelf
- ⑧ Fruit and vegetable drawer (depending on model)

This drawing is for illustration purposes only.

Guide to the appliance

Optional accessories

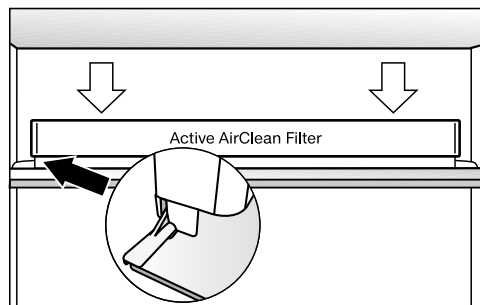
A range of useful Miele accessories and care products are available for your appliance.

Multi-purpose microfibre cloth

The microfibre cloth is suitable for removing fingerprints and light soiling from surfaces such as stainless steel, glass, plastic and chrome without the use of chemicals.

KKF-FF Active AirClean charcoal filters with holder

Charcoal filters neutralise unpleasant odours in the refrigerator section for improved air quality.

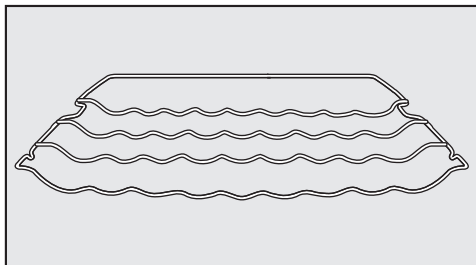


The charcoal filter holder clips onto the protective strip at the back of the shelf and can be moved as necessary.

KKF-RF Active AirClean replacement filters

Replacement filters to fit the Active AirClean holder are available. We recommend replacing the charcoal filters every 6 months.

Bottle rack



Bottles can be stored horizontally using the bottle rack to save space.

The bottle rack can be placed at different positions in the appliance.

Split shelf

In order to accommodate tall items in the appliance, one of the shelves is divided. The front section can be pushed under the rear section.

Accessories are available to order via the Miele Webshop, from Miele directly (see back cover for contact details) or from your Miele dealer.

Before using for the first time

Packaging material

- Remove all packaging material from the inside of the appliance.

Protective foil

The stainless steel trim to the interior shelves and the door shelves has a layer of protective foil to prevent damage during transportation.

- Carefully remove the protective foil from the stainless steel trim.

Cleaning

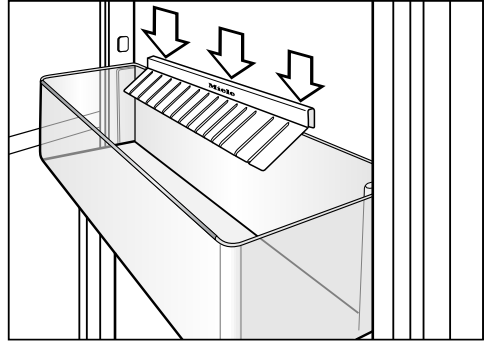
Please refer to the relevant instructions in "Cleaning and care".

- Clean the inside of the appliance and the accessories.

Accessories

- Bottle holder

The flexible ribs grip the bottles securely when the door is opened and closed.



- Attach the bottle holder centrally along the rear edge of the bottle shelf, as shown.

Switching on and off

Switching on



- Press the On/Off button.

The appliance will start to cool and the temperature required will appear in the temperature display. The interior lighting will come on when the door is opened.

To enable the temperature to get sufficiently cold inside the appliance, allow the appliance to run for a few hours before placing food in it.

Switching off



- Press the On/Off button until the display goes out.
If this does not happen, the safety lock is still activated (see "Selecting further settings - To deactivate the safety lock).

The interior lighting will go out and the cooling process will be switched off.

Switching off for longer periods of time

⚠ If, during a long absence, the appliance is switched off but not cleaned and the door(s) left shut, there is a danger of mould building up inside the appliance.
It is essential to clean the appliance.

If the appliance is not going to be used for a longer period of time, e.g. whilst on holiday:

- switch the appliance off,
- disconnect it from the mains,
- defrost the freezer compartment,
- clean the appliance and
- leave the door(s) ajar to air the appliance and avoid odours building up inside the appliance.

It is very important to set the correct temperature for storing food in the appliance. Micro-organisms will cause food which is not stored at the correct temperature to deteriorate rapidly. Temperature influences the growth rate of these micro-organisms. Reducing the temperature reduces their growth rate.

The temperature in the appliance will rise:

- the more often the door is opened and the longer it is kept open,
- the more food that is stored in it,
- the warmer the food is which is being put into it,
- the higher the ambient temperature surrounding the appliance. The appliance is designed for use within specific ambient temperatures (climate range). Do not use in ambient temperatures for which it is not designed.

. . . in the refrigerator section

We recommend a temperature of **4 °C** in the refrigerator section.

. . . in the freezer compartment

To freeze fresh food and to store frozen food for a long time, a temperature of **-18 °C** is required. At this temperature the growth of micro-organisms is generally halted. As soon as the temperature rises above -10 °C, the micro-organisms become active in the food again so that it cannot be kept as long. For this reason, partially defrosted or fully defrosted food must not be re-frozen. Food may be re-frozen once it has been cooked, as the high temperatures achieved when cooking destroy most micro-organisms.

The correct temperature

Temperature display

The temperature display on the control panel always shows the **required** temperature.

Setting the temperature

If the appliance door is opened very often, or if large quantities of food are being stored in the appliance, or if there is a high ambient temperature, it is advisable to set the temperature between **3 °C and 5 °C**.

The temperature can be adjusted from 9 °C to 1 °C.

The higher or lower the temperature in the refrigerator section, the higher or lower it is in the freezer compartment.



- Press the button for setting the temperature repeatedly until the temperature you want lights up in the temperature display.

The first time you press the button the last temperature set will flash in the display.

The temperature value will change up until the setting for 9 °C is reached. It will then drop back to the 1 °C setting.

The newly selected temperature will be adopted automatically after a short while and will appear in the display. The temperature in the appliance will now slowly start to adjust to this value.

The average temperature in the freezer compartment will be approx. **-18 °C**.

Super cool function

The Super cool function can be used to rapidly reduce the temperature in the refrigerator to its lowest setting (depending on the room temperature).

Super cool is particularly recommended for the rapid chilling of large amounts of fresh food or drink.

Switching on Super cool



- Press the Super cool button.

The Super cool symbol ❄ will light up. The appliance will work at full power to lower the temperature in the refrigerator section.

Switching off Super cool

The Super cool function switches off automatically after approx. 12 hours. The Super cool symbol ❄ will go out and the appliance will then continue to work at normal power.

To save energy, the Super cool function can be switched off once food and drinks are sufficiently chilled.



- Press the Super cool button until the symbol ❄ goes out.

The appliance will continue running at normal power.

Selecting further settings

Settings mode

Settings mode is used for activating and deactivating the safety lock.

Activating or deactivating the safety lock	c
--	---

Settings mode is represented in the display by the menu symbol '≡.

See below for instructions on how to **activate and deactivate the lock**.

Activating and deactivating the lock

The lock can be activated to prevent the appliance being switched off by mistake.

– To activate the safety lock



- Press the Super cool button for approx. 5 seconds.

The menu symbol '≡ will light up and c will start flashing in the display. Settings mode is now activated.



- Press the Super cool button briefly to access the lock function.

c1 will appear in the display.



- Press the Super cool button briefly to activate the lock.

The lock symbol  will light up.






- Press the On/Off button to exit Settings mode.

The temperature will appear in the display.

– To deactivate the safety lock




- Press the Super cool button for approx. 5 seconds.

The lock symbol  and the Menu symbol  will light up and  will start flashing in the display.

Settings mode is now activated.



- Press the Super cool button briefly to access the lock function.

 will appear in the display.



- Press the Super cool button briefly to deactivate the lock.

The lock symbol  will go out.



- Press the On/Off button to exit Settings mode.

The temperature will appear in the display.

Storing food in the refrigerator section



Danger of explosion.

Do not store explosive materials in the appliance or any products containing propellants (e.g. spray cans).



If storing food which contains a lot of fat or oil in the appliance or the appliance door, make sure that it does not come into contact with plastic components as this could cause stress cracks or break the plastic.

Make sure that no oil or grease leaks onto the plastic parts of the appliance. This can cause the plastic to crack and break.

Different storage zones

Due to natural air circulation there are different temperature zones in the refrigerator section.

Cold, heavy air sinks to the lowest section of the appliance. Make use of the different temperature zones when placing food in the appliance.

To allow air to circulate efficiently, do not pack food too closely together in the refrigerator.

Food must not touch the back of the refrigerator section as it may freeze to the back wall.

Warmest area

The warmest area in the refrigerator section is at the top in the front area and in the door. Use this for storing butter and cheese.

Coldest area

The coldest area is directly above the fruit and vegetable drawer(s) and at the back of the appliance.

Use this for all delicate and highly perishable food, e.g.

- fish, meat, poultry,
- sausage products, ready meals,
- dishes or baked goods containing eggs or cream,
- fresh dough, cake mixtures, pizza or quiche dough,
- soft cheese and other dairy products,
- pre-packed vegetables and other fresh food with a label stating it should be kept at a temperature of approx. 4 °C.

Storing food in the refrigerator section

Food which is not suitable for storage in the refrigerator section

Not all food is suitable for refrigeration at temperatures below 5°C as some food is sensitive to cold. The appearance, consistency, taste and / or the vitamin content of certain types of food can be adversely affected by being stored in too cold a place.

Food which does not tolerate cold temperatures includes:

- Pineapples, avocados, bananas, pomegranates, mangoes, melons, papayas, passion fruit, citrus fruits (such as lemons, oranges, mandarins, grapefruit),
- Fruit which is not yet ripe
- Aubergines/eggplant, cucumbers, potatoes, peppers/capsicum, tomatoes, courgettes/zucchini,
- Some hard cheeses, e.g. Parmesan.

When shopping for food

The freshness of food when first placed in the appliance is the most important factor in determining how long it stays fresh, and how long it can be kept in the appliance.

Always observe the use-by date and the recommended storage temperature. Time out of the refrigerator should be kept to a minimum, for example, when transporting food in a hot car.

Tip: Take a cool bag with you when shopping and on return place food into the appliance immediately.

Storing food in the refrigerator section

Storing food correctly

Food should generally be stored **covered or packaged** in the refrigerator section. This will prevent food smells from affecting other food, food from drying out, and also any cross-contamination of bacteria. This is especially important for storing protein-based food such as meat or fish. The storage time of food can be increased by setting the correct temperature and maintaining good standards of hygiene.

Fruit and vegetables

Fruit and vegetables can be stored loose in the fruit and vegetable drawer.

Protein rich food

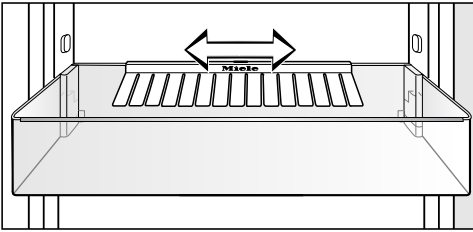
Please note that food rich in protein deteriorates faster than other types of food. Shellfish, for example, deteriorates faster than fish, and fish deteriorates faster than meat.

Adjusting the interior fittings

Adjusting the door shelf / bottle shelf

- Push the door/bottle shelf upwards, then remove it by pulling it forwards
- Replace the door/bottle shelf at the required position. Ensure that it is securely pushed back into position.

Adjusting the bottle holder



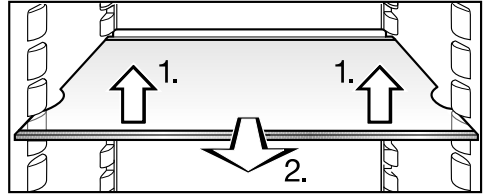
The bottle holder can be moved left or right to create more room for drink cartons.

The bottle holder can be removed completely (e.g. for cleaning):

- Push the bottle shelf upwards, then remove it by pulling it forwards
- Pull the bottle holder upwards to remove it from the rear edge of the bottle shelf.

Moving the shelves

The shelves can be adjusted according to the height of the food.



- Raise the shelf, and pull it forwards slightly until the notch at the side is in line with the shelf support. It can then be raised or lowered to the required level.

The raised edge on the protective strip at the back must face upwards to prevent food from touching the back of the appliance and freezing to it.

Stoppers prevent the shelves from being dislodged by mistake.

Adjusting the interior fittings

Moving the charcoal filters

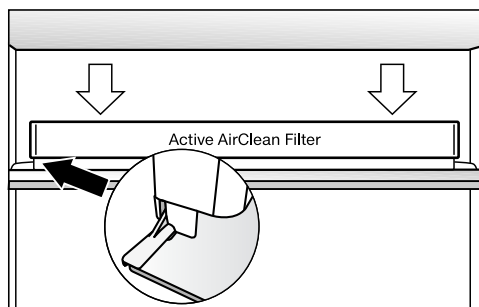
Charcoal filters and a KKF-FF (Active AirClean) holder are available as optional accessories (see "Accessories - optional accessories").

With very strong smelling food (e.g. very ripe cheese):

- Place the holder with the charcoal filters on the shelf where this food is kept.
- Change the charcoal filters earlier if necessary.
- Use more charcoal filters (with holders) in the appliance (see "Accessories - Optional accessories").

The holder for the charcoal filters sits on the protective strip at the back of the shelf.

- To move the charcoal filters, pull the holder upwards to remove it from the protective strip.



- Refit it on the protective strip of the shelf you wish to use it on.

Freezing and storing food (depending on model)

Using the freezer compartment

Use the freezer compartment to:

- store frozen food,
- make ice cubes,
- freeze small quantities of fresh food.

Up to 2 kg of food can be frozen in 24 hours.

Freezing fresh food

Fresh food should be frozen as quickly as possible. This way the nutritional value of the food, its vitamin content, appearance and taste are not impaired.

Food which takes a long time to freeze will lose more water from its cells, which then shrink. During the defrosting process, only some of this water is reabsorbed by the cells; the rest collects around the food.


If food is frozen quickly, the cells have less time to lose moisture, so they shrink less. As there is not so much moisture loss, it is easier for the food to reabsorb it during the defrosting process, and very little water collects around the defrosted food.

Storing frozen food

When buying frozen food to store in your freezer, check

- that the packaging is not damaged,
- the use-by date,
- the temperature at which the frozen food is being stored in the shop. The length of time it can be kept is reduced if it has been stored at a temperature warmer than -18 °C.

- Buy frozen food once you have finished the rest of your shopping, and wrap it in newspaper or use a cool bag or cool box to transport it.
- Store it in the freezer as soon as possible.

 Never re-freeze partially or fully defrosted food. Consume defrosted food as soon as possible as it will lose its nutritional value and spoil if left for too long. Defrosted food may only be re-frozen after it has been cooked.

Freezing and storing food (depending on model)

Home freezing

Only freeze fresh food which is in a good condition.

Hints on home freezing

- The following types of food **are suitable** for freezing:
Fresh meat, poultry, game, fish, vegetables, herbs, fresh fruit, dairy products, cakes, leftovers, egg yolks, egg whites and a range of pre-cooked meals.
- The following types of food **are not suitable** for freezing:
Grapes, lettuce, radishes, sour cream, mayonnaise, eggs in their shells, onions, whole raw apples and pears.
- To retain colour, taste, aroma and vitamin C, vegetables should be blanched after they have been trimmed and washed. To blanch: bring a large saucepan of water to the boil, immerse the vegetables in the fast boiling water for 2–3 minutes, depending on variety. Remove, and plunge into ice-cold water to cool quickly. Drain and pack ready for freezing.
- Lean meat freezes better than fatty meat, and can be stored for considerably longer.
- To prevent chops, steaks, cutlets or rolled meat from freezing together in solid blocks when packed, separate with a sheet of plastic freezer film.
- Do not season fresh foods or blanched vegetables before freezing. Only season cooked food lightly

before freezing, but care should be taken as the taste of some spices alters when frozen.

- Placing hot foods or drinks in the freezer causes food that is already frozen to partially thaw and increases energy consumption. Allow hot foods and drinks to cool down before placing them in the freezer.

Packaging

- Freeze food in portions.

Suitable packing material

- plastic freezer film
- freezer bags
- aluminium foil
- freezer containers

Unsuitable packing material

- wrapping paper
- grease-proof paper
- cellophane
- bin bags
- plastic carrier bags
- Expel as much air as possible from the packaging.
- Close the packaging tightly with
 - rubber bands
 - plastic clips
 - string or bag ties
 - freezer tape.

Tip: Freezer bags may also be sealed using home heat sealing kits.

Freezing and storing food (depending on model)

- Make a note of the contents and the date of freezing on the packaging.

Before placing food in the freezer compartment

- Set the temperature to 4 °C or colder for approx. 4 hours before placing food in the freezer compartment.

This helps food which is already stored in the freezer to stay frozen.

Placing food in the freezer compartment

Unfrozen food should not touch frozen food as this will cause frozen food to begin to thaw.

- Make sure that the packaging and containers are dry to prevent them sticking together when frozen.
- Place the food flat on the bottom of the freezer compartment or in contact with the interior side walls, so that it freezes through to the core as quickly as possible.

Approx. 24 hours after placing fresh food in the freezer compartment

The freezing process is complete.

- Select the temperature you want for the refrigerator section.
We recommend a temperature of 4 °C.

Storage time for frozen food

The storage life of food is very variable, even at a constant temperature of -18 °C. Decomposition processes also take place in frozen food, albeit at a very reduced speed. For example fat can become rancid from contact with oxygen in the air. This is why lean meat can be stored approx. twice as long as fatty meat.

The storage times quoted are guide values for the storage life of different food groups in the freezer section.

Food group	Storage time (Months)
Ice cream	2 to 6
Bread, baked goods	2 to 6
Cheese	2 to 4
Fish, oily	1 to 2
Fish, lean	1 to 5
Sausage, ham	1 to 3
Game, pork	1 to 12
Poultry, beef	2 to 10
Vegetables, fruit	6 to 18
Herbs	6 to 10

Where the storage time given on the packaging differs, follow the advice on the packaging.

Defrosting

Frozen food can be defrosted in different ways:

- in a microwave oven,

Freezing and storing food (depending on model)

- in an oven using "Fan heat" or the "Defrost" setting,
- at room temperature,
- in the refrigerator section (the cold given off by the frozen food helps to keep the other food cold),
- in a steam oven.

Flat pieces of partially thawed fish can be placed directly into a hot frying pan.

Meat and poultry It is particularly important to observe food hygiene rules when defrosting poultry. Do not use the liquid from defrosted poultry. Pour it away and wash the container it was in, the sink and your hands. Danger of salmonella poisoning. Ensure that meat and fish (e.g. mince, chicken, fish fillets) do not come into contact with other foods while defrosting. Catch the liquid and dispose of it carefully.

Fruit should be defrosted at room temperature in its packaging, or in a covered bowl.

Most vegetables can be cooked while still frozen. Just put straight into boiling water or hot fat. The cooking time is slightly less than that of fresh vegetables due to changes in the cell structure.

⚠ Never re-freeze partially or fully defrosted food. Consume defrosted food as soon as possible as it will lose its nutritional value and spoil if left for too long. Defrosted food may only be re-frozen after it has been cooked.

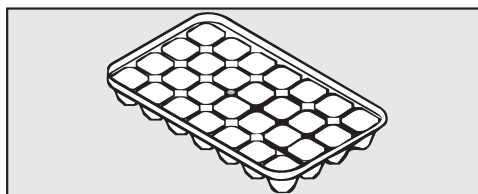
Cooling drinks

- To cool drinks quickly, place them in the refrigerator section, and switch on the Super cool function.

When cooling drinks quickly in the freezer compartment, make sure bottles are **not left in for more than one hour**; otherwise they could burst.

Using accessories

Ice cubes



- Fill the ice cube tray three quarters full of water and place it on the bottom of the freezer compartment.
- Once frozen, use a blunt instrument, for example a spoon handle, to remove the ice tray from the freezer if it is stuck.


Tip: Ice cubes can be removed easily from the tray by twisting the tray gently or by holding it under cold running water for a short time.

Refrigerator section

The refrigerator section defrosts automatically.

Condensate and frost can build up on the back wall of the refrigerator section whilst the compressor is running. You do not need to remove this, as it will defrost and evaporate automatically with the warmth generated by the compressor.

The condensate is drained away through a channel and drain hole, then fed into an evaporation system at the back of the appliance.

 Condensate must be able to drain away unhindered at all times. Keep the condensate channel and drain hole clean to enable this.

Freezer compartment

The freezer compartment does not defrost automatically.

In normal use, ice and frost will form in the freezer compartment, e.g. on the internal walls. How much ice and frost accumulates in the appliance will depend on the following:

- whether the freezer compartment door has been opened frequently or left open for a while.
- whether a large quantity of food has been placed in the freezer at once.
- whether the humidity in the room has increased.

In certain circumstances, too thick a layer of ice can prevent the freezer compartment door from closing

properly. Too thick a layer of ice also reduces efficiency and increases energy consumption.

- The freezer compartment should be defrosted from time to time. It must be defrosted if a layer of ice approx. 0.5 cm thick has accumulated.

The best time to defrost the freezer compartment is when:

- there is very little or no food left in the appliance,
- the humidity level in the room is low and the ambient temperature in the room is also low.

Do not scrape off ice and frost.

Do not use any sharp edged or pointed instruments to aid the defrosting process.

This would damage the evaporator, causing irreversible damage to the appliance.

Before defrosting

- Remove the frozen food from the freezer compartment and wrap it in several layers of newspaper or cloths.

Tip: You could also place the frozen food in a cool box or bag.

- Store it in a cool place until the freezer compartment is ready for use again.

Defrosting

To defrost

Carry out the defrosting procedure as quickly as possible. The longer the food is left out at room temperature, the faster it defrosts.

Do not use a steam-cleaning appliance to aid the defrosting process.

Steam could reach electrical components and cause a short circuit.

Do not place electric heaters or candles in the appliance to defrost it. These can damage the plastic parts.

Do not use defrosting sprays or de-icers, as they could contain substances which could damage the plastic parts or which might cause the build-up of gases and pose a danger to health.

- Switch the appliance off.
- Disconnect it from the mains.
- Leave the freezer compartment door open.

To speed up defrosting, a bowl of hot water (not boiling) can be placed on a saucer in the freezer compartment. Closing the door in this instance will help retain the warmth and speed up the defrosting process.


- Remove any pieces of ice which have become loose


Ensure that water does not get into the surrounding cabinetry.

- Use a sponge or towel to soak up the water as often as necessary.

After defrosting

- Clean the appliance and then dry it thoroughly.
Do not let water get into the condensate channel and drain hole.
- Reconnect to the mains and switch the appliance back on.
- Once the temperature in the freezer compartment has reached the required temperature, place the food back into the freezer compartment.

 Do not let water get into the electronic unit or the lighting.

 Steam from a steam cleaning appliance could reach the electrical components and cause a short circuit.

Do not use a steam cleaning appliance to clean the appliance.

Cleaning water must not get into the drain hole.

The data plate located inside the appliance must not be removed. It contains information which is required in the event of a service call.

Cleaning agents

To avoid damaging the surfaces of your appliance, **do not use:**

- cleaning agents containing soda, ammonia, acids or chlorides
- cleaning agents containing descaling agents
- abrasive cleaning agents, e.g. powder cleaners and cream cleaners
- solvent-based cleaning agents
- stainless steel cleaning agents
- dishwasher cleaner
- oven sprays
- glass cleaning agents
- hard, abrasive sponges and brushes, e.g. pot scourers
- melamine eraser blocks
- sharp metal scrapers.

Cleaning and conditioning agents used inside the appliance must be food safe.

We recommend using lukewarm water with a little washing-up liquid to clean surfaces of the appliance.

The following pages contain important information on cleaning.

Cleaning and care

Preparing the appliance for cleaning

- Switch the appliance off.

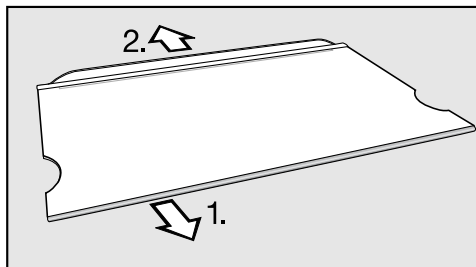
The display goes out and cooling is switched off.

If this does not happen, then the safety lock is still activated (see "Selecting further settings - Activating or deactivating the safety lock").

- Disconnect it from the mains.
- Take any food out of the appliance and store it in a cool place.
- Defrost the freezer compartment (depending on model - see Defrosting")
- Take out all other removable parts for cleaning.

Adjustable shelf

- Place the shelf on a worktop covered with a soft material (e.g. a tea towel).



- Remove the trim:
 1. Pull the stainless steel trim off the shelf beginning at one side.
 2. Then pull the protective strip off.
- After cleaning the shelf reattach the trim and the protective strip.

Cleaning the interior and accessories

Clean the appliance regularly, at least once a month, and the freezer compartment each time it is defrosted.

Remove soiling immediately to prevent it from drying on.

- Clean the interior with lukewarm water and a little washing-up liquid applied with a soft sponge. After cleaning, wipe with a clean, damp cloth and then dry with a soft cloth.

The stainless steel trim on the adjustable shelves is **not suitable** for cleaning in a dishwasher. Remove the stainless steel trim and strips before putting the shelves into the dishwasher.

The following parts **cannot be cleaned in a dishwasher**:

- the stainless steel trim
- all drawers and the drawer lid (depending on model)
- These accessories should all be hand washed.

The following parts **are suitable** for cleaning in a dishwasher:

The maximum temperature of the dishwashing programme selected must not exceed 55 °C.

Contact with natural dyes from carrots, tomatoes and ketchup may discolour the plastic parts in the dishwasher.

This discolouration does not affect the stability of the parts.

- the bottle holder, egg tray, ice cube tray (depending on model)
- the shelves and bottle shelf in the door
- the adjustable shelves (with the trim and strips removed)
- Clean the condensate channel and drain hole frequently so that condensate can drain away unhindered. Use a straw or similar to clear the drain if necessary.
- Leave the door open to air the appliance for a short while and to prevent odours building up.

Cleaning and care

Cleaning the door seal

Do not use any grease or oil on the door seal as these will cause the seal to deteriorate and become porous over time.

- The door seal should be cleaned regularly with clean water, and then wiped dry with a soft cloth.

Cleaning the ventilation gaps

A build-up of dust will increase the energy consumption of the appliance.

- The ventilation gaps should be cleaned on a regular basis with a brush or vacuum cleaner (e.g. use the dusting brush for Miele vacuum cleaners)

After cleaning

- Replace all shelves and accessories in the appliance.
- Reconnect to the mains and switch the appliance back on.
- Switch on the Super cool function for a while so that the appliance can cool down quickly.
- Place food back in the appliance and close the door.
- When the temperature in the freezer compartment is low enough, place food back in the freezer compartment and close the door.

Replacing the charcoal filters

Charcoal filters with a KKF-FF (Active AirClean) holder are available as optional accessories (see "Accessories - Optional accessories").

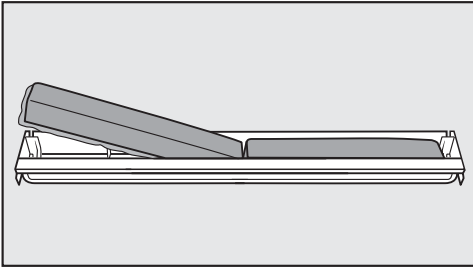
Replace the charcoal filters in the holder every 6 months.

Replacement KKF-RF charcoal filters can be obtained from your Miele dealer, Miele or via the internet at www.miele-shop.com.

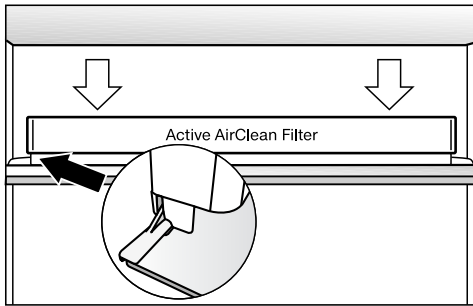
The charcoal filter holder is dishwasher-proof.

- Pull the charcoal filter holder upwards to remove it from the shelf.

When in position the charcoal filters must not touch the back wall of the appliance as the moisture could cause them to stick to the back wall. Insert the new charcoal filters into the holder so that they do not protrude over the edge of the holder.



- Remove both charcoal filters and place the new filters with the framed edge pointing downwards in the holder.






- Place the holder in the middle of the raised edge at the back of the shelf, so that it clicks into position.

What to do if ...

Some minor problems can be corrected without contacting Miele.
If, having followed the suggestions below, you still cannot resolve the problem, please contact Miele.

To prevent unnecessary loss of temperature it is advisable not to open the door while waiting for the appliance to be serviced.

 Unauthorised installation, maintenance and repairs can cause considerable danger for the user.
Installation, maintenance and repairs must only be carried out by a Miele authorised technician.



Problem	Cause and remedy
The appliance is not getting cold, the interior lighting does not come on when the door is opened, and the display is not lit up.	The appliance is not switched on and the mains connection symbol  is lit up in the display. ■ Switch the appliance on.
	The plug is not inserted in the socket correctly. ■ Insert the plug correctly into the socket. The mains connection symbol  appears in the display when the appliance is switched off.
	Check whether the mains fuse has tripped. There could be a fault with the appliance, the household electrical wiring or another electrical appliance. ■ Contact a qualified electrician or Miele.

Problem	Cause and remedy
The compressor runs continuously.	This is not a fault. To save energy, the compressor runs at a lower speed, but for longer, when less cooling is required.
The compressor is switching on more frequently and for longer periods of time, so the temperature in the appliance is dropping.	<p>The ventilation gaps in the housing unit have been covered or become too dusty.</p> <ul style="list-style-type: none"> ■ Do not block the ventilation gaps. ■ Dust the ventilation gaps regularly.
	<p>The appliance door and the freezer compartment door have been opened too frequently, or a large amount of fresh food has been placed inside and/or frozen at the same time.</p> <ul style="list-style-type: none"> ■ Only open the appliance door or freezer compartment door when necessary and for as short a time as possible. <p>The required temperature will re-establish itself after a while.</p>
	<p>The appliance door and/or freezer compartment door are not properly closed. A thick layer of ice may have formed in the freezer compartment.</p> <ul style="list-style-type: none"> ■ Close the door. <p>The required temperature will re-establish itself after a while.</p> <p>If a thick layer of ice has formed, it will reduce efficiency and increase the energy consumption.</p> <ul style="list-style-type: none"> ■ Defrost the freezer compartment and clean it.
	<p>The ambient temperature is too high. The higher the room temperature, the longer the compressor will run for.</p> <ul style="list-style-type: none"> ■ See "Installation - Location".
	<p>The appliance was not properly installed in the niche.</p> <ul style="list-style-type: none"> ■ See "Installation - Building in the appliance".

What to do if ...



Problem	Cause and remedy
The compressor is switching on more frequently and for longer periods of time, so the temperature in the appliance is dropping.	The temperature setting is too low. ■ Adjust the temperature.
	The freezer compartment door (depending on model) is not closed properly. ■ Make sure that the freezer compartment door (depending on model) is closed properly.
	A large amount of food is being frozen at once. ■ See "Freezing and storing food".
	The Super cool function is still switched on. ■ You can switch off the Super cool function earlier to save energy: Press the Super cool button.
The compressor comes on less and less often and for shorter periods of time. The temperature in the appliance rises.	This is not a fault. The temperature is too high. ■ Adjust the temperature. ■ Check the temperature again after 24 hours.
	The food begins to defrost. The room temperature is lower than the ambient temperature for which the appliance is designed. Operating in a room which is too cold will cause the compressor to switch off for too long, causing the freezer compartment to become too warm. ■ See "Installation - Location". ■ Increase the temperature of the room.
An LED indicator light is flashing at the back of the appliance at the bottom near the compressor (depending on model).	This is not a fault. The electronic unit for the compressor is equipped with an operation and fault diagnosis LED indicator light which flashes every 15 seconds (depending on model).

Display warnings

Message	Cause and remedy
You cannot switch the appliance off.	<p>The lock is activated. The  symbol is lit up in the display.</p> <ul style="list-style-type: none"> ■ Deactivate the lock (see "Selecting settings - Activating or deactivating the lock").
The  symbol lights up in the display, the appliance does not get cold, although the controls and the interior lighting are working.	<p>Demo mode is switched on. This allows the appliance to be presented in the showroom without the cooling system being switched on. Do not activate this setting for domestic use.</p> <ul style="list-style-type: none"> ■ Contact the Miele Service Department for information on deactivating Demo mode.
"F0 to F9" appears in the display.	<p>There is a fault.</p> <ul style="list-style-type: none"> ■ Call the Miele Service Department.

What to do if ...

The interior lighting is not working.

Problem	Cause and remedy
The interior lighting is not working.	The appliance has not been switched on. ■ Switch the appliance on.
	To avoid overheating, the lighting switches itself off automatically after approx. 15 minutes if the door is left open. If this is not the case, then there is a fault.
	 Danger of electric shock. There are live electrical components under the lighting cover. The LED lighting may only be repaired or replaced by a Miele authorised service technician.
	 Danger of injury from LED lighting. Light intensity corresponds to laser beam class 1/1M. The lighting covers must not be removed or damaged, or be removed due to damage. This could cause injury to your eyes. Do not look into the LED lighting (laser beam class 1/1M) with optical instruments (e.g. magnifying glass or similar).
	■ Call the Miele Service Department.

Other problems

Problem	Cause and remedy
The floor of the refrigerator section is wet.	The condensate drain hole is blocked. ■ Clean the condensate channel and drain hole.
Food has frozen together.	The food packaging was not dry when placed in the freezer. ■ Use a blunt instrument, e.g. a spoon handle or plastic scraper, to prise it apart carefully.
The external walls of the appliance feel warm.	This is not a fault. The warmth created by the evaporator is used to prevent condensation.

Noises

Normal noises	What causes them
Brrrrr ...	A humming noise is made by the motor (compressor). This noise can get louder for brief periods when the motor switches on.
Blubb, blubb ...	A gurgling noise can be heard when coolant is circulating through the pipes.
Click ...	Clicking sounds are made when the thermostat switches the motor on and off.
Crack ...	A cracking sound can be heard when materials expand inside the appliance.
Remember that the noise of the compressor and the coolant circulating in the system is unavoidable.	

Noises	Cause and remedy
Rattling, vibrating	The appliance is uneven. Realign the appliance using a spirit level. Do so by raising or lowering the screw feet underneath the appliance or place something underneath it.
	The appliance is touching another appliance or piece of furniture. Move it away.
	Drawers or shelves are unstable or sticking. Check all removable items and refit them correctly.
	Bottles or containers are touching each other. Separate them.
	The transport cable clips are hanging loose at the back of the appliance. Remove them.

After sales service

In the event of any faults which you cannot easily remedy, please contact

- your Miele Dealer, or
- the Miele Service Department.

See end of this booklet for contact details. Please note that telephone calls may be monitored and recorded for training purposes and that a call-out charge will be applied to service visits where the problem could have been resolved as described in this booklet.

When contacting your Dealer or Miele, please quote the model and serial number of your appliance.

This information is given on the data plate inside your appliance.

Guarantee: U.K.

In the U.K. the appliance is guaranteed for 2 years from the date of purchase. However, you must activate your cover by calling 0330 160 6640 or registering online at www.miele.co.uk.

Guarantee: Other countries

For information on the appliance guarantee specific to your country please contact Miele.

See end of this booklet for contact details.

Electrical connection

The appliance is supplied with a power cable and moulded plug ready for connection to an AC 230 V 50 Hz supply.

The fuse rating must be at least 10 A (13 A in the UK).

This appliance must be connected to a suitable switched socket which is easily accessible. The electrical connection must comply with current local and national safety regulations (BS 7671 in the UK).

The accessibility of the plug must always be ensured in order to be able to quickly separate the appliance from the mains.

If the mains socket is not accessible after the appliance has been built in, a separator for each terminal must be present. There must be an all-pole contact gap of at least 3 mm in the switch (including switch, fuses and relays according to EN 60335).

The plug and mains connection cable must not come into contact with the back of the appliance as vibrations can cause damage to these components. This, in turn, could result in a short circuit.


Do not plug in other appliances behind this appliance.

Do not connect the appliance to the mains electricity supply by an extension lead. Extension leads do not guarantee the required safety of the appliance (e.g. danger of overheating).

Do not connect the appliance to an inverter such as those used with an autonomous energy source e.g. **solar power**. When switched on, peak loads in the system can cause the safety switch-off mechanism to be triggered. This can damage the electronic unit. The appliance must not be used with so-called **energy-saving devices** either. These reduce the amount of energy supplied to the appliance, causing it to overheat.

If the mains cable needs to be replaced this must be done by a suitably qualified person.

This appliance must be built in, otherwise it could tip up.

 **Fire risk and danger of damage!**
This refrigerator must not be installed underneath a hob.

Location


This appliance should be installed in a dry, well-ventilated room.

When deciding where to install your refrigerator please bear in mind that it will use more energy if installed near to a heater, a cooker or other appliance that gives off heat. Direct sunlight should also be avoided.

The higher the room temperature, the longer the compressor runs and the higher the energy consumption is.

When installing the appliance, please note:

- The socket must be easily accessible in an emergency, not concealed behind the appliance.
- The plug and cable must not touch the rear of the appliance as they could be damaged by vibrations from the appliance.
- Do not plug in other appliances behind this appliance.

 **In environments with high humidity** condensation can build up on the external appliance panels. This can lead to corrosion of the panels.

For prevention, it is advisable to install the appliance with sufficient ventilation in a dry and/or air conditioned room.

Make sure that the appliance door closes properly, the ventilation gaps are not covered and the appliance is installed in accordance with these installation instructions.

Climate range

The appliance is designed for use within a certain climate range (ambient temperatures) and should not be used outside this range. The climate range of the appliance is stated on the data plate inside the appliance.

Climate range	Ambient room temperature
SN	+10 to +32 °C
N	+16 to +32 °C
ST	+16 to +38 °C
T	+16 to +43 °C

Operating in a room which is too cold will cause the compressor to switch off for too long, causing the internal temperature in the appliance to rise with the risk of food deteriorating and going off.

Installation

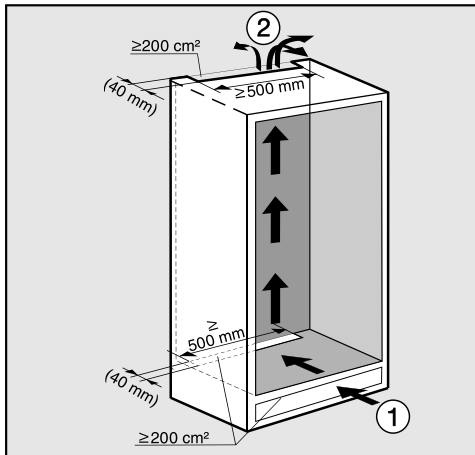
Ventilation

⚠ If the ventilation gaps given are not observed, the compressor will run more frequently and for longer periods.

This will result in increased energy consumption and a higher operating temperature for the compressor. This may, in turn, cause damage to the compressor.

It is essential to observe the ventilation gaps given.

Air at the back of the appliance gets warm. The appliance housing unit must therefore be constructed to allow sufficient space for ventilation (see "Building-in dimensions"):



- Air intake ① occurs via the plinth at the bottom of the appliance and the air escapes at the top ② at the back of the housing unit.
- A ventilation gap of at least 40 mm depth must be allowed for behind the appliance for air to circulate.

- The ventilation cross-sections in the plinth, housing unit and above the appliance must each provide an unobstructed airflow of at least 200 cm² to ensure that air can circulate without hindrance.

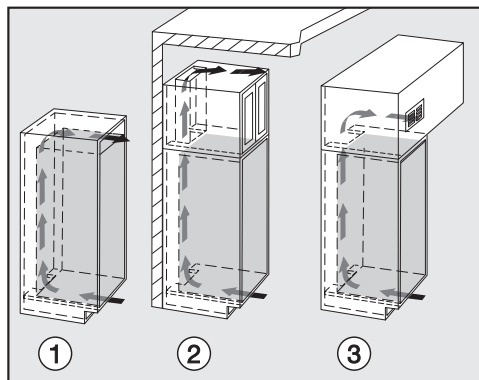
If ventilation grilles are to be inserted into the ventilation gaps, the ventilation gaps must be larger than 200 cm². The unobstructed airflow of 200 cm² is calculated by adding up the total area of ventilation openings in the grille.

- Important. The appliance uses less energy, the larger the ventilation gaps.

The ventilation gaps must not be covered or blocked in any way. They should be dusted on a regular basis.

Top ventilation gap

The ventilation gap at the top of the appliance can be constructed in different ways:



- ① directly above the appliance with a ventilation grille (free airflow of at least 200 cm²).
- ② in between the housing unit and the ceiling
- ③ through a suspended ceiling.

Furniture door panel

Horizontal and vertical gaps

Depending on the style of kitchen furniture the thickness and edge radius of the furniture door and the gap that runs around the door, vertically and horizontally, are specified.

It is essential to pay attention to the following!

– Horizontal gap

The gap between the appliance furniture door and the housing unit door above or below it must be at least 3 mm.

– Vertical gap

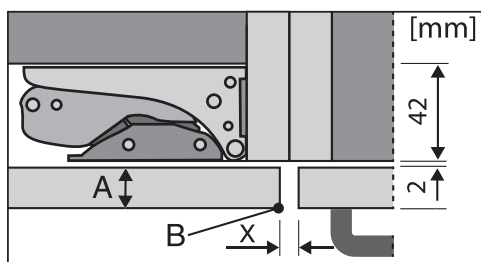
If the gap between the appliance furniture door and the adjoining housing unit door or wall on the hinged side is too small, the appliance door could collide with the adjoining housing unit door or wall when opened.

It may be necessary to adjust the size of this gap to suit the thickness and edge radius of the appliance furniture door.

This must be taken into consideration when planning your kitchen and when replacing an old appliance with a new one to ensure the installation conditions required are met.

Installation

Appliance furniture door thickness A [mm]	Gap X [mm] for different edge radii B			
	R0	R1.2	R2	R3
≥16 - 19	Min. 3			
20	5	4	4	3.5
21	5.5	5	4.5	4
22	6.5	6	5.5	5

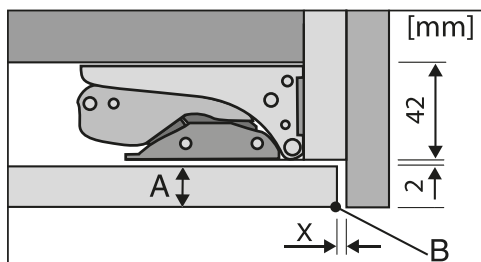


Adjoining kitchen furniture front

A = Furniture front thickness

B = Edge radius

X = Gap



Adjoining side wall

A = Furniture front thickness

B = Edge radius

X = Gap

Tip: Fit a spacer between the housing unit carcase and the side wall. This way you will get a sufficiently wide gap.

Weight of the furniture door

Fitting a door front which is heavier than the maximum permitted could damage the hinges. This can cause subsequent functional problems.

Before fitting furniture doors, ensure that the weight of the door does not exceed the maximum permitted:

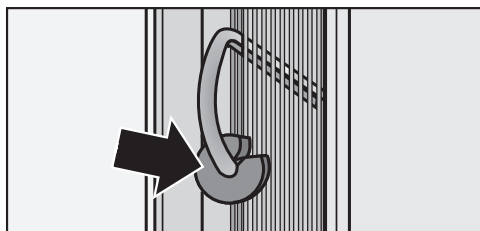
Appliance	Maximum weight of furniture door in kg
K 32222 i, K 32223 i	17
K 32242 iF, K 32243 iF	17
K 33222 i	17
K 34222 i, K 34223 i	17
K 34242 iF, K 34243 iF	17

Fitting large or divided furniture doors

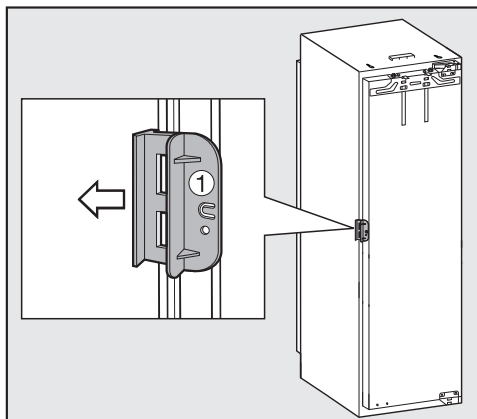
When fitting large or divided furniture doors an extra fitting kit or set of fixing brackets should be used. These are available to order from Miele.

Before installing the appliance

- Take the accessory pack which includes installation parts and other accessories out of the appliance and remove the packaging strap holding the door in place.
- **Do not remove** the following from the back of the appliance:



- The spacers (depending on model)
These ensure the gap required between the back of the appliance and the wall is maintained.
- The bags (depending on model)
located inside the metal grille (heat exchanger).
These are important for the correct functioning of the appliance. Their contents are non-toxic and are not dangerous.
- Remove the cable clip from the back of the appliance.



- Open the appliance door and remove the red safety catch ① (depending on model).

Installation

Does your old appliance have a different hinging mechanism?

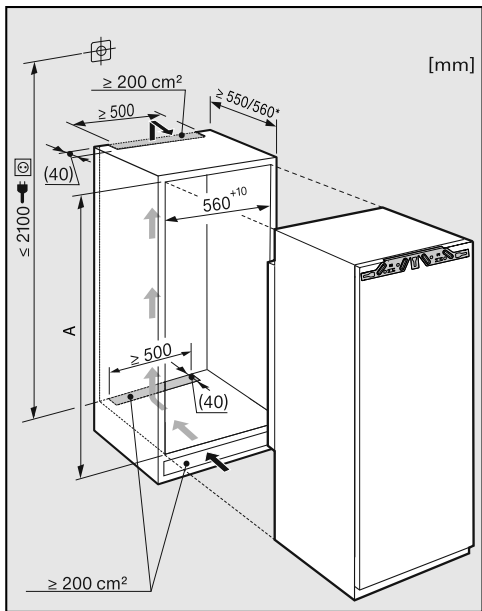
If your old appliance had a different type of hinging, the furniture door can still be used. Remove the old hinges from the housing unit. They are no longer required because the furniture door is now fitted to the appliance door. All the necessary parts are supplied or can be ordered from Miele.

Stainless steel front

(depending on model)

If your old appliance had different hinging and you cannot, or do not wish to use your old door, you can use a stainless steel front instead.

Contact Miele for information on suitable stainless steel fronts.



* The declared energy consumption was calculated in a 560 mm deep niche. The appliance is fully functional in a 550 mm niche but the energy consumption will be slightly higher.

Before installation, ensure the housing unit is the correct size. The specified ventilation cross-sections must be maintained in order to ensure the correct functioning of the appliance.

	Niche height [mm] A
K 32222 i, K 32223 i	874–890
K 32242 iF, K 32243 iF	874–890
K 33222 i	1.024–1.040
K 34222 i, K 34223 i	1.220–1.236
K 34242 iF, K 34243 iF	1.220–1.236

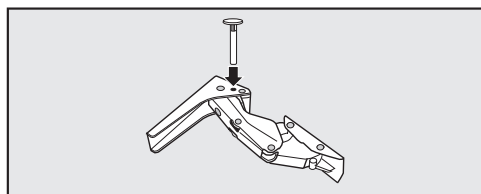
Limiting the opening angle of the door

The door hinges are set ex works to enable the door to be opened wide.

However if the opening angle of the door needs to be limited for any reason, the hinge can be adjusted to accommodate this.

If the appliance door hits an adjacent wall when opened, for example, the opening angle can be limited to approx. 90°.

The locking pins for limiting the door opening must be fitted before the appliance is installed.



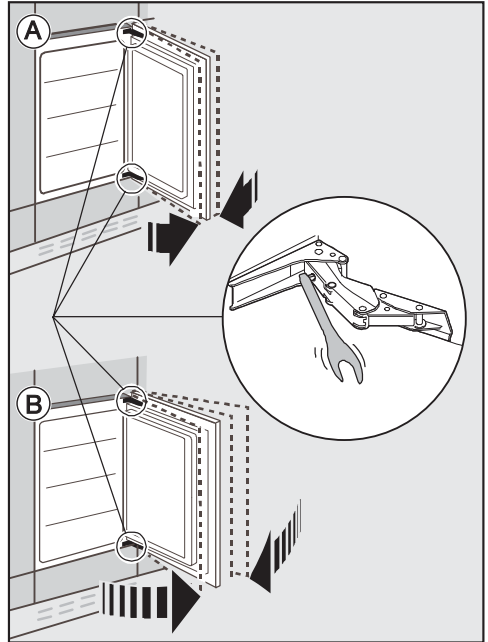
- Place the locking pins supplied for limiting the door opening into the hinges from above.

The door opening angle is now limited to approx. 90°.

Adjusting the door hinges

If you would like the appliance door to be cushioned so that it opens more softly, the spring tension on the appliance door can be adjusted.

To do this, use an allen key to adjust the door hinges.



Ⓐ To reduce the opening angle:

- Turn the Allen key clockwise.

This tightens the hinges and makes it harder to open the door wide.

Ⓑ To open the door fully:

- Turn the Allen key anti-clockwise.

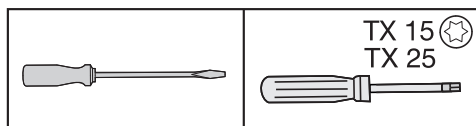
The hinge is looser, making it easier to open the door.

Changing the door hinging

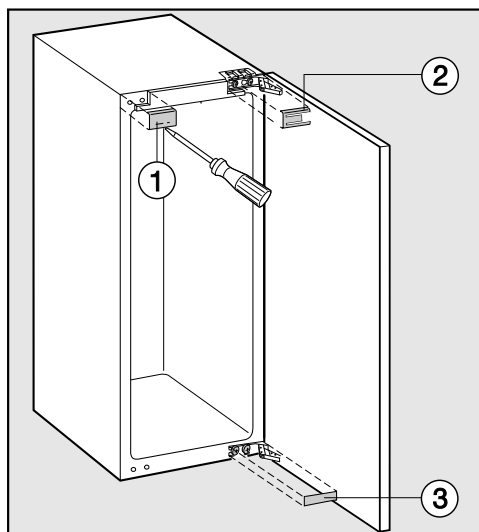
Two people are needed for changing the door hinging.

The appliance is supplied right-hand hinged. If left-hand hinging is required, the hinges must be changed.

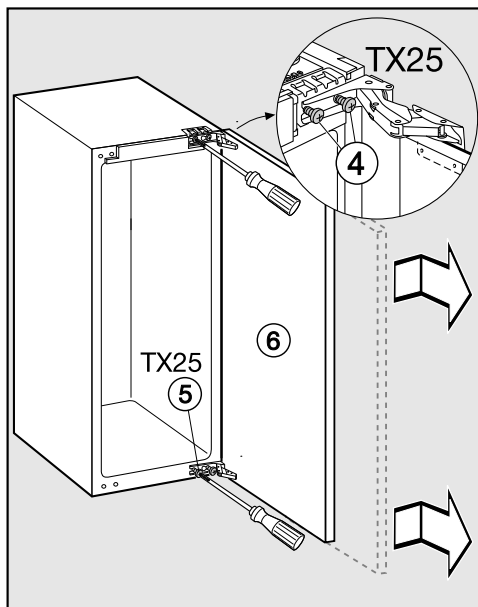
To change the door hinging, you will need the following tools:



- Open the appliance door.
- Remove the shelves/bottle shelf from the appliance door.



- Lift off covers ①, ② and ③.




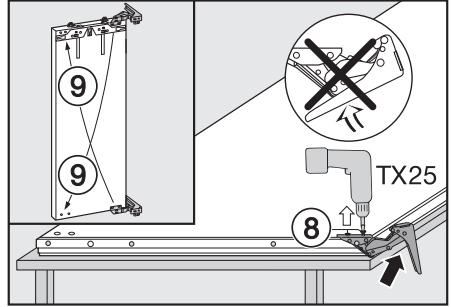
- Slightly loosen screws ④ and ⑤ in the hinges.
- Push door ⑥ outwards and take it off its hinges.

Changing the door hinging

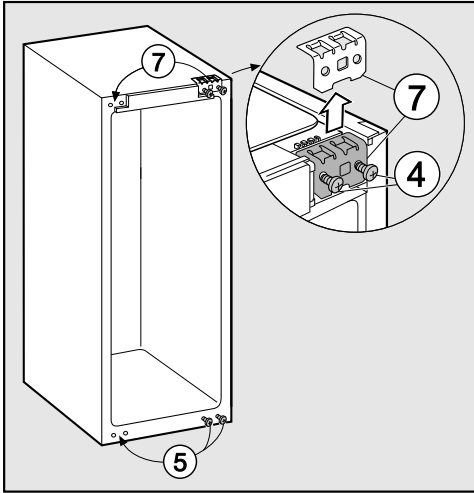
Refitting the door

- Place the door with the outer side upwards on a stable surface.

 **Danger of injury.**
Do not close the hinges.

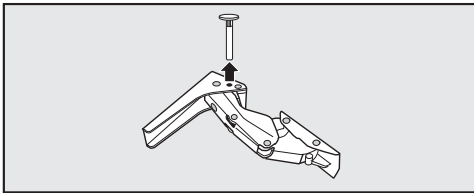


- Remove screws ⑧ completely.
- Replace the hinges in their diagonally opposite corners ⑨.



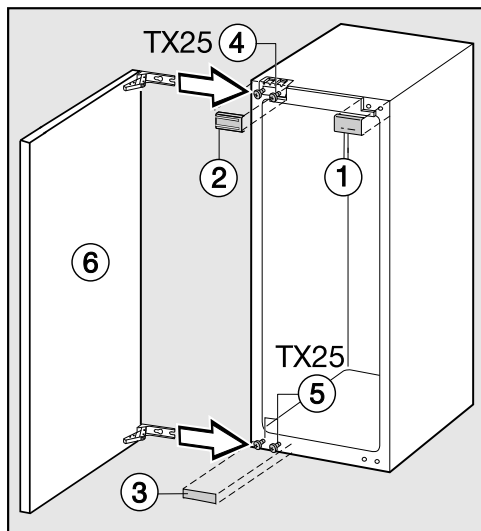
- Undo screws ④ completely.
- Fit bracket ⑦ on the opposite side and loosely fit screws ④.
- Remove screws ⑤ completely and loosely screw them in on the opposite side.

If you have put locking pins into the hinges to stop the door opening too far:

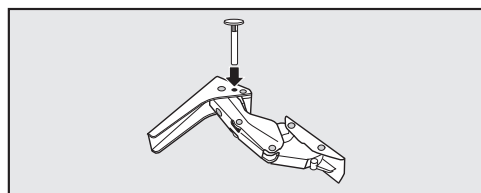


- Remove the locking pins from the top of the hinges.

Changing the door hinging

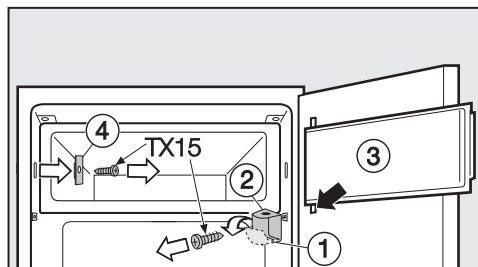


- Hang appliance door ⑥ onto pre-fitted screws ④ and ⑤, and tighten screws ④ and ⑤ securely.
- Replace covers ①, ② and ③.



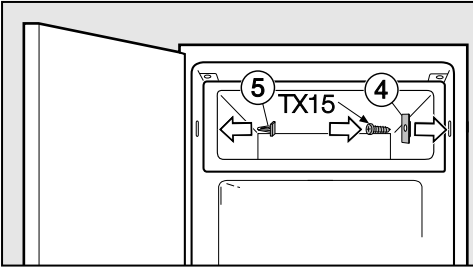
- Refit the locking pins into the top of the hinges to prevent the doors opening too far.

Changing the hinging of the freezer compartment door

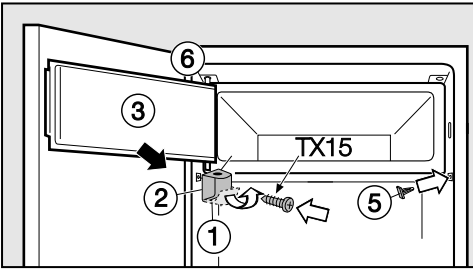


- Open the freezer compartment door ③.
- Flip the cover on bearing block ① down.
- Unscrew bearing block ② and take off the freezer compartment door ③ together with the bearing block.
- Unscrew door catch ④.

Changing the door hinging



- Screw door catch ④ into place on the opposite side, having turned it by 180 °C.
- Plug the holes with stoppers ⑤ supplied.

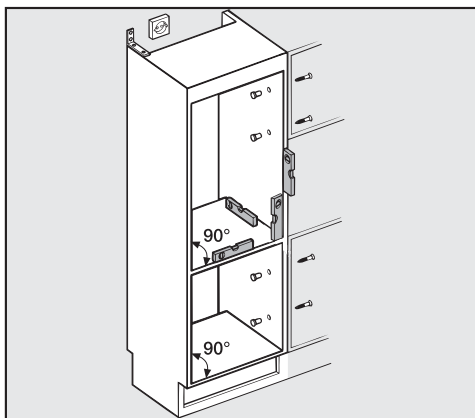


- Fit bearing block ② together with freezer compartment door ③ in position at the top ⑥, then tighten bearing block ② securely.
- Flip the cover on bearing block ① back up.

Installing the appliance

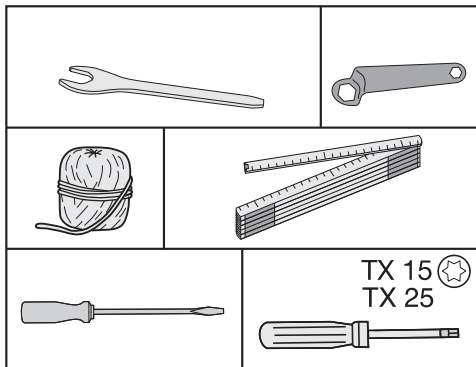
Two people are required for installing the appliance.

- Install the appliance in a stable, solid housing unit, positioned on an even and level floor.
- Secure the housing unit against tipping.



- Use a spirit level to align the housing unit. The corners of the housing unit must be at a 90° angle to each other, otherwise the furniture door will not align correctly with all 4 corners of the housing unit.
- The required ventilation cross-sections must be ensured (see "Installation - Ventilation" and "Building-in dimensions").

To install the appliance, you will need the following tools:

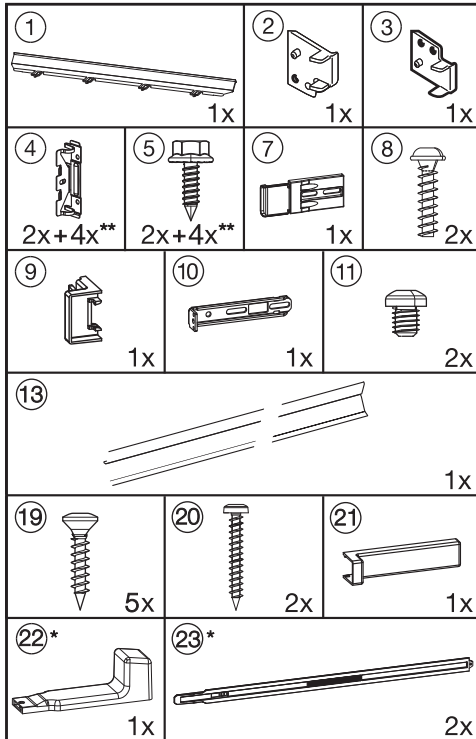


Installing the appliance

Parts required for installation

All installation parts are number coded. This coding is also used in the installation instructions.

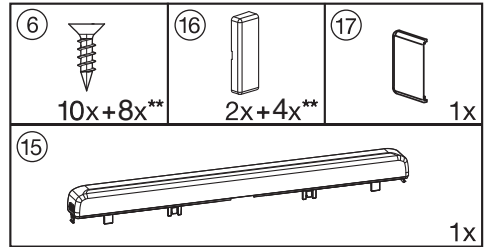
– required for installing the appliance in its housing unit:



* These parts are only supplied with appliances with a niche height of 140 cm or more.

** Number depending on niche height. Also contains additional installation parts for fitting large or divided furniture doors.

– required for fitting the furniture door:



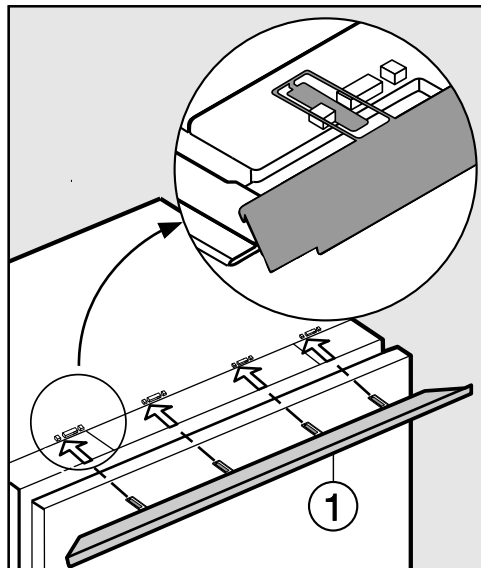
** Number depending on niche height. Also contains additional installation parts for fitting large or divided furniture doors.

All fitting instructions given are for a **right-hand hinged** appliance. If you have converted the appliance to left-hand hinging, you will need to adapt these instructions accordingly.

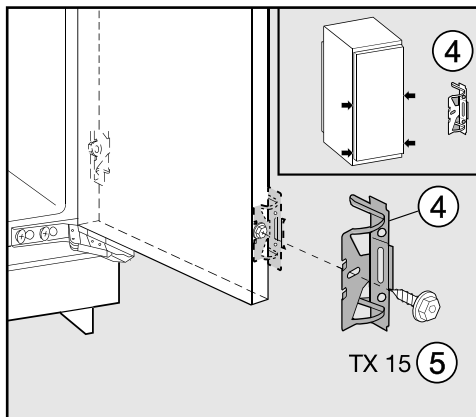
Installing the appliance

Preparing the appliance

- Position the appliance in front of the housing unit.



- Fit cover strip ① into position.



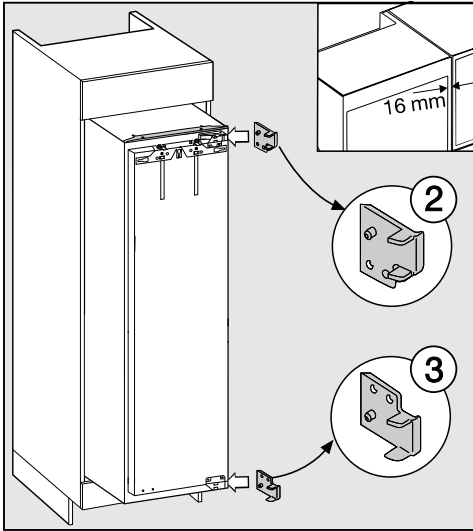
- Screw fixing bracket ④ into the pre-drilled holes in the appliance door using hexagonal screw ⑤.
- Screw a second pair of fixing brackets securely ④ into the handle area of the door. Use the pre-drilled holes in the appliance door.
- Push the appliance two-thirds of the way into its niche. When doing this, make sure that the mains cable does not get trapped.

Tip: To help you push it into position, tie a piece of string around the plug to "increase" the length of the connection cable.

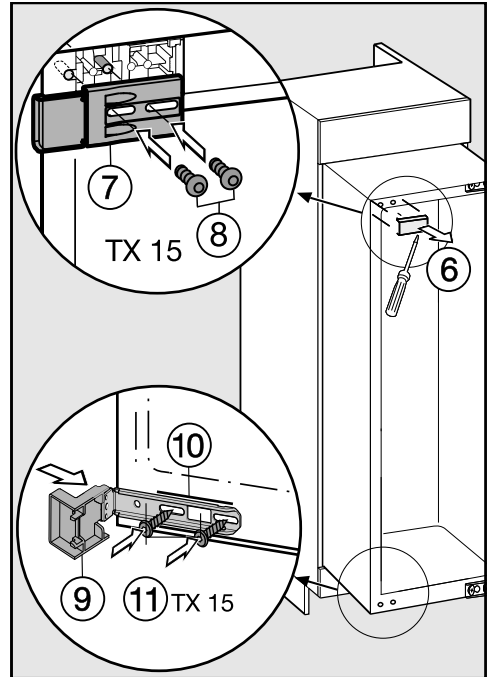
Then pull the cable by the end of the string through the housing unit. It will then be easier to connect once the appliance is in the unit.

Installing the appliance

With 16 mm thick unit walls:

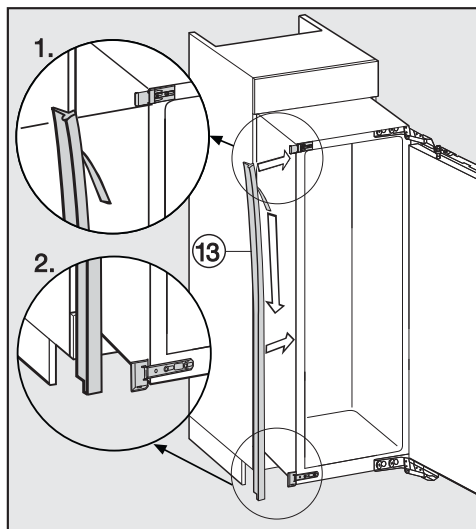


- Clip spacers ② and ③ on the right-hand side of the hinges.
- Open the appliance door.



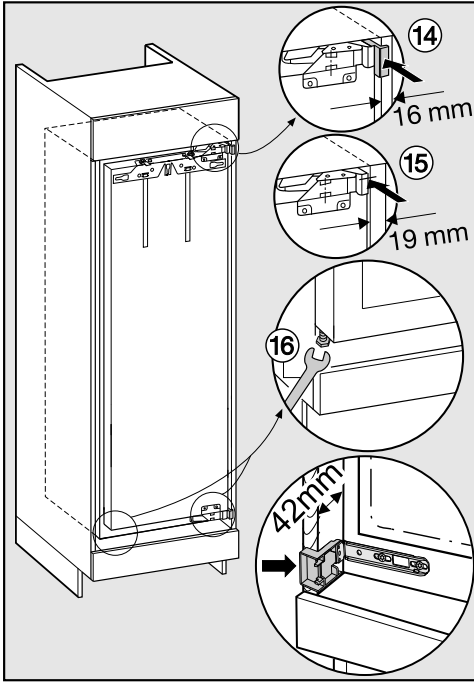
- Remove cover ⑥.
- Secure part ⑦ using screws ⑧ loosely into the top left-hand side of the appliance. Do not tighten the screws so that you can adjust the position of this part.
- Fit stopper ⑨ onto fixing bracket ⑩.
- Then screw fixing bracket ⑩ using screws ⑪ loosely into the bottom of the appliance. Do not tighten the screws so that you can adjust the position of this part.

Installing the appliance



- Carefully remove the protective foil from sealing strip ⑬.
 - Fix sealing strip ⑬ flush with the front of the appliance on the door opening side.
1. Position the sealing strip flush with the lower edge of the top fixing.
 2. Stick it down along its entire length.

Installing the appliance.



- Push the appliance into the niche until all fixing brackets are in line with the front edge of the furniture side wall.

- **⑭ With 16 mm thick walls:**
The spacers should touch the front edge at the top and bottom of the side walls of the housing unit.
- **⑮ With 19 mm thick walls:**
The front edges of the top and bottom hinges should be flush with the front edge of the housing side wall.

- Check the position of the fixing bracket at the top and bottom front edge of the furniture side wall again.

This will create a gap all round of **42 mm** to the front edges of the housing unit side walls.

On furniture with door fittings (e.g. stubs, seals etc.) the dimension of these must be taken into account when making sure there is a gap all round of **42 mm**.

- Pull the appliance forwards by the appropriate dimension.

The hinges and covers will now protrude by the dimension of the door fitting.

Tip: Remove the door fittings. This will ensure that the door is flush with the surrounding kitchen unit furniture doors.

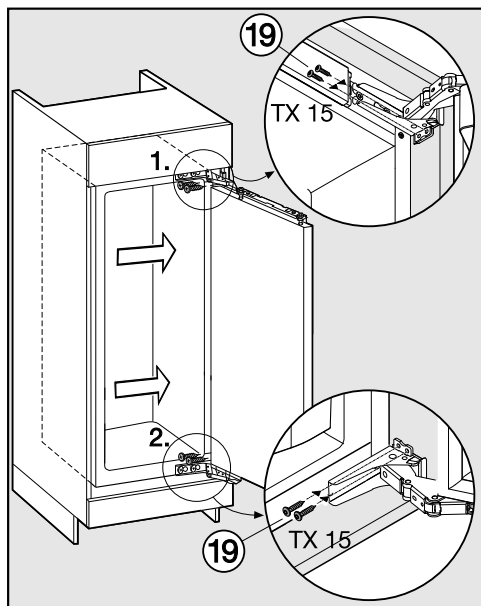
- **⑯** Align the appliance on both sides by altering the adjustable feet using the spanner supplied.

If the all round gap of 42 mm is not maintained between the appliance housing and the front edge of the housing unit side wall, the door may not shut properly.

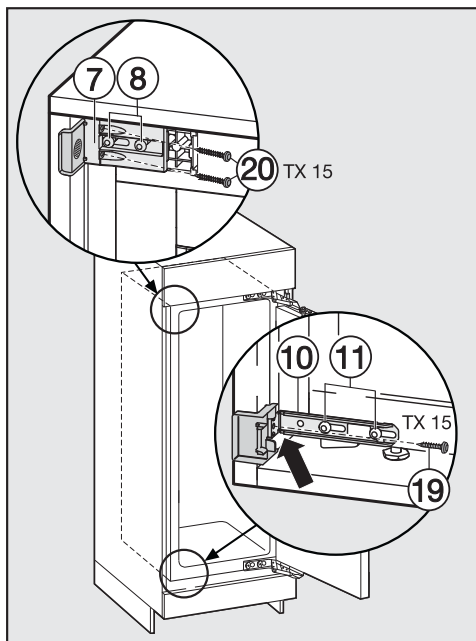
This can cause ice to build up, condensate to accumulate and lead to faults in the appliance. These can all lead to increased energy consumption.

Installing the appliance

Securing the appliance in the niche

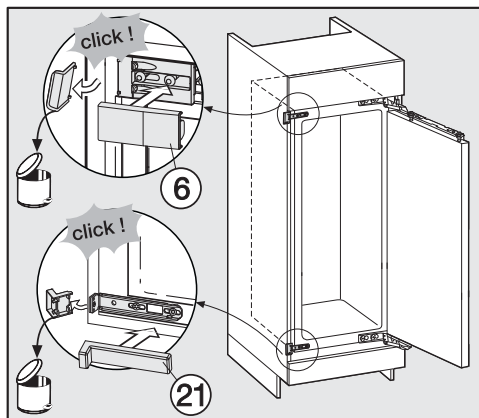


- Press the appliance against the side of the housing unit on the hinge side.
- Screw chipboard screws (19) through the hinge plates at the top and bottom to secure the appliance to the housing unit.



- Push the loose bracket against the furniture wall.
- Secure fixing bracket (10) to the housing unit side wall with screw (19). Drill holes in the housing unit side walls if necessary.
- Secure fixing bracket (7) to the housing unit side walls using screws (20). Drill holes in the housing unit side walls if necessary.
Important: Push the protruding bracket using your thumb towards the housing unit wall whilst tightening the screws. The appliance must not pull back into the unit.
- Re-tighten screws (8) and (11).

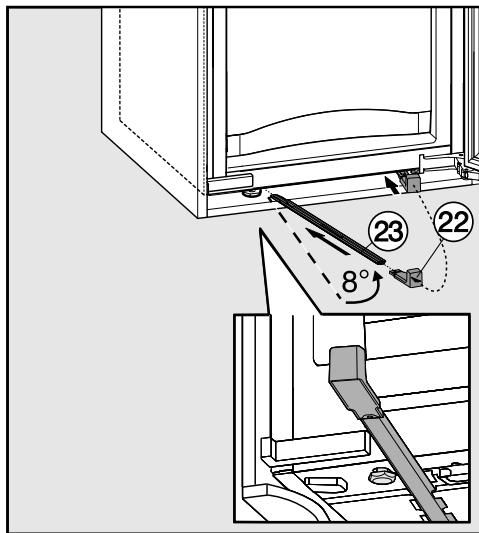
Installing the appliance



- Snap off any protruding ends from the fixing bracket. They are no longer required.
- Replace covers ⑥ and ②① on the fixing brackets.

Only for an appliance with a niche height greater than 140 cm

For additional stability of the appliance in the unit, push the rods supplied underneath the appliance between it and the floor of the housing unit:



- Then secure handle ②② to one of the rods ②③.
- Use the handle to push the rod into the guide as far as it will go. Remove the handle and fit it to the other rod and push this into its guide as far as it will go.
Important. Keep the handle somewhere safe in case you ever need to fit the appliance into a new housing unit.
- Close the appliance door.

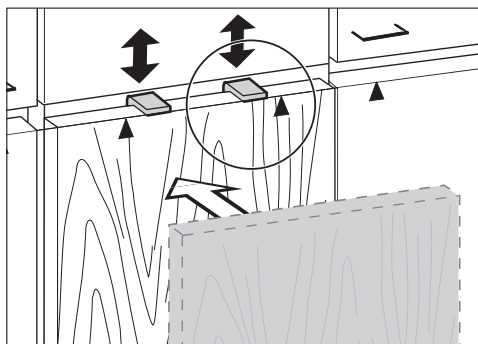
Installing the appliance

Fitting the furniture door

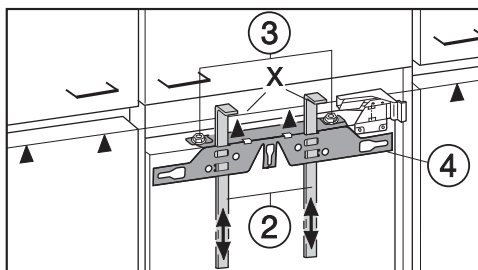
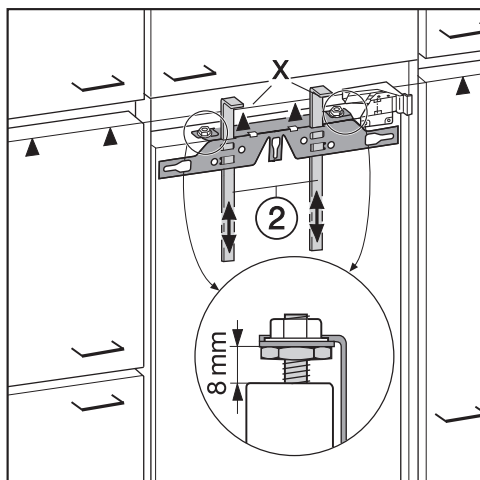
If fitted in a run of units make sure that the top edge of the furniture door is at the same height as neighbouring unit doors.

The furniture door must be fitted correctly and not under tension.

The next section gives instructions on how to fit a furniture door that is at least 16–19 mm thick.



Tip: Push fitting aids ② together with the furniture front up to the height of the adjoining unit furniture doors.

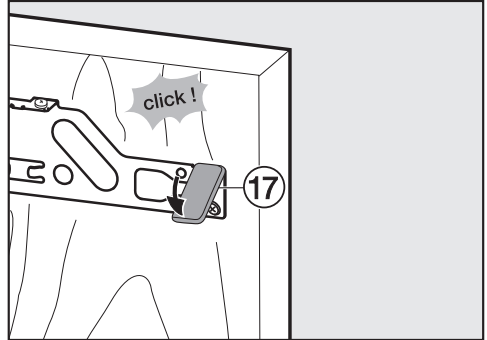
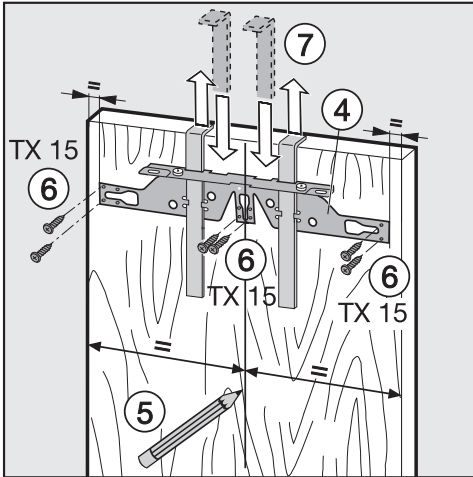


■ Undo nuts ③ and take fixing bracket ④ off together with fitting aids ②.

- A gap of 8 mm is set ex-works between the appliance door and the fixing bracket. Double check this gap and reset it if necessary.
- Push fitting aids ② up to the height of the furniture door: the lower edge X of the fitting aids must be at the same height as the upper edge of the furniture door being fitted (see ▲ on the diagram).

Installing the appliance

- Place the furniture door with the outer side downwards on a stable surface.

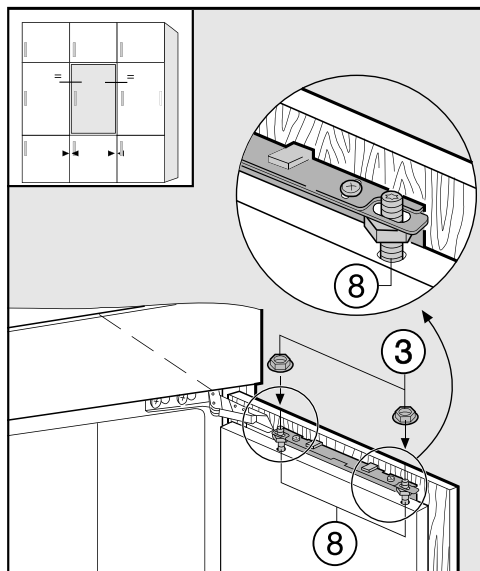


- Using a pencil, lightly mark a line down the centre of the inside of the furniture door (5).
- Hang fixing bracket (4) with the fitting aids onto the **inside** of the furniture door. Align the fixing bracket centrally.
- Attach the fixing bracket securely using at least 6 short chipboard screws (6). (On cassette doors only use 4 screws on the edges). Drill holes in the furniture door if necessary.
- Pull the fitting aids upwards to remove them (7).
Turn them around and fit them into the middle slots on the fixing bracket for safe keeping.

- Fit side cover (17) to the fixing bracket on the opposite side of the hinge.
- Turn the furniture door over and attach the handle (if required).

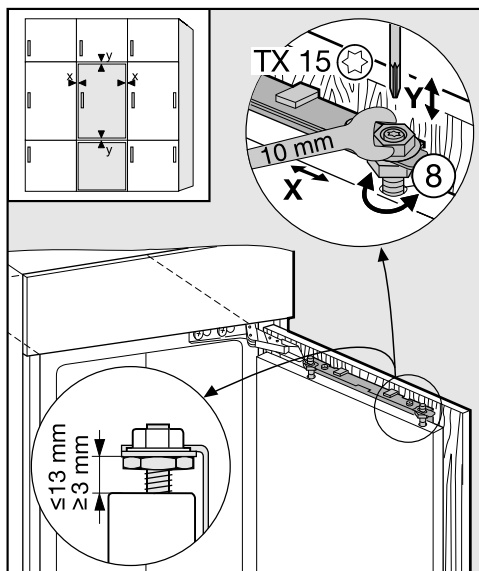
Installing the appliance

- Open the appliance door.



- Hang the furniture door onto adjusting bolts (8).
- Loosely attach nuts (3) on the adjusting bolts.
- Close the door and check the distance between the door and neighbouring furniture doors. The gaps should be even.

Aligning the door



- Side adjustments (X)

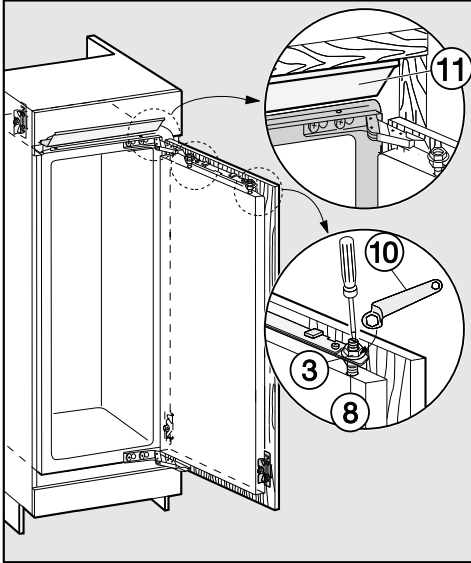
- Slide the furniture door.

- Height adjustment (Y)

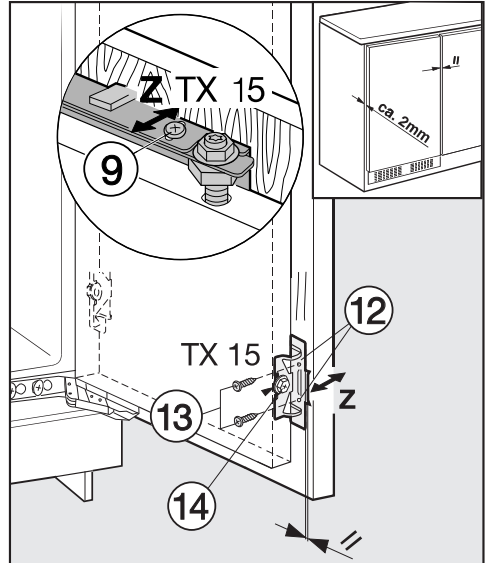
- Use a screwdriver to adjust bolts (8).

A gap of 8 mm is set ex-works between the appliance door and the fixing bracket. This must only be adjusted within its permitted range.

Installing the appliance



- Whilst counterholding adjusting bolts (8) with a screwdriver, tighten nuts (3) on the appliance door with ring spanner (10).
- Cover strip (11) must be completely hidden in the niche, and must not protrude.



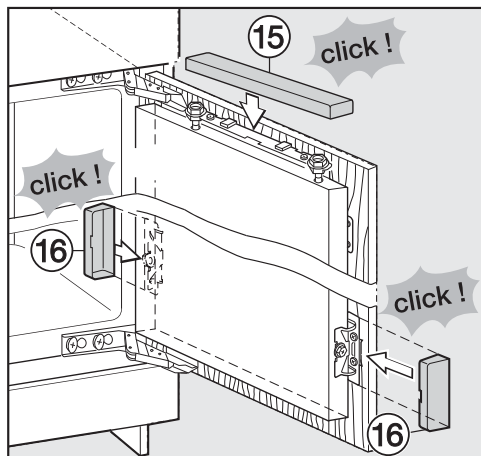
- Drill holes (12) in the furniture door and fit screws (13). Make sure the two metal edges are aligned (Symbol //).
- Close the appliance door and the furniture door.

- Depth adjustment (Z)

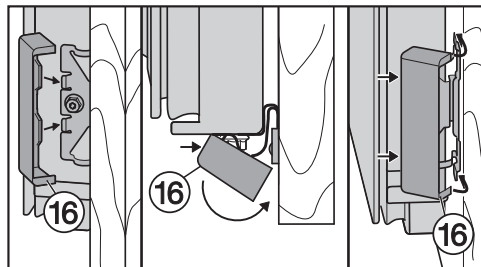
- Loosen screws (9) at the top of the appliance door, and screw (14) on the fixing bracket at the bottom. By moving the furniture door, create a gap of 2 mm between the furniture door and the housing unit.

Installing the appliance

- Tighten all screws again.



- Replace top cover ⑮, and click it into place.



- Replace side covers ⑮, making sure you hear them click into place.

To make sure the appliance is correctly fitted:

- The door must close properly.
- The door must not touch the housing unit.
- The seal at the top edge of the handle side must fit properly.
- To double check place a torch in the appliance and close the door. Turn the lights out in the room. If you can see any light shining out from the sides double check the installation.

United Kingdom

Miele Co. Ltd.
Fairacres, Marcham Road
Abingdon, Oxon, OX14 1TW
Customer Contact Centre Tel: 0330 160 6600
E-mail: mielecare@miele.co.uk
Internet: www.miele.co.uk

Australia

Miele Australia Pty. Ltd.
ACN 005 635 398
ABN 96 005 635 398
1 Gilbert Park Drive, Knoxfield, VIC 3180
Tel: 1300 464 353
Internet: www.miele.com.au

China

Miele (Shanghai) Trading Ltd.
1-3 Floor, No. 82 Shi Men Yi Road
Jing' an District
200040 Shanghai, PRC
Tel: +86 21 6157 3500, Fax: +86 21 6157 3511
E-mail: info@miele.cn, Internet: www.miele.cn

Miele (Hong Kong) Limited

41/F - 4101, Manhattan Place
23 Wang Tai Road
Kowloon Bay, Hong Kong
Tel: (852) 2610 1025, Fax: (852) 3579 1404
Email: customerservices@miele.com.hk
Website: www.miele.hk

India

Miele India Pvt. Ltd.
Ground Floor, Copia Corporate Suites
Plot No. 9, Jasola, New Delhi - 110025
Tel: 011-46 900 000, Fax: 011-46 900 001
E-mail: customercare@miele.in, Internet: www.miele.in

Ireland

Miele Ireland Ltd.
2024 Bianconi Avenue
Citywest Business Campus, Dublin 24
Tel: (01) 461 07 10, Fax: (01) 461 07 97
E-Mail: info@miele.ie, Internet: www.miele.ie

Manufacturer: Miele & Cie. KG

Carl-Miele-Straße 29, 33332 Gütersloh, Germany

Miele

Malaysia

Miele Sdn Bhd
Suite 12-2, Level 12
Menara Sapura Kencana Petroleum
Solaris Dutamas No. 1, Jalan Dutamas 1
50480 Kuala Lumpur, Malaysia
Phone: +603-6209-0288
Fax: +603-6205-3768

New Zealand

Miele New Zealand Limited
IRD 98 463 631
Level 2, 10 College Hill
Freemans Bay, Auckland 1011, NZ
Tel: 0800 464 353
Internet: www.miele.co.nz

Singapore

Miele Pte. Ltd.
163 Penang Road
04 - 03 Winsland House II
Singapore 238463
Tel: +65 6735 1191, Fax: +65 6735 1161
E-Mail: info@miele.com.sg
Internet: www.miele.sg

South Africa

Miele (Pty) Ltd
63 Peter Place, Bryanston 2194
P.O. Box 69434, Bryanston 2021
Tel: (011) 875 9000, Fax: (011) 875 9035
E-mail: info@miele.co.za
Internet: www.miele.co.za

United Arab Emirates

Miele Appliances Ltd.
Gold & Diamond Park
Office No. 6-217, Sheikh Zayed Road
P.O. Box 11 47 82 - Dubai
Tel. +971 4 3044 999
Fax. +971 4 3418 852
800-MIELE (64353)
E-Mail: info@miele.ae
Website: www.miele.ae

K 32222 i, K 32223 i, K 32242 iF, K 32243 iF, K 33222 i, K 34222 i, K 34223 i, K 34242 iF, K 34243 iF