

Glassline



■ BWH 90 GL

Document information

Operating and installation instructions for:

- Glassline wall hood BWH 90 GL E02
- Original instructions.
- Part of the product.
- Copyright protected.
- Duplications, re-printing and distribution only with permission.
- Subject to alteration.

Safety information

⚠ DANGER!

Notes with the word DANGER warn of a hazardous situation that results in serious injuries or death.

⚠ WARNING!

Notes with the word WARNING warn of a hazardous situation that could result in serious injuries or death.

⚠ CAUTION!

Notes with the word CAUTION warn of a situation that could result in minor injuries.

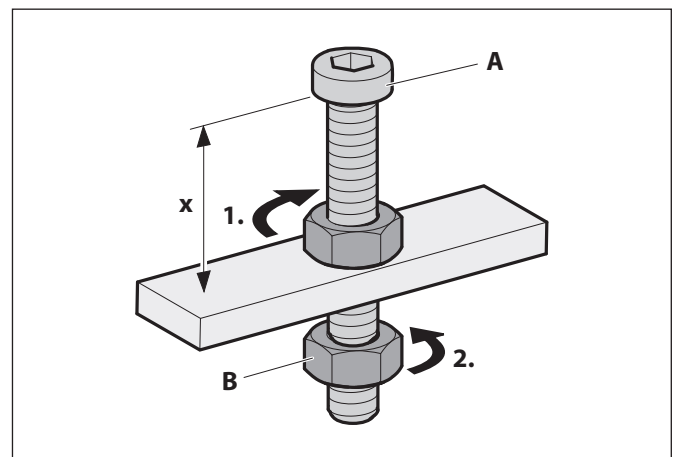
⚠ ATTENTION!

Notes with the word ATTENTION warn of a situation that could result in damage to property or to the environment.

Symbol clarification - text

- 📖 Handling requirement
- Listing
- ⇒ Reference to another point in this document
- 📄 Reference to other documents that should be observed

Symbol clarification - illustrations



- Highlighting of the parts involved in the action with shading

1. Handling steps with numbering

A Part designations with upper case characters

x Dimensions with lower case characters or units in mm

↪ Movement and direction arrows

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1. Safety information

1.1 Proper intended use

The device serves to extract cooking vapours.
The device is intended exclusively for private domestic use.
The device must only be used with original filters from the manufacturer.

It is only permitted to use the device when it is in technically flawless condition and after correct installation.
Any other use shall be considered improper use.

Reading and observing this manual are also part of the proper use of the device.

1.2 Authorised target groups

Electrical work only to be undertaken by qualified electricians per DIN VDE 0100. Requirements on qualified electricians:

- Knowledge of the basics of electrics.
- Knowledge of country-specific regulations and standards (e.g. in Germany, DIN VDE 0100, part 701).
- Knowledge of the applicable safety regulations.
- Knowledge of the relevant legal requirements for gas installations (e.g. in Germany the technical rules for gas installations TRGI).
- Knowledge of this manual.

Installation and repair only by qualified specialist personnel.
Requirements on qualified specialist personnel:

- Knowledge of the regulations on safety at work.
- Knowledge of fastening systems.
- Basic knowledge of ventilation systems.
- Experienced in using electrical and mechanical tools.
- Ability to read technical drawings.
- Knowledge of this manual.

Operation, cleaning and maintenance by the user.

Requirements for the user:

- Knowledge of this manual.

There are separate requirements for the following users:

- Children from 8 years and older.
- Persons with restricted physical, sensory or mental capabilities.
- Persons with a lack of experience and knowledge.

These users are only permitted to carry out operation, cleaning and maintenance. Special requirements:

- Users are supervised.
- Users are instructed with regard to safe use of the device.
- Users understand the hazards involved with the device.
- Children may not play with the device.

1.3 General safety instructions

WARNING!

Hazard through a disregard of the operating and installation instructions!

This manual contains important information for the safe handling of the device. Separate reference is made to possible hazards.

-  Read through this manual thoroughly.
-  Follow the safety instructions in this manual.
-  Store the manual in an accessible location.

Naked flames can damage the device and can cause fires.

- Gas operation only with low gas flames (not rising above the edge of the base of the pots).
- Do not flambé underneath the device.
- No unattended deep frying underneath the device.

The use of the device is forbidden under the following circumstances:

- If necessary safety devices are missing (e.g. with simultaneous use of a heating point which uses air from the room as its oxygen supply).
- If essential approvals are missing (e.g. from chimney sweeps).
- In potentially explosive atmospheres.
- If the device or individual components are damaged.
- In the event of unauthorised alterations or changes to the device.
- If liquid has penetrated the device.
- When heavily soiled.
- For children under 8 years old and persons who would not be able to properly assess the hazards associated with handling the device.

The manufacturer accepts no liability for damage occurring in the following circumstances:

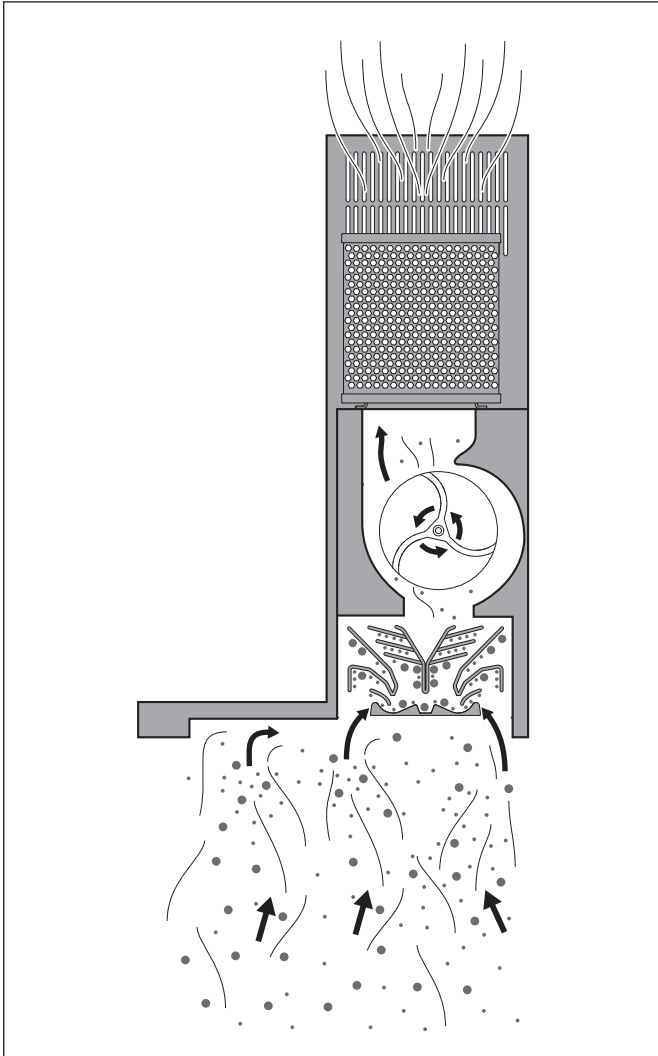
- Disregard of this manual.
- Improper use of the device.
- Improper installation and handling of the device.
- Use of the device by unauthorised target groups.
- Bypassing safety equipment on the device.
- The use of spare parts (e.g. mains cables) that were not produced or approved by the manufacturer.

Further safety instructions can be found in the respective relevant chapters of this manual.

- ⇒ "3.1 Safety instructions for installation" (page 8).
- ⇒ "4.1 Safety instructions for operation" (page 19).
- ⇒ "5.1 Safety instructions for cleaning" (page 23).
- ⇒ "6.1 Safety instructions for maintenance" (page 25).

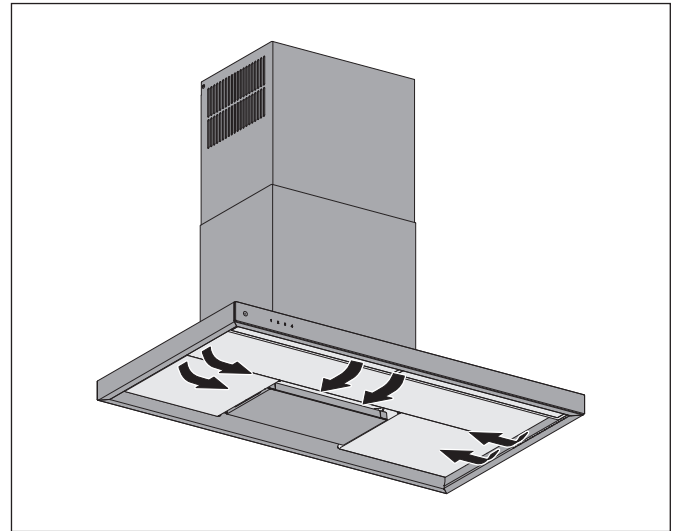
2. Product information

2.1 Functional principle



Centrifugal force

- Cooking vapours are drawn through a gap and into the hood where they are accelerated and routed through bends.
- The resultant centrifugal force ejects particles of dirt (e.g. particles or grease and oil) out of the air.
- The dirt particles are separated out and collected on the lower section and at the separating unit.



BackFlow technology (optional)

- Condensate or droplet formation on the extractor hood (e.g. if steam touches the cold surface) is prevented by the ventilation of the hood underside.
- Part of the vented air quantity is blown from the front and sides over the hood underside and directed into the suction gap.

2.2 Operating modes

The device is suitable for the following operating modes:

- Recirculated air mode
- Extracted air mode
- Hybrid mode

2.2.1 Recirculated air mode

The filter filling in the recirculated air filter neutralises any smelly odours present. The odour-free, cleaned room air is fed back into the room. The humidity in the room can be reduced with the fresh air feed.

In recirculated air mode, it is necessary to use the run-on function so that the device can remove the remaining odours. Using the run-on function increases the life of the filter filling. The filter filling must be replaced at regular intervals.

2.2.2 Extracted air mode

The cleaned room air can be routed to the outside via the building structure (e.g. ducting, chimney).

With extracted air mode an adequate fresh air supply is required. The device can only extract the amount of air to the outside that is present in the room or which is drawn into the room.

2.2.3 Hybrid mode

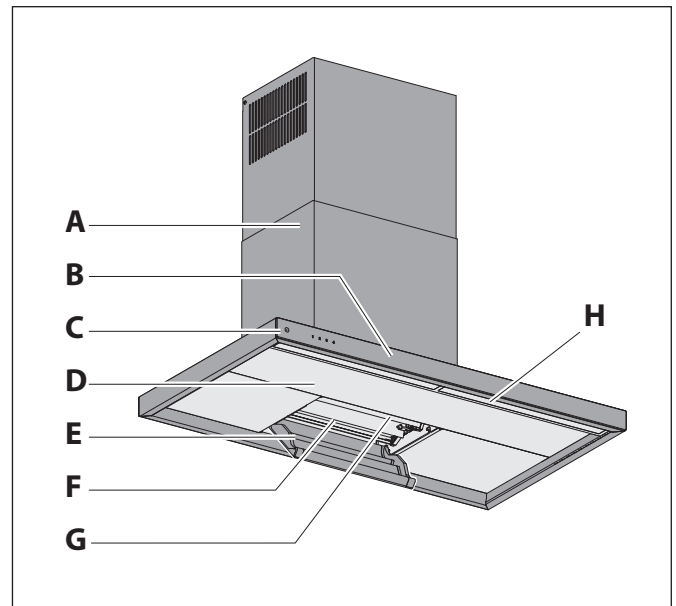
In hybrid mode, it is possible to select flexibly between recirculated air mode and extracted air mode.

In extracted air mode, the cleaned room air is routed to the outside through the wall box which opens automatically. Extracted air mode is recommended in summer or with particularly intensive frying.

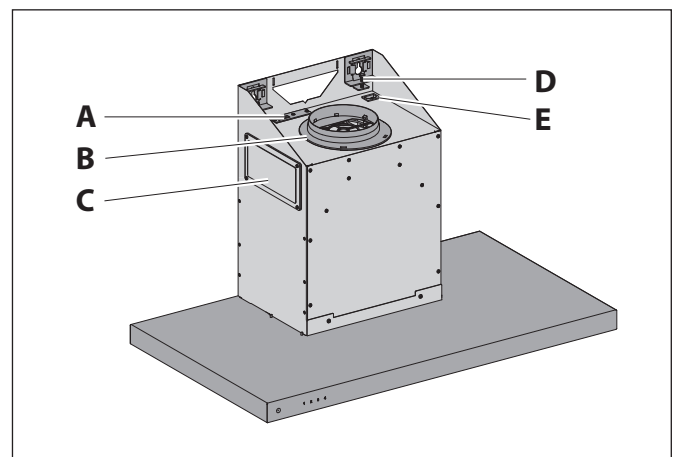
In recirculated air mode the wall box remains closed. The filter filling in the hybrid filter neutralises any smelly odours present. The odour-free, cleaned room air is fed back into the room.

The recirculated air mode is recommended in winter if no warm room air is to be surrendered to the outside.

2.3 Product overview

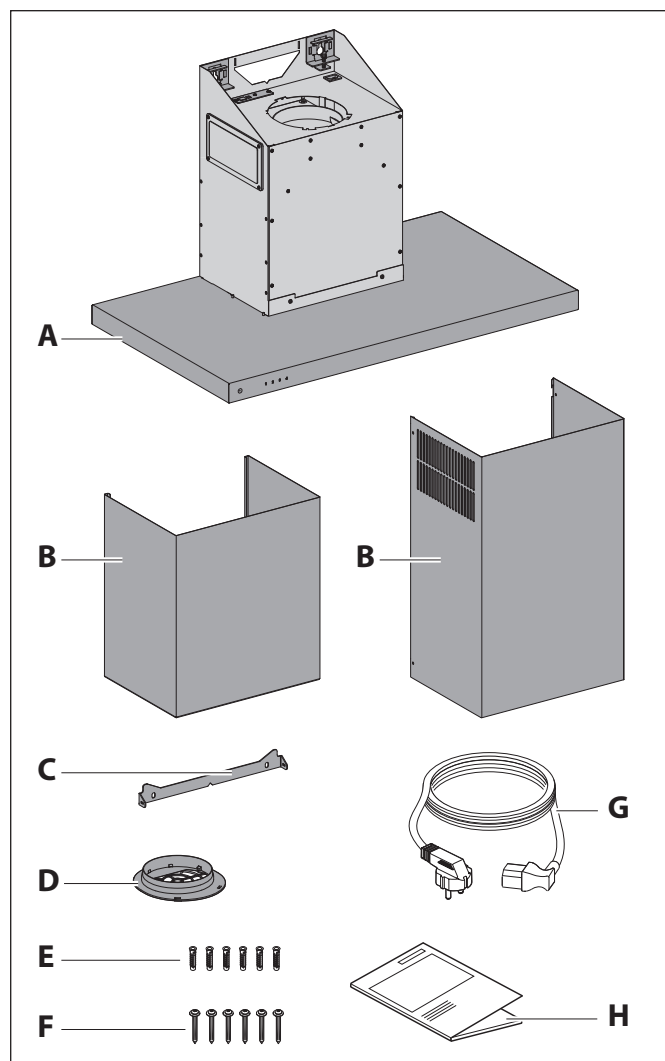


- A Chimney
- B Hood body
- C Control panel
- D Lower section of the hood body
- E Lower section (removable)
- F Separating unit (removable) consisting of centrifugal separation and catchment screen ("Capillar Trap")
- G Ratings plate (in the air induction shaft of the separating unit)
- H Hob lighting



- A Sockets for accessories
- B BackFlow port (with use of the BackFlow technology)
- C Control box
- D Adjusting screws for alignment
- E Socket for the mains cable

2.4 Scope of delivery



- A Hood body
- B Chimney (two-part, can be pulled apart)
- C Chimney fastening
- D BackFlow port¹
- E 6 nylon wall plugs 8 mm
- F F6 Torx screws TX30 with integrated washer
- G Mains cable with plug and cold device plug
- H Operating and installation instructions

¹ Assembly only with use of the BackFlow technology.

The fastening materials are only suitable for solid walls and ceilings.

Further accessories may be required depending on the operating mode.

2.5 Technical data

	BWH 90 GL E02
Connection voltage	230 V / 50 Hz
Total power	179 W
Fan power consumption	170 W
Lighting	LED 8.4 W, 384 lx
Colour temperature, adjustable	2700 - 6500 K
Width	900 mm
Depth	520 mm
Height in recirculated air mode with recirculated air filter BUF 150 +	710 - 1035 mm
Height in recirculated air mode with recirculated air filter permalyt	825 - 1035 mm
Height in extracted air mode	645 - 895 mm
Height in hybrid mode – Exhaust air upwards	875 - 1035 mm
Height in hybrid mode – Exhaust air to the rear	740 - 1035 mm
Net weight	27.9 kg

Information about energy consumption can be found in the product data sheet.

⇒ "9.1 Product data sheet" (page 30).

Specifications for the model (e.g. serial number, year of construction) can be found on the ratings plate.

⇒ "2.3 Product overview" (page 6).

3. Installation

3.1 Safety instructions for installation

WARNING!

Hazard through disregard of the installation instructions!

This chapter contains important information for the safe installation of the device.

-  Read through this chapter carefully before installing the device.
-  Follow the safety instructions.
-  Carry out the installation as described.

- Installation only by qualified specialist personnel.
⇒ "1.2 Authorised target groups" (page 4).
- Electrical work must only be undertaken by qualified electricians.
⇒ "1.2 Authorised target groups" (page 4).
- Installation requires two persons.
- When working at heights, ensure good stable footing (e.g. stable stepladder).
- The hob and other parts that can be touched must be allowed to cool prior to installation.
- Store the film or other parts of the packaging in a location which is inaccessible to children.
- The device must be in an undamaged and fault-free condition prior to installation.
- Cables must not be kinked, crushed or damaged.
- Never open the fan housing.
- It is not permissible to attach further components (e.g. panels, air ducts) to the device.
- The power supply voltage must match the voltage information quoted on the ratings plate.
⇒ "2.5 Technical data" (page 7).
- Ensure that the power supply is stable and remains so prior to the installation.
Connect the power supply only when instructed to do so in the installation instructions.

3.2 Requirements for the installation location

WARNING!

Risk of death due to improper installation!

Disregard of the ambient conditions can lead to hazardous situations, e.g. in the handling of electrical power or gas.

-  Make sure that the requirements for the installation location are complied with.

- Do not install in potentially explosive atmospheres.
- With simultaneous use of a heating point which uses air from the room as its oxygen supply (e.g. chimneys):
 - A safety device is absolutely essential.
 - The safety device must prevent gases being drawing to the room.
 - It is essential to ensure that the negative pressure in the heating point installation room does not exceed 4 Pa.
 - An approval for commissioning (e.g. from a chimney sweep) must be available.
- Installation is only permitted on structural building elements capable of bearing the load (solid structure).
- If it is necessary to break through the wall:
A wall break-through influences the structural integrity of the building. This work must only be carried out by a specialist.
- If installed above fireplaces that use solid fuels (e.g. coal stove):
The fireplace must have a sealed cover which cannot be removed. Otherwise there is a fire risk due to flying sparks. Applicable legal and country-specific regulations must be observed.
- The air flowing out must be able to dissipate unimpeded. Do not impede the air flow, e.g. through the installation of objects on or above the device.
- Make sure that the building electrical supply is properly earthed.
- The power supply voltage present must match the voltage information quoted on the ratings plate.
- There must be an electrical power outlet in the vicinity of the hood installation.
- The mains plug must be accessible after the installation of the hood. Alternatively, all-pole isolating device (with a contact gap of at least 3 mm) must be provided.

-  Country-specific, legal provisions must be observed.

Installation

3.3 Requirements for individual operating modes

Further accessories may be required depending on the operating mode.

3.3.1 Requirements for recirculated air mode

- Recirculated air fan on the fan outlet.
- Cross-section of the ventilation slot in the superstructure larger than 300 cm².
- Filter filling freely accessible for changing.

3.3.2 Requirements for extracted air mode

- Exhaust air ducting at the fan outlet.
 - ⇒ "3.4 Requirements for the exhaust air ducting (only for extracted air mode or hybrid mode)" (page 9).
- Diameter of the exhaust air ducting at least 150 mm (corresponds to a surface area of approx. 177 cm²).
- Adequate fresh air supply is assured through the installation of the necessary accessories.
 - Window contact switch.
 - Wall box BMK-Z 150.

3.3.3 Requirements for hybrid mode

- Hybrid filter at the fan outlet.
- Connection of the exhaust air ducting to the hybrid filter.
 - ⇒ "3.4 Requirements for the exhaust air ducting (only for extracted air mode or hybrid mode)" (page 9).
- Cross-section of the ventilation slot in the superstructure larger than 300 cm².
- Diameter of the exhaust air ducting at least 150 mm (corresponds to a surface area of approx. 177 cm²).
- Filter filling freely accessible for changing.
- Adequate fresh air supply is assured through the installation of the necessary accessories.
 - Window contact switch.
 - Wall box BMK-Z 150.

3.4 Requirements for the exhaust air ducting (only for extracted air mode or hybrid mode)

⚠ WARNING!

Fire hazard and asphyxiation hazard due to improper installation!

When using the exhaust air ducting with other devices or when connecting an active exhaust air channel (e.g. chimney), gases or smoke can be drawn into the room.

☞ Make sure that the requirements for the exhaust air ducting are complied with.

- The exhaust air ducting is used exclusively by this device.
- The exhaust air ducting is made of non-combustible material in accordance with DIN 4102 class 1.
- When using a chimney as the exhaust air duct:
 - The chimney must not be used by other devices.
 - The extracted air must be introduced into the chimney using a 90° bend pointing upwards.
 - Approval by a master chimney sweep.
- When routing the exhaust air ducting through the roof or the outside wall:
 - The cross-section must not be smaller than that of the fan outlet.
 - Installation of condensed water collector in the exhaust air ducting in order to prevent water damage inside the device. The condensed water collector must be adequately dimensioned.

The cross-section, length, type and course of the exhaust pipe affect the extraction efficiency. Changing the direction of the air too severely leads to a loss of performance and to noise.

To optimise the device performance:

- Keep the exhaust air ducting as short as possible and route it directly to the outside.
- The stipulated cross-section of the exhaust air ducting is complied with.
 - ⇒ "3.3 Requirements for individual operating modes" (page 9).
- Exclusive use of ducts and bends with smooth inner surfaces.

In order to avoid turbulence or backpressure in the transported air - do not use:

- Spiral hoses.
- Flexible tubes.
- Flat deflection pieces.
- Sharp-edged exhaust air channels.

The exhaust air ducting must be in place before installing the device.

Installation

3.5 Installation procedure

Short overview:

1. Preparation for installation
2. Unpack the device
3. Removing the lower section and separating unit
4. Hanging the device in place
5. Connect accessories
6. Fitting the BackFlow port
7. Installing filter (with recirculating and hybrid operation)
8. Connecting exhaust air ducting (with extracted air and hybrid mode)
9. Establish electrical power supply
10. Mounting the chimney
11. Inserting lower section and separating unit
12. Check and carry out commissioning

3.5.1 Preparation for installation

- ☞ Familiarise yourself with the installation situation and the associated documents.
 - Device and instructions.
 - Accessories.
 - Installation location.
 - Intended operating mode.
 - ☞ Assemble the tools and materials required:
 - Stable stepladder
 - Folding rule or measuring tape
 - Pencil
 - Spirit level
 - Slotted screwdriver SL 2.5 x 0.4
 - Torx screwdriver TX30
 - Ø 8 mm masonry bit
 - Hammer drill
 - 10 mm spanner
 - Cutter blade
 - Protective material (e.g. thick cardboard) for the hob and the worktops
 - ☞ Keep the installation area free of objects that could be in the way or that could be damaged.
 - ☞ Make sure that the hob and other parts that could be touched have cooled down.
 - ☞ Protect the hob and other surfaces in the installation area (e.g. with thick cardboard).
 - ☞ Ensure that the power supply is switched off and remains so. Connect the power supply only when instructed to do so in the installation instructions.
- If accessories (e.g. wall box, window contact switch) are required for the installation:
- ☞ Observe the instructions for the accessories.
 - ☞ Ensure that the accessories are correctly installed and ready for connection.
 - ☞ Ensure that the connection cables from accessories are correctly routed and accessible.

3.5.2 Unpack the device

⚠ ATTENTION!

Hazard of glass breaking or other damage due to incorrect handling!

The device and its surfaces can be damaged when being unpacked or transported.

- ☞ Do not cut into the protective cardboard packaging.
- ☞ Keep objects that could scratch the device far away from it (e.g. tools, belt buckles).

- ☞ Unpack the device and all accompanying parts carefully.
- ☞ Place the device on its back on a firm, clean and protective surface (e.g. thick cardboard).
- ☞ Check the device and its constituent parts for damage.
- ☞ Check the delivery is complete.
 - ⇒ "2.4 Scope of delivery" (page 7).

If parts are missing or damaged:

- ☞ Please consult your dealer or customer services.

- ☞ Remove the packaging material and the protective film.
 - ⇒ "8.1 Dispose of packaging" (page 29).

3.5.3 Removing the lower section and separating unit

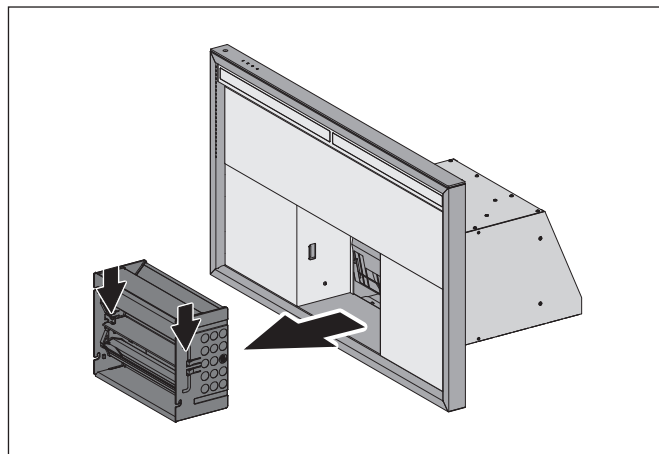
⚠ ATTENTION!

Danger of property damage through falling parts!

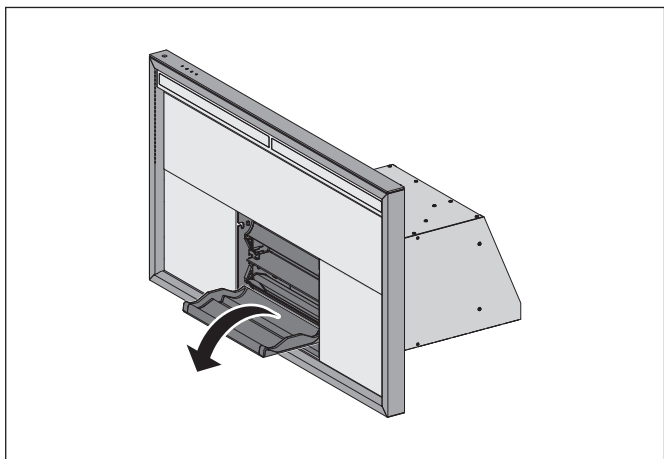
When working on the device, parts of the device or tools could fall and damage the kitchen equipment.

- ☞ Protect the cooled hob and other surfaces in the cooking area (e.g. with thick cardboard).

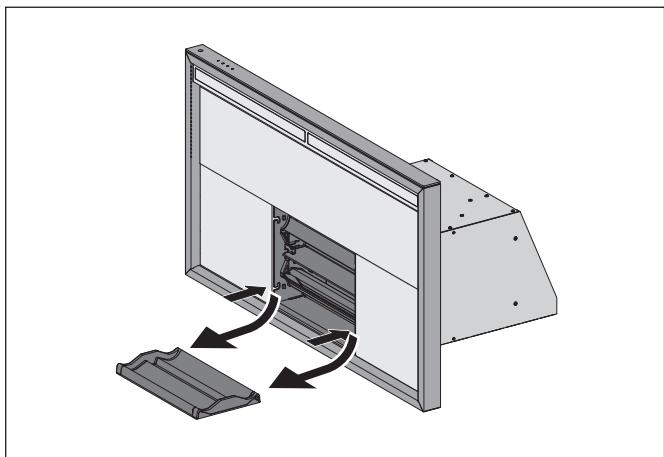
The separating unit is inserted and is held in the device by side hooks.



- ☞ Pull the side hooks inwards on both sides.
- ☞ Remove the separating unit.



- ☞ Fold the lower section down.



- ☞ Press the lower section at the side with both hands and draw it approx. 10 mm back to unlatch it.
- ☞ Move the lower section down in an arc and remove it to the front.

Installation

3.5.4 Hanging the device in place

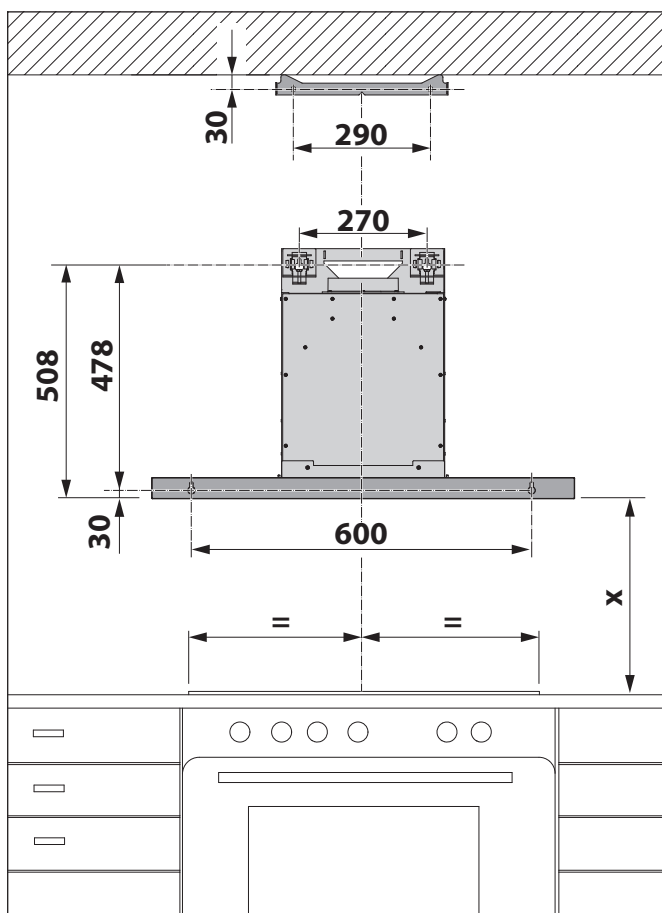
The device is designed to be hung on walls. The chimney can be adapted to the ceiling height by pulling it out.

When mounting on a solid wall:

- ☞ Make sure that the wall has sufficient load bearing capacity.
- ☞ Use the fastening materials provided.

With different installation situations:

- ☞ Enquire about alternative fastening systems (e.g. consult with your architect).
- ☞ Only use fastening hardware suitable for the type of wall.



Safety distance (x):

- Recommendation 700 mm.
 - With electric hobs, at least 600 mm.
 - With gas hobs, at least 650 mm.
- ☞ Observe the specifications for the cooking appliances (e.g. installation above a solid fuel stove).

- ☞ Determine the hanging position.
- ☞ Ensure that the chimney mount is correctly positioned:
 - The chimney cannot be mounted if it falls below the required measurement (30 mm).
 - Any irregularities (e.g. in the ceiling) can be compensated with slotted holes.

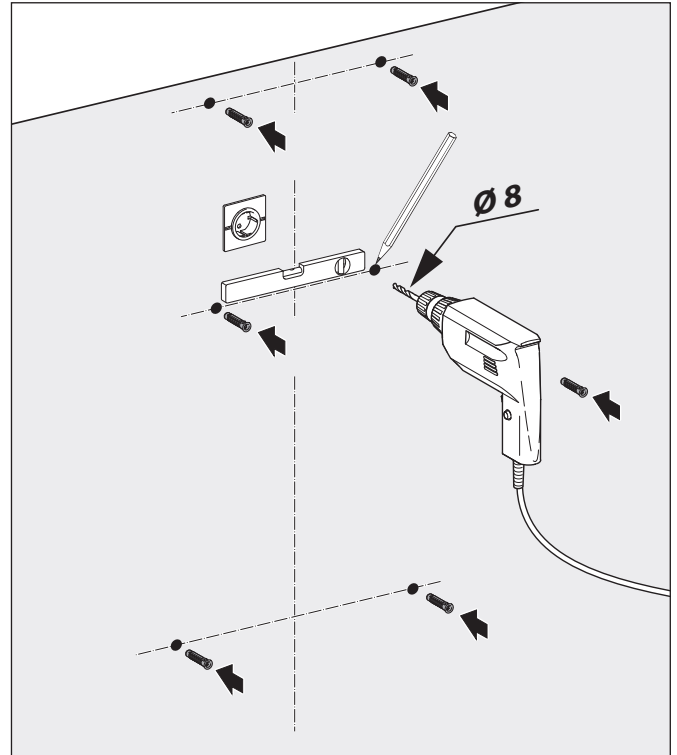
- ☞ Make sure that the safety distance is complied with.

⚠ WARNING!

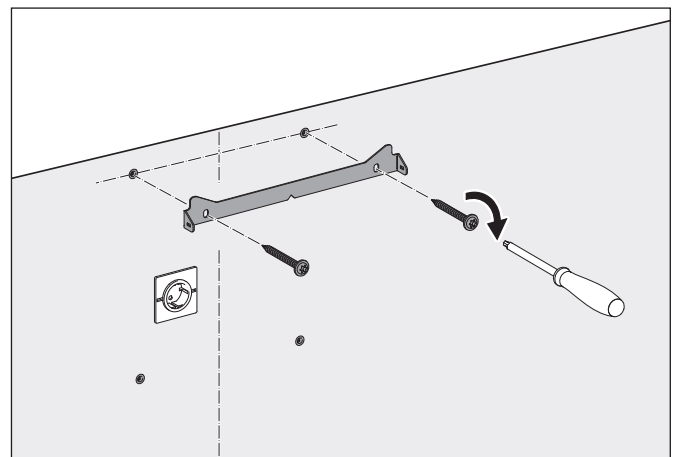
Risk of death due to explosions or electric shock!

Drilling through gas, water or electrical lines can lead to hazardous situations.

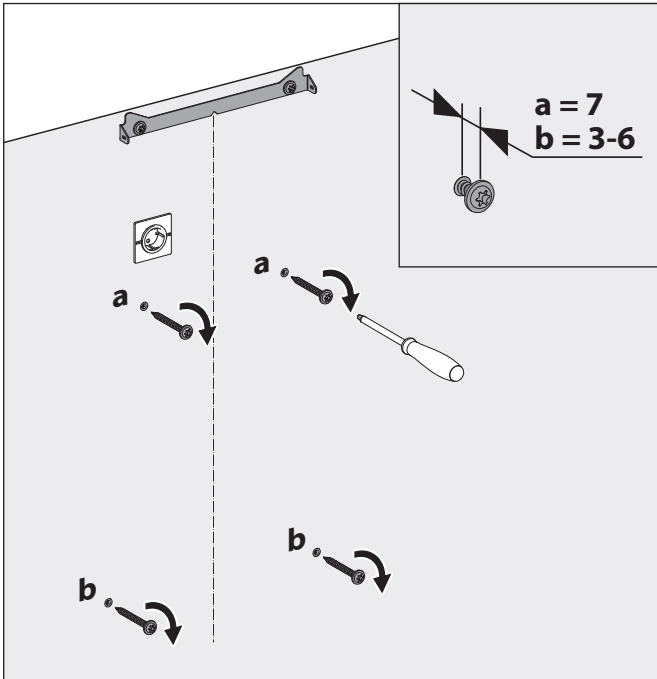
- ☞ Ensure that there are no lines in the wall at the fastening points.



- ☞ Determine the locations of the fastening points and mark them.
- ☞ Drill the holes in the wall.
- ☞ Insert the wall plugs into the holes.



- ☞ Screw the chimney fastening bracket on.



The top fastening screws should only be tightened once the device has been aligned.

The lower fastening screws prevent the device pulling away from the wall and are no longer accessible after the device is hung in place.

☞ Tighten the mounting screws appropriately.

⚠ WARNING!

Danger of injuries through improper handling!

Hanging the device requires a great deal of physical exertion due to its size and weight. If the device falls down, serious injuries are possible.

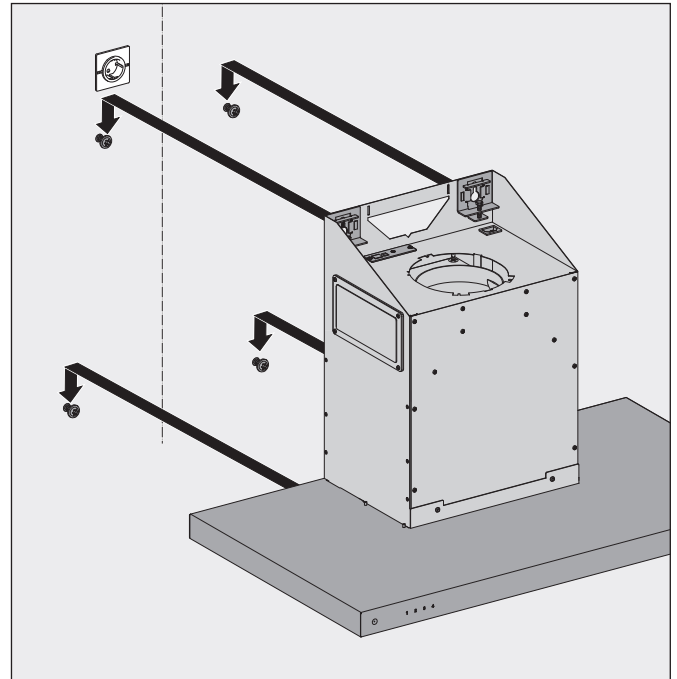
- ☞ Two persons are required to hang the device.
- ☞ Ensure stable footing when hanging the device.
- ☞ Ensure that no other people are in the working area.

⚠ ATTENTION!

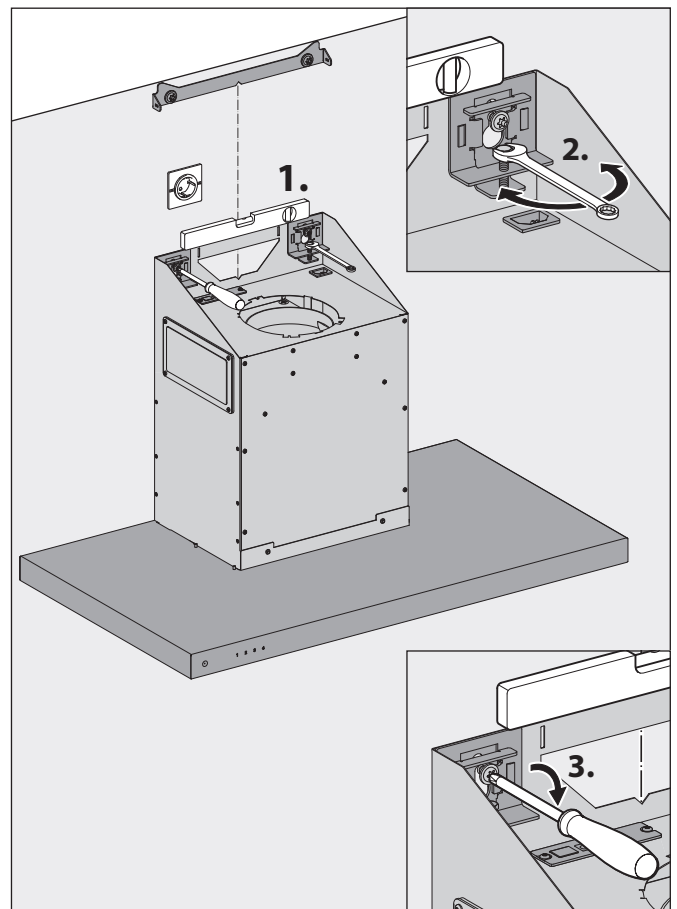
Danger of property damage through improper handling!

Hanging the device requires a great deal of physical exertion due to its size and weight. If the device falls, the device, kitchen furnishings and other objects could be damaged.

- ☞ Cover the cooled hob.
- ☞ Keep the installation area clear.



☞ Hang the device on the mounting points.



- ☞ Check the horizontal alignment of the device.
- ☞ Align the device with the adjusting screws.
- ☞ Tighten the mounting screws.

Installation

3.5.5 Connect accessories

Depending on the installation situation, available accessories may be connected to the hood, e.g.:

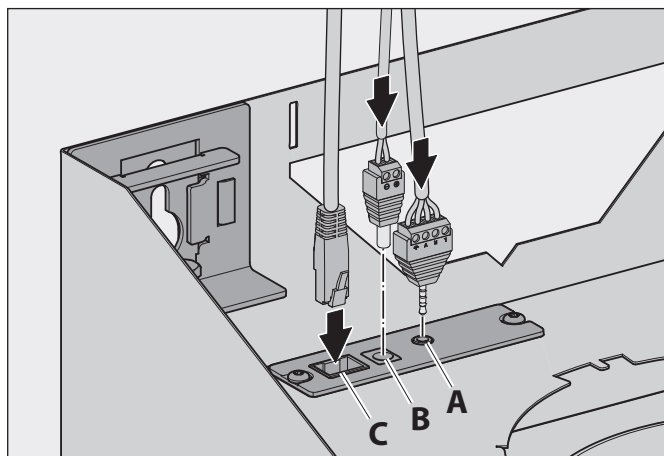
- Wall box
 - Window contact switch
 - Control flap
 - Recirculated air filter permalyt
- 📖 Observe the instructions for the accessories.

⚠ ATTENTION!

Danger of damage due to improper connection!

Applied voltage or defective connections can result in damage to the electronics.

- 🔧 Ensure that the power supply is switched off and remains so.
- 🔧 Ensure correct assignment of the connections.
- 🔧 Make sure that the accessories plugs are fully inserted.



- A Jack socket - for connection of wall box, control flap or recirculated air filter permalyt.
- B DC power socket - for connecting a window contact switch.
- C Connection socket (RJ45) – BUS interface for connection with special accessories of the manufacturer. Connection with a PC or other devices is not permitted.

Wall box

- The wall box is closed when the control contacts are open.
- The wall box is open when the control contacts are closed.

Window contact switch

- The hood's fan is only operational when the window is open.

Safety device

- The hood's fan is only operational when no critical under-pressure is determined in the room.

- 🔧 Connect any available accessories.
- 🔧 Route the cable such that it is not kinked, crushed or damaged and so that it will not get in the way when replacing the filter filling.

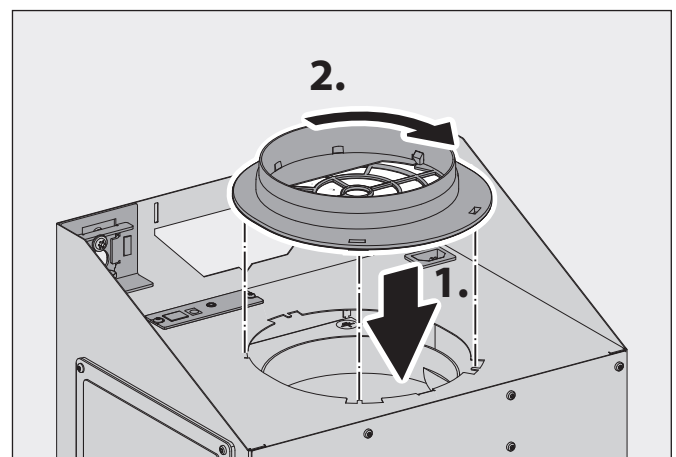
3.5.6 Fitting the BackFlow port

The BackFlow port is installed with the following operating modes:

- Recirculated air mode
- Extracted air mode with BackFlow technology
- Hybrid mode

Use of the BackFlow port has effects on the energy efficiency of the device.

⇒ "2.1 Functional principle" (page 5).



- 🔧 Fit the BackFlow port on the fan outlet.
- 🔧 Secure the BackFlow port by turning slightly to the right.

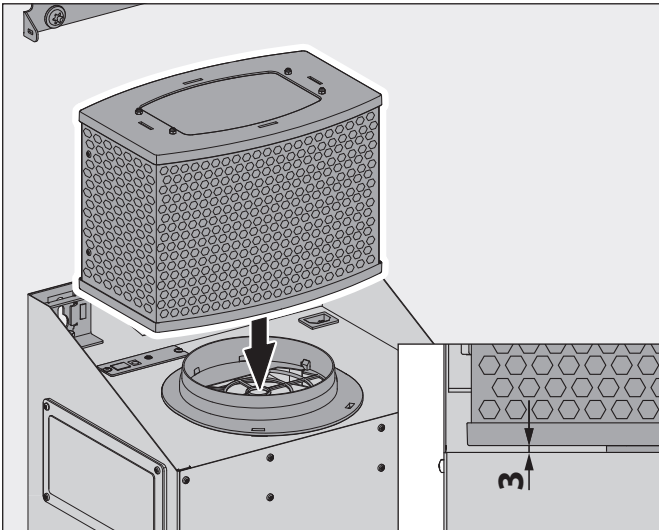
Installation

3.5.7 Installing filter (with recirculating and hybrid operation)

The BackFlow port (Ø 150 mm) is located on the fan housing as an aid for the installation of the filter.

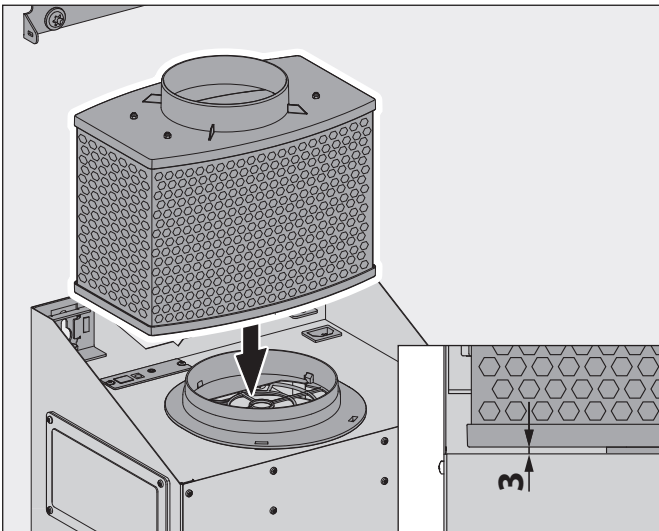
The filter is placed correctly when the bottom edge of the filter is parallel to the top edge of the fan's housing and the gap is approximately 3 mm wide.

Recirculated air mode



- Place the recirculated air filter on the BackFlow port from above.
- Ensure that the recirculated air filter is correctly installed.

Hybrid mode

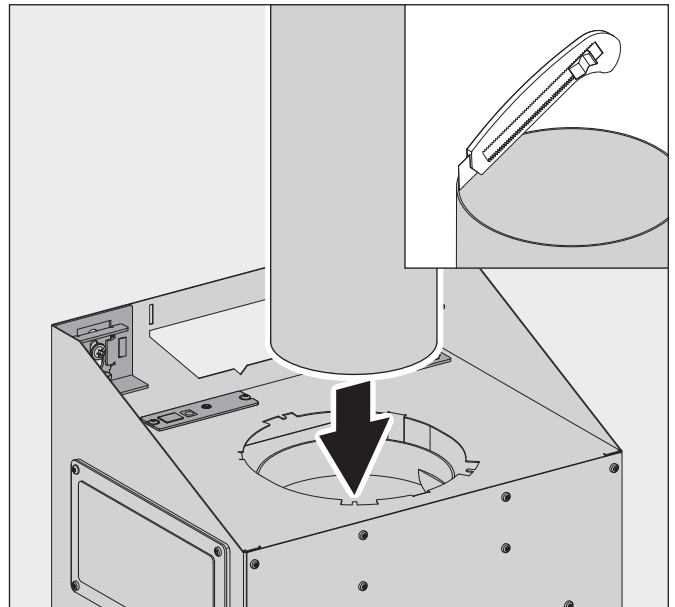


- Place the hybrid filter on the BackFlow port from above.
- Ensure that the hybrid filter is correctly installed.

3.5.8 Connecting exhaust air ducting (with extracted air and hybrid mode)

Extracted air mode without BackFlow technology

The BackFlow port is not used. When connecting a flexible hose, it is possible to use a tight-fitting pipe as an intermediate piece.

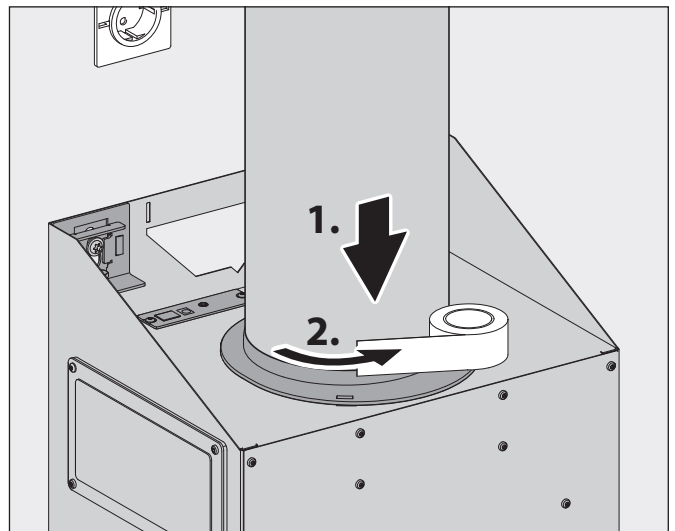


- Establish a chamfer on the inside of the exhaust air ducting.
- Fit the exhaust air ducting directly onto the outlet in the fan housing from above.

Extracted air mode with BackFlow technology

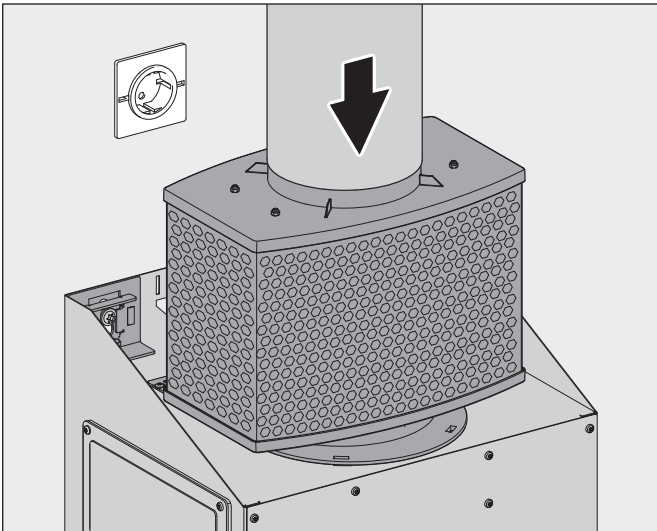
The BackFlow port is used.

➔ "3.5.6 Fitting the BackFlow port" (page 14).



- Fit the exhaust air ducting onto the BackFlow port from above.
- Seal the transition between the exhaust air ducting and the BackFlow port with sealing tape (accessory).

Hybrid mode



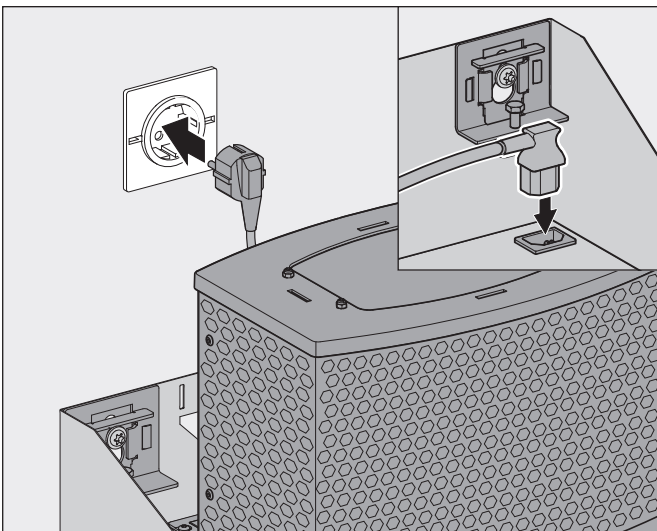
- Fit the exhaust air ducting onto the collar of the hybrid filter from above.

All variants

- Ensure that the exhaust air duct is correctly fitted.

3.5.9 Establish electrical power supply

- Observe the voltage specifications on the ratings plate.



- Plug the connecting cable mains plug into the socket.
- Route the cable such that it is not kinked, crushed or damaged and so that it will not get in the way when replacing the filter filling.
- Make sure that the device can be disconnected on all poles from the electricity supply after installation.

The device is ready for operation.

3.5.10 Mounting the chimney

⚠ ATTENTION!

Danger of damage due to improper handling!

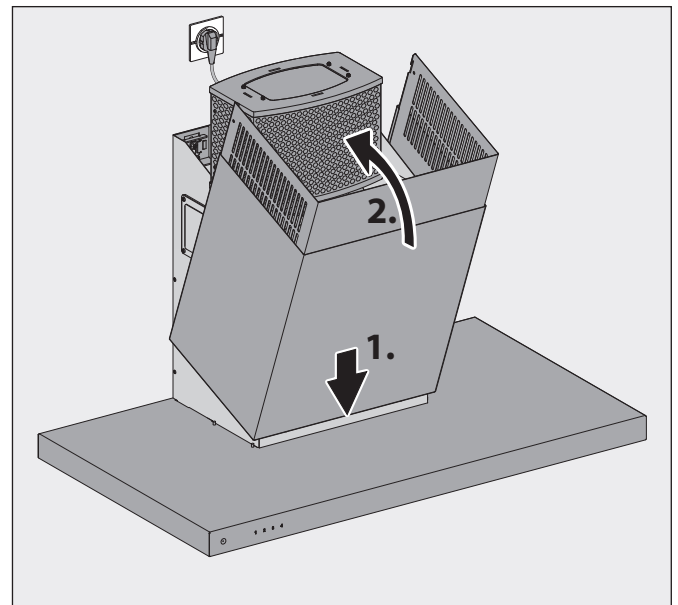
The body of the hood and the chimney could be damaged by movements during the installation.

- Keep a distance between the chimney and the body of the hood.
- Keep objects that could scratch the device far away from it (e.g. tools, belt buckles).

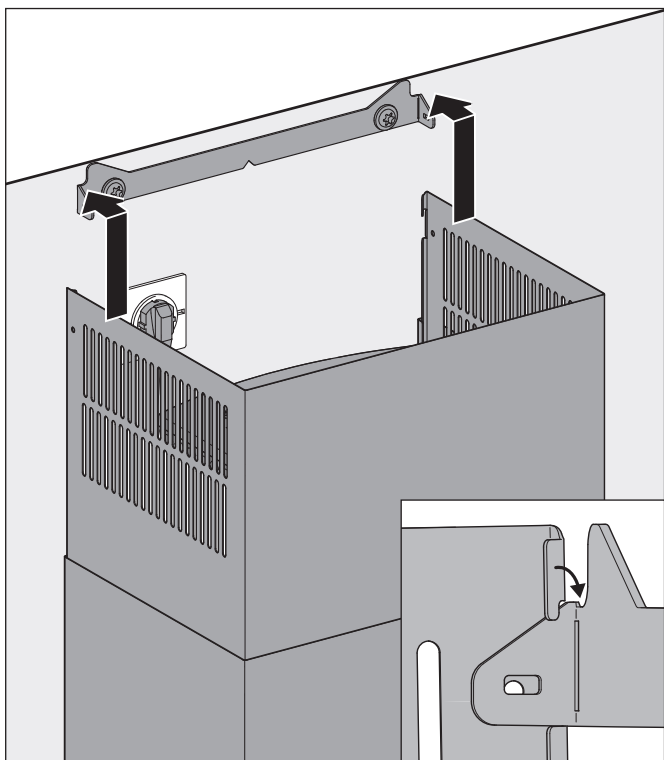
The chimney comprises two chimney ducts that slide inside one another. There are two ventilation slots inside the inner chimney duct.

The chimney ducts are aligned with one another depending on the operating mode.

- Recirculating mode and hybrid mode
The ventilation slots are located at the top and are not covered.
- Extracted air mode
The inner chimney duct can be drawn out and re-inserted upside-down in order to cover the ventilation slots.



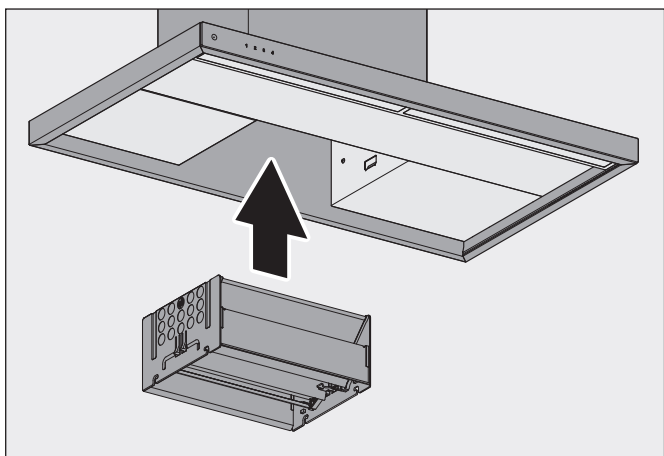
- Lift the chimney up with two persons.
- Place the lower edge of the chimney into the groove of the device.
- Pivot the chimney flush against the wall.



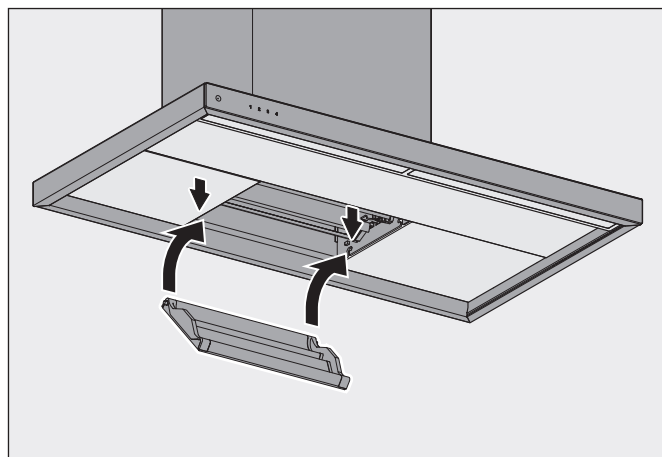
- ☞ Pull the inner chimney duct upwards.
- ☞ Hang the inner chimney duct up on the chimney mount.

3.5.11 Inserting lower section and separating unit

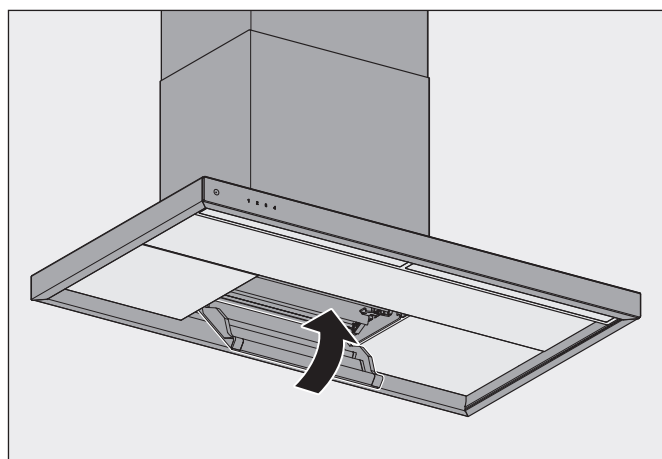
After the installation, the interior parts should be re-fitted.



- ☞ Insert the separating unit into the mounting slot with both hands.
- ☞ Press the separating unit up until it latches into place.



- ☞ Guide the lower section into the device from below, until the guide pins of the lower section are in front of the guide grooves on both sides.
- ☞ Pull the guide pins of the lower sections into the guide grooves.
- ☞ Pull the lower section downwards until it latches into place.
- ☞ Check that the lower section can be moved easily.



- ☞ Pivot the lower section upwards until both magnetic fasteners can be heard to click into place.

3.5.12 Check and carry out commissioning

ATTENTION!

Risk of disruptions due to moisture in the device!

If the device is moved from a cold environment into a hot one, condensation may form inside.

- ☞ Wait about 2-3 hours before bringing the device into service.
-

- ☞ Remove the protective film from the device.
- ☞ Check that the mains plug is freely accessible or that an all-pole isolating device (min. 3 mm contact gap) is present.
- ☞ Check that the mains cable and the electrical connection cable are not kinked, crushed or damaged.
- ☞ Ensure that air outlets are not closed or covered.
- ☞ With recirculated air devices: Make sure that the ventilation slots are free.
- ☞ Make sure that the protective film is removed.
- ☞ Check the correct functioning of the device.
 - ⇒ "4. Operation" (page 19).

Operation

4. Operation

4.1 Safety instructions for operation

⚠ WARNING!

Hazard through a disregard of the operating instructions!

This chapter contains important information for the safe operation of the device.

- 📖 Read through this chapter carefully before operating the device.
- 📖 Follow the safety instructions.

- Operation only by authorised users.
 - ⇒ "1.2 Authorised target groups" (page 4).
- No operation permitted by children under 8 years old and persons who would not be able to properly assess the hazards associated with handling the device.
- Do not use during a fire or when there is an imminent danger of fire (e.g. a smell of gas).
- Gas operation only with low gas flames (not rising above the edge of the base of the pots). Naked flames can damage the device and can cause fires.
- Do not flambé underneath the device. Fire hazard.
- No unattended deep frying underneath the device.
- When in use, the hob and other parts that could be touched can become very hot. There is a risk of burning.
- Grease residues should be removed. Grease residues pose a fire hazard.
- No moisture in the device.
 - Avoid dripping or splashing water.
 - Containers with liquids (e.g. vases, bottles) must not be placed on the device.
- Do not impede the air flow.
- Do not impede the air channel on the underside of the device.
- Use only when the separating unit is used and the lower section closed.
- In recirculated air mode:
 - Do not cover the air outlets (e.g. glasses/plates on or in front of the ventilation slots). Out-flowing air must be able to escape through the ventilation slots without impediment. Otherwise backpressure may form. If the cooking vapours are no longer able to escape there is a danger of fire.
- With exhausted air or hybrid operation:
 - Adequate fresh air supply must be assured.

Measures to ensure a sufficient supply of fresh air:

- 🔊 Open the windows.
- 🔊 Open the doors.
- 🔊 Ensure that the window contact switch and the wall box are installed and ready for operation.
- 🔊 With heating points which use air from the room as their oxygen supply (e.g. chimneys):
 - Make sure that the mandated safety devices are functioning correctly.

4.2 Control panel

The device is controlled via the control panel.



The position of the control panel can be seen by the recess of the ON/OFF button at any time. The remaining touch fields illuminate if the device is switched on.

After the electrical power is switched on, the device needs a few seconds to adjust to the surrounding conditions. No entries are possible during this time.

Touching a touch field executes the corresponding function:

- Touch field illuminates dimly = Function not active
- Touch field illuminates brightly = Function active

Touch field	Function
	ON / OFF, configuration mode access
	Recirculated air mode, filter filling control indicator
	Hob lighting
	Effect lighting (no function)
1	Power level 1
2	Power level 2
3	Power level 3
P	Power level POWER (max. 6 minutes)

Operation

4.3 Normal operation

Touch field	Function
	The device is turned off.  Touch the touch field 1x. The device switches on. The device is switched on.  Touch the touch field 1x. The device switches off. If the run-on function is activated: The run-on time (10 minutes) starts automatically in the last selected power level.
	Touch field illuminates brightly: Recirculated air mode is switched on. Touch field flashes: The filter filling must be replaced.
	Touch field illuminates brightly: Hob lighting is switched on.
1	Touch field illuminates brightly: Power level 1 (lowest fan power) is active.
2	Touch field illuminates brightly: Power level 2 (medium fan power) is active.
3	Touch field illuminates brightly: Power level 3 (high fan power) is active.
P	Touch field illuminates brightly: Power level POWER (max. fan performance) is active for max. 6 minutes. Then the device switches to power level 3.

To achieve an optimal efficiency in removing cooking fumes:

-  Turn the device on 1-2 minutes before you start cooking.
This allows the flow of air to build up, and the fumes are removed at an early stage.
-  During the cooking process, switch to a power level that is appropriate for the intensity of the cooking vapours:
 - Power level 1 - lowest fan power
 - Power level 2 - medium fan power
 - Power level 3 - high fan power
-  If the intensity of the cooking vapours does not subside, switch to a higher power level.
-  Switch to the POWER level if frying.
-  Turn on the run-on function when you have finished cooking.
⇒ "4.3.1 Run-on function" (page 21).
-  Check the fresh air supply at regular intervals.

-  Use the device also to reduce other unpleasant smells.
Such as from:
 - Onions and garlic
 - Oven, microwave and steamer
 - Fondue and raclette

WARNING!

Fire hazard due to grease residue!

In operation grease residue, which is highly inflammable, collects in and on the device.

-  Clean the device properly.
⇒ "5. Cleaning" (page 23).

If a power stage is active, a gentle air flow is routed from the air channel on the underside of the device to the suction gap. This air circulation is necessary. The air channel on the underside of the device must never be closed off.

The hob lighting is fitted with energy-saving LED lighting. The lighting can be used at any time and independently of the fan.

If you switch the machine on and hear an unusually loud fan noise:

-  Clean the device.
-  Observe the stipulations for cleaning.
⇒ "5. Cleaning" (page 23).

If you switch the machine on and notice a smell:

-  Change the filter filling.
-  Follow the instructions for changing the filter filling.
⇒ "6.2.2 Replacing filter filling (with recirculating and hybrid mode)" (page 25).

After 6 hours without operation, the device (including lighting) automatically switches off.

Operation

4.3.1 Run-on function

The device comes with a run-on function. If this function is used, the device will work for a further ten minutes at the last chosen power level.

In recirculated air mode, it is necessary to use the run-on function so that the device can remove the remaining odours. Using the run-on function increases the life of the filter filling. The filter filling must be replaced at regular intervals.

The run-on function can be switched on manually or automatically. The automatic run-on function is activated in configuration mode.

⇒ "4.4 Configuration" (page 22).

Touch field	Function
	The device is switched on. If the automatic run-on function is activated:  Touch the touch field 1x. The device switches off. The run-on time starts automatically in the last selected power level. If the automatic run-on function is not activated:  Touch the touch field 2x - within 2 seconds. The device switches off. The run-on time is started manually in the last selected power level. During the run-on time (10 minutes), the operating symbol for the selected power level will flash.

4.3.2 Hob lighting

The hob lighting is fitted with energy-saving LED lighting. The lighting can be used at any time and independently of the fan.

The hob lighting is dimmable.

The colour temperature is set in configuration mode.

⇒ "4.4 Configuration" (page 22).

Touch field	Function
	 Press the touch field 1x, in order to switch the hob lighting on or off.  Hold touch field down to start the dimmer. After releasing the touch field, the hob lighting remains at the selected brightness. After switching off, the hob lighting starts with full brightness the next time it is switched on.

4.3.3 Extraction mode / recirculated air mode changeover

If the device is configured for hybrid mode, it is possible to switch between extraction mode and recirculated air mode at any time after activating the changeover function.

The changeover function is activated in configuration mode.

⇒ "4.4 Configuration" (page 22).

Touch field	Function
	If the changeover function is activated:  Touch the touch field 1x. Touch field illuminates dimly: The device operates in extraction mode. The wall box is opened. The cleaned air is discharged outdoors. Touch field illuminates brightly: The device is operating in recirculated air mode. The wall box is closed. The cleaned air is discharged into the room.

Operation

4.3.4 Filter filling indicator

The device has a check indicator in order to remind the operator to change the filter filling. In recirculated air mode, the check indicator flashes every 350 hours of fan operation. The hours counter is restarted by switching off the control indicator.

The control indicator is switched off in configuration mode.
⇒ "4.4 Configuration" (page 22).

Touch field	Function
	Touch field flashes: The filter filling must be replaced. ⇒ "6.2.2 Replacing filter filling (with recirculating and hybrid mode)" (page 25).

4.4 Configuration

Touch field	Function
	The device is switched on, the power stages are not active. ☞ Touch the touch field 1x - for longer than 10 seconds. The power level touch field flashes 5x. The device switches to configuration mode. The configuration mode is turned on. To exit the configuration mode: ☞ Touch the touch field 1x. The settings are now saved. All operating symbols illuminate for 5 seconds. The device is in normal mode again.

In the configuration mode, the following functions can be activated or deactivated by touching the corresponding touch fields.

Touch field	Function
	☞ Touch the touch field 1x. The hob lighting switches on. ☞ Press the touch field again to start the colour cycle. After the touch field is released, the colour cycle stops and the selected colour temperature is saved.
2	<i>Extraction mode / recirculated air mode changeover.</i> As delivered, the function is turned off. ☞ Touch the touch field 1x. Touch field illuminates brightly, touch field for recirculated air mode illuminates dimly: The changeover function is activated. ☞ Touch the touch field 1x. Touch field illuminates dimly, touch field for recirculated air mode is off: The changeover function is deactivated.
3	<i>Filter filling indicator.</i> The function is set such that touch field for recirculated air mode flashes every 350 fan operating hours. When the filter filling has been changed: ☞ Touch the touch field 1x. Touch field illuminates brightly: The hour counter starts anew, the touch field for recirculated air mode is switched off.
P	<i>Automatic run-on.</i> As delivered, the function is turned off. ☞ Touch the touch field 1x. Touch field illuminates brightly: Automatic run-on is activated.

Cleaning

5. Cleaning

5.1 Safety instructions for cleaning

WARNING!

Hazard through a disregard of the cleaning instructions!

This chapter contains important information for the safe cleaning of the device.

-  Read through this chapter carefully before cleaning the device.
-  Follow the safety instructions.

- Cleaning only by authorised users.
 - ⇒ "1.2 Authorised target groups" (page 4).
- No cleaning permitted by children under 8 years old and persons who would not be able to properly assess the hazards associated with handling the device.
- After use, the hob and other parts that could be touched may still be hot. There is a risk of burning.
- Grease residues should be removed. Grease residues pose a fire hazard.

The device should be cleaned regularly:

- Control panel, surface and lower section each time after cooking.
- The separating unit with daily use after no more than 8 - 10 weeks at the latest.

5.2 Cleaning procedures

The device draws in dirt particles (e.g. grease and oil particles) with the air from the room. The dirt particles are separated off and collected in the lower section and separating unit.

Before every cleaning:

-  Turn off the device.
-  Make sure that the hob and other parts that could be touched have cooled down.

ATTENTION!

Danger of damage through improper cleaning!

Sharp-edged objects, abrasive or unsuitable cleaning agents can damage the device.

The following cleaning agents are unsuitable and must not be used:

- Acetone
- Trichloroethylene
- Solutions on a cellulose basis (e.g. cellulose thinner)
- Artificial resin thinner
- Abrasive media
- Polishes containing silicone
- Polishes containing oil
- Wax
- Water vapour
- On painted surfaces: Microfibre cloth
-  Keep objects that could scratch the device far away from it (e.g. rings).
-  Use mild household cleaner (e.g. alkali-free, pH-neutral multipurpose cleaner).
-  Use a soft, damp cloth.
-  Clean without exercising excessive pressure.

-  The instructions and information on the cleaning agent should be observed.

Control panel

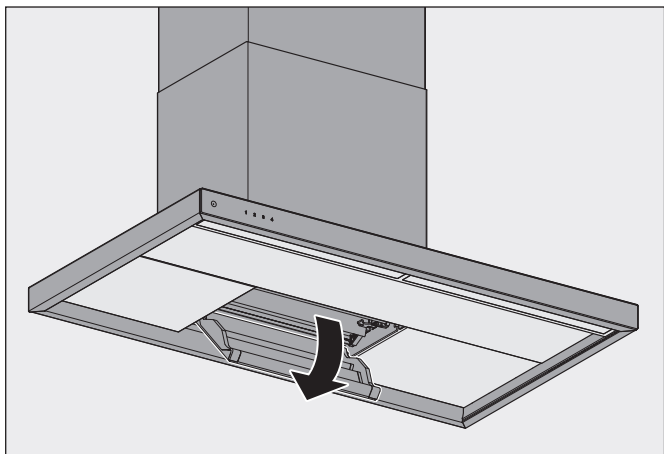
-  Clean the control panel with a lint-free, slightly damp cloth (e.g. a microfibre cloth).
-  Dry the control panel with a lint-free, soft cloth.

Surfaces

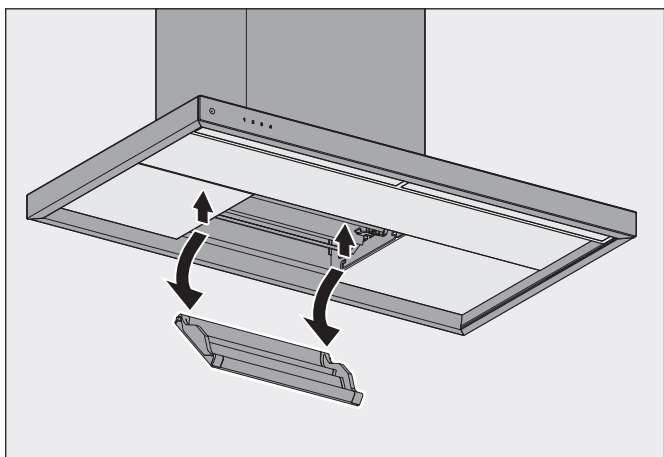
-  Clean the surfaces with a soft, damp cloth and a mild household cleaner.
-  Dry the surfaces with a soft cloth.

Lower section

The lower section is held in the device by two guide pins.



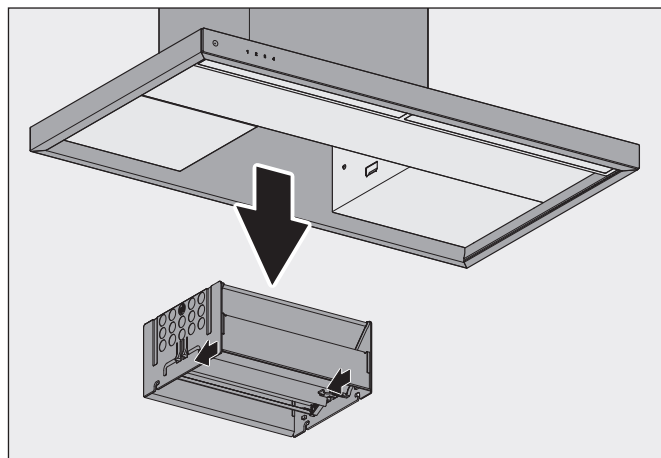
- ☞ Fold the lower section down.



- ☞ Press the lower section at the side with both hands and draw it approx. 10 mm up to unlatch it.
- ☞ Move the lower section back in an arc and then remove it to the bottom.
- ☞ Clean the lower section of the hood body with a soft, damp cloth.
- ☞ Clean the lower section with a soft, damp cloth or in a dishwasher.
- ☞ Dry the lower section with a soft cloth.
- ☞ Re-attach the lower section.
 - ⇒ "3.5.11 Inserting lower section and separating unit" (page 17).

Separating unit

The separating unit is inserted and is held in the device by side hooks.



- ☞ Pull the side hooks inwards on both sides.
- ☞ Remove the separating unit.
- ☞ Clean the separating unit, e.g. in the dishwasher.
- ☞ Clean the surfaces and edges on the mounting slot for the separating unit with a soft, damp cloth.
- ☞ Make sure the separating unit is completely dry.
- ☞ Refit the separating unit.
 - ⇒ "3.5.11 Inserting lower section and separating unit" (page 17).

Maintenance

6. Maintenance

6.1 Safety instructions for maintenance

⚠ WARNING!

Hazard through a disregard of the maintenance instructions!

This chapter contains important information for the safe maintenance of the device.

- 🔧 Read through this chapter carefully before carrying out maintenance work on the device.
- 🔧 Follow the safety instructions.
- 🔧 Carry out the maintenance work as described.

- Repairs only by qualified specialist personnel.
⇒ "1.2 Authorised target groups" (page 4).
- Electrical work must only be undertaken by qualified electricians.
⇒ "1.2 Authorised target groups" (page 4).
- Maintenance only by authorised users.
⇒ "1.2 Authorised target groups" (page 4).
- No maintenance work permitted by children under 8 years old and persons who would not be able to properly assess the hazards associated with handling the device.
- When working at heights, ensure good stable footing (e.g. stable stepladder).
- The hob and other parts that can be touched must be cooled down.
- Never open the fan housing.

6.2 Maintenance

6.2.1 Changing the lamps

The device is fitted with maintenance-free LED lighting. In the event of a fault:

- 🔧 Please consult your dealer or customer services.

6.2.2 Replacing filter filling (with recirculating and hybrid mode)

Odours are trapped in the filter filling in the recirculating air filter or hybrid filter. The odour-free, cleaned room air is fed back into the room.

Recirculating air filters and hybrid filters are maintenance-free for up to two years.

Then filter filling must be replaced at regular intervals.

Maintenance intervals

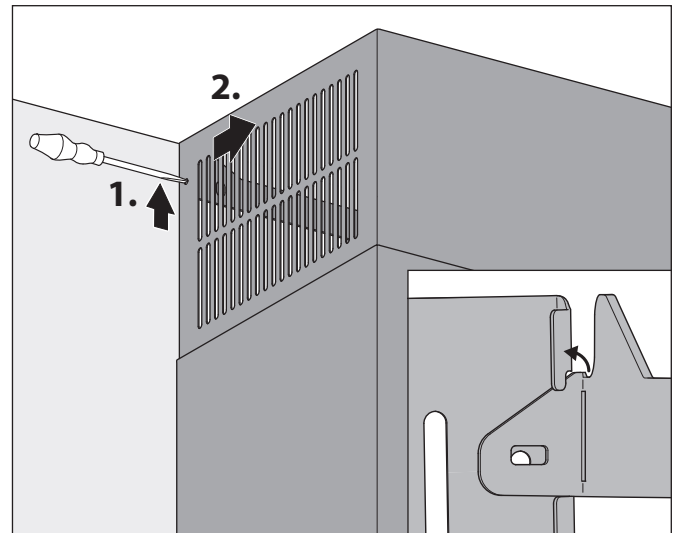
- When the control indicator blinks - every 350 fan operating hours.
⇒ "4.3.4 Filter filling indicator" (page 22).
- When there are odours in the exhaust air.
- With daily use, after 24 months at the latest.
- With occasional use, after 36 months at the latest.

⚠ ATTENTION!

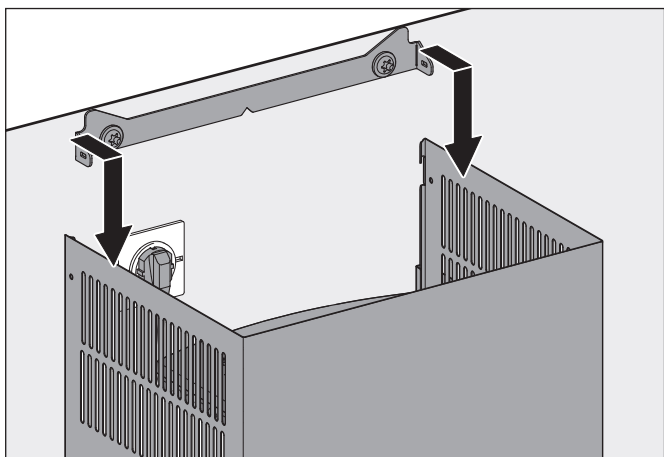
Danger of property damage through falling parts!

When working on the device, parts of the device or tools could fall and damage the kitchen equipment.

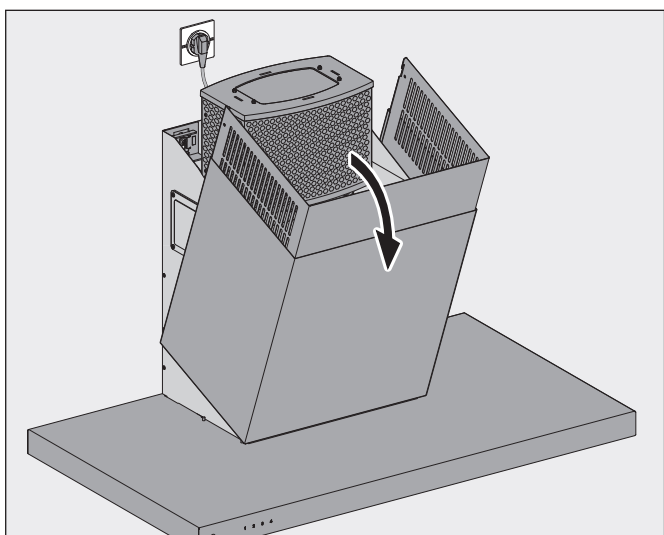
- 🔧 Protect the cooled hob and other surfaces in the cooking area (e.g. with thick cardboard).
- 🔧 Move the device parts with the utmost caution.



- 🔧 Loosen the inner chimney duct on both sides from the chimney mount.

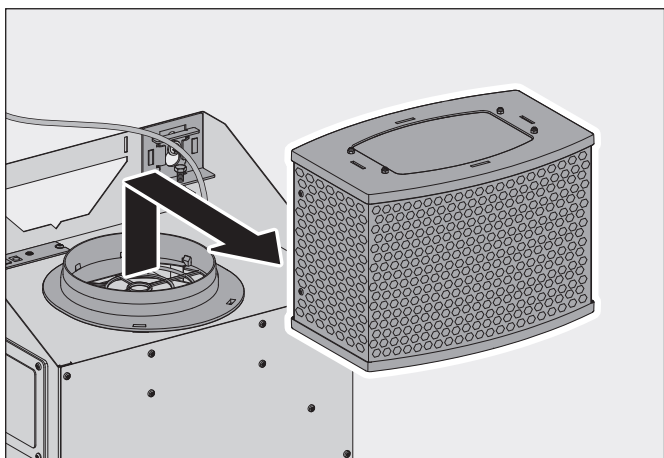


☞ Slide the inner chimney duct downwards.



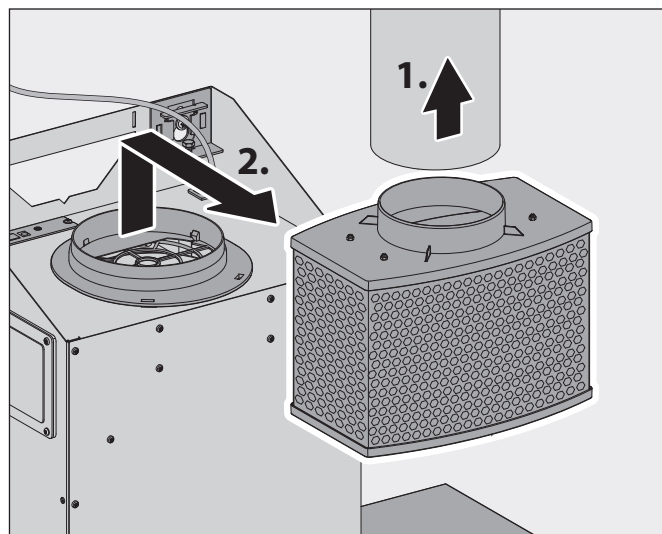
☞ Lift the chimney away from the device.

Remove the recirculation air filter



- ☞ Lift the filter at least 30 mm.
- ☞ Remove the filter to the front.

Remove the hybrid filter



- ☞ Remove the exhaust pipe from the hybrid filter.
- ☞ Lift the filter at least 30 mm.
- ☞ Remove the filter to the front.
- ☞ The replacement of the filter filling is carried out as described in the associated instructions.
- ☞ Change the filter filling.
- ☞ Clean the filter from the outside (e.g. through extraction with a vacuum cleaner).
- ☞ Attach the filter again.
 - ⇒ "3.5.7 Installing filter (with recirculating and hybrid operation)" (page 15).
- ☞ Mount the chimney.
 - ⇒ "3.5.10 Mounting the chimney" (page 16).
- ☞ Switch off the check indicator on the control panel.
 - ⇒ "4.4 Configuration" (page 22).

Maintenance

6.3 Fault rectification

Possible faults are described below:

Description of the fault.

- Possible cause.
- ☞ Remedy.

Fan and lighting do not work.

- No power supply.
 - ☞ Check that the all-pole mains switch is connected.
 - ☞ Switch the mains switch on.
- The breaker may have been tripped or is defective.
 - ☞ Check to see if the breaker has tripped.
 - ☞ If you use electric circuit breakers, turn the circuit breaker on again.
 - ☞ For other types of fuse, consult a qualified electrician.

The fan does not work.

- The device is not switched on.
 - ☞ Check all power levels.
 - ⇒ "4.3 Normal operation" (page 20).
- The device is connected to a window contact switch and the window is closed.
 - ☞ Open the window.
- The device is connected to a safety device. The safety device detects a critical under-pressure.
 - ☞ Open a window.
 - ☞ Wait until the air pressure returns to normal.

The lighting does not work.

- The device software requires a restart.
 - ☞ Interrupt the power supply for approx. 10 seconds.
- The lamp has blown.
 - ☞ Please consult your dealer or customer services.

Odours occur during operation.

- The filter filling is used up.
 - ☞ Change the filter filling.
 - ⇒ "6.2.2 Replacing filter filling (with recirculating and hybrid mode)" (page 25).

Poor device performance.

- The recirculated air filter is clogged.
 - ☞ Replace the filter filling of the recirculated air filter.
 - ⇒ "6.2.2 Replacing filter filling (with recirculating and hybrid mode)" (page 25).
- The hybrid filter is clogged.
 - ☞ Replace the filter filling of the hybrid filter.
 - ⇒ "6.2.2 Replacing filter filling (with recirculating and hybrid mode)" (page 25).
- The exhaust pipe was not properly connected or installed.
 - ☞ Please consult your dealer or customer services.

Control panel does not react after being touched several times.

- The control panel is soiled.
 - ☞ Clean the control panel.
 - ⇒ "5. Cleaning" (page 23).
- The device software requires a restart.
 - ☞ Interrupt the power supply for approx. 10 seconds.

Moisture in the device.

- Dripping or splashing water has penetrated the device.
- Liquid (e.g. from vases, bottles on the device) has penetrated the device.
 - ☞ Immediately shut off the power supply, by removing the fuse.
 - ☞ Make sure that the power supply cannot be unintentionally reconnected. For example by tasking a person with ensuring that the fuse/breaker is not restored/switched on.
 - ☞ Ensure that no more liquid can penetrate the device.
 - ☞ Allow the device to dry.
 - ☞ Have the device checked and repaired by qualified, specialist personnel prior to using the device again.

If a fault persists:

- ☞ Please consult your dealer or customer services.

Dismounting

7. Dismounting

WARNING!

Danger of injuries through improper handling!

Taking the device down requires a great deal of physical exertion due to its size and weight. If the device falls down, serious injuries are possible.

-  Two persons are required to take the device down.
-  Ensure stable footing when taking the device down.
-  Ensure that no other people are in the working area.

ATTENTION!

Danger of property damage through improper handling!

Taking the device down requires a great deal of physical exertion due to its size and weight. If the device falls, the device, kitchen furnishings and other objects could be damaged.

-  Cover the cooled hob.
-  Keep the installation area clear.

-  Disconnect all poles of the power supply for the device.
-  Pull out the mains plug.
-  Loosen the inner chimney duct from the chimney mount.
-  Lift the chimney away from the device.
-  Remove the chimney fastening.

If present:

-  Remove any accessory connection cables.

For extracted air and hybrid operation:

-  Remove the exhaust air duct.

For recirculating air and hybrid operation:

-  Remove the filter.

-  Loosen the mounting screws by approx. one turn.
-  Lift the device with two persons.
-  Lift the device off, forwards.
-  Set the device down on a firm and protective surface.

Disposal

8. Disposal

8.1 Dispose of packaging

ATTENTION!

Risk of environmental damage due to improper disposal of the packaging!

-  Do not put the packaging into the normal household waste.
-  Take the packaging for environmentally friendly and proper recycling.

The packaging provides protection from transport damage. Only the original packaging guarantees sufficient protection during transportation.

-  Store the packaging in a location which is inaccessible to children.

The packaging materials have been selected from an environmentally friendly perspective and are made from re-usable materials. The packaging materials can be returned to the raw materials cycle after use. This saves valuable raw materials.

- The outer packaging is made from cardboard.
- The filling material and the insets are made from cardboard or polythene (PE).
- The protective film and bags are made from polythene (PE).
-  Dispose of the packaging in an environmentally friendly manner, separated by materials.



8.2 Dispose of the device

ATTENTION!

Risk of environmental damage due to improper disposal of the device!

The device is subject to the European Directive 2012/19/EU and should not be disposed of with household waste.

-  Do not put the device into the normal household waste at the end of its service life.
-  Enquire about the disposal options or environmentally friendly and proper recycling opportunities with your municipal or regional authorities.

-  Render the device unusable after dismantling it, e.g. by cutting the de-energised mains cable.
-  Dispose of the device in accordance with the legal provisions via a professional disposal centre or at your local disposal facility.



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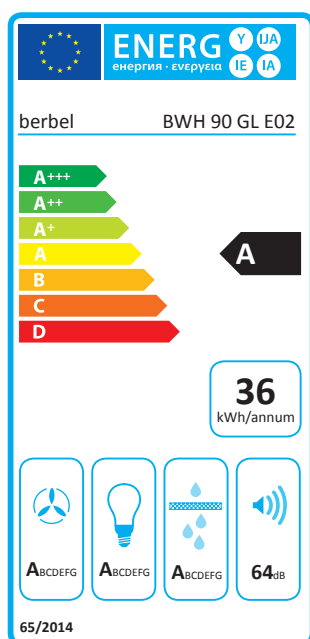
9. Annex

9.1 Product data sheet

In accordance with article 3 section 1 b point ii of the Regulation (EU) No. 65/2014

The information on the energy label applies to extraction in extracted air mode without BackFlow technology.

BWH 90 GL E02



	BWH 90 GL E02
Annual energy consumption in kWh	35.5
Energy efficiency index (EEI)	53.3
EEI Hood Class	A
FDE Hood	29.3
FDE Hood Class	A
LE Hood	45.7
LE Hood Class	A
GFE Hood	96.3
GFE Hood Class	A
Flow rate in extracted air mode in m ³ /h	
Stage min. to max.	310/370/450
Stage Power/Intense	560
Flow rate in recirculated air mode in m ³ /h	
Stage min. to max.	250/300/380
Stage Power/Intense	470
Noise power level in extracted air mode in db(A)	
Stage min. to max.	54/60/64
Stage Power/Intense	69
Noise power level in recirculated air mode in db(A)	
Stage min. to max.	56/61/65
Stage Power/Intense	71
Power consumption stand-by in Watt (W)	0.4
Power consumption stand-off in Watt (W)	0.3

9.2 Contact

If you have any questions or suggestions, please select from the following options:

Post: berbel Ablufttechnik GmbH
Sandkampstraße 100
D-48432 Rheine

Tel: +49 (0) 5971 80 80 9-0
Mon to Thu 08:00 – 17:30 hrs
and Fri 08:00 – 16:30 hrs

Fax: +49 (0) 5971 80 80 9-10

Internet: www.berbel.de

email: info@berbel.de

Contact the manufacturer's customer support department

There are several ways for you to contact our customer service. Please select from the following options:

Tel: +49 (0) 5971 80 80 9-0
Mon to Thu 08:00 – 17:00 hrs
and Fri 08:00 – 15:00 hrs

Fax: +49 (0) 5971 80 80 9-10

email: service@berbel.de

