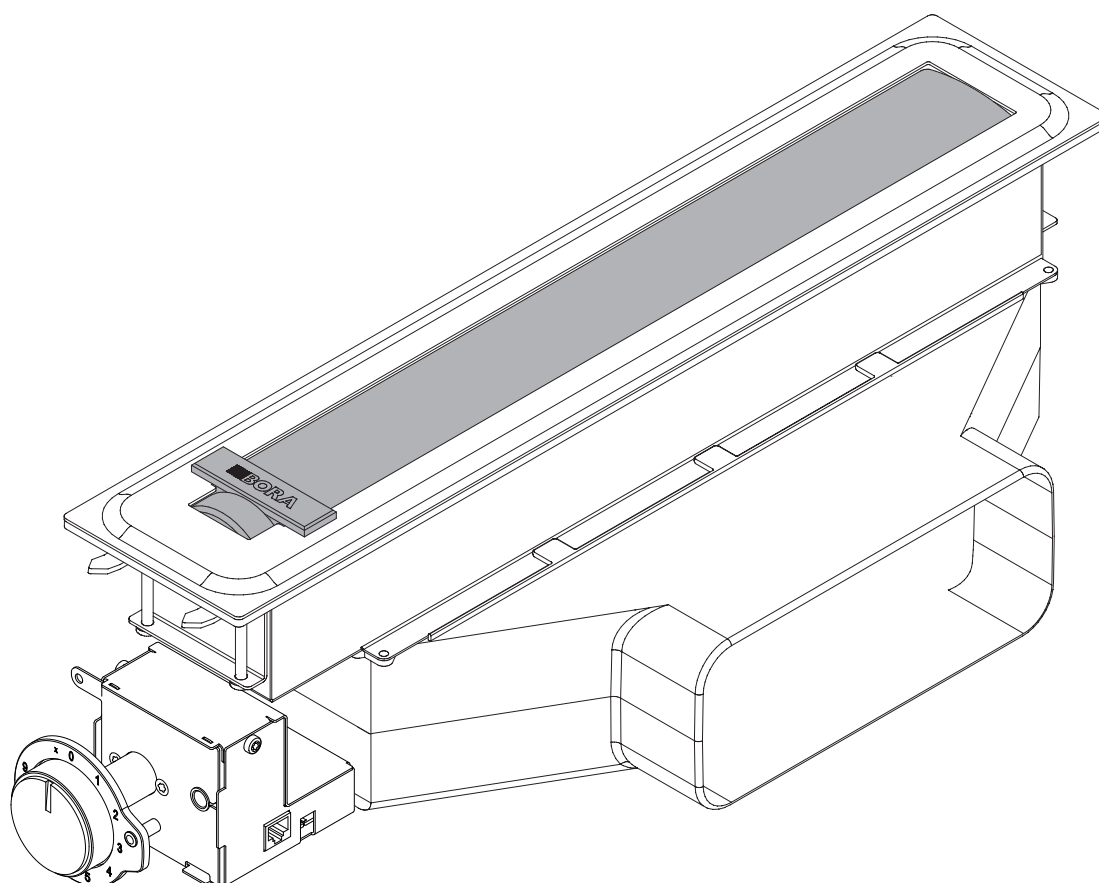


## **EN** Operating and installation instructions PL540E

### Cooktop extractor



**PL540EUMEN-001**

**Operating and installation instructions:**

☐ Original

☒ Translation

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# 1 General

## Target group

These operating and assembly instructions are intended for the following target groups:

Target group	Requirements
Users	The Device may be used by children from the age of 8 as well as by people with limited physical, sensory or mental capabilities or a lack of experience and/or knowledge, provided they are supervised, have been instructed in the safe use of the device and have understood the dangers involved. Children must be supervised. All safety and warning information and handling instructions in the operating manual must be followed.
Ambitious Diyers	Ambitious Diyers may carry out all the necessary carpentry and assembly work themselves providing that they have the necessary skills and knowledge. They must not connect the current and gas themselves.
Assembly expert	The assembly expert must carry out all the necessary carpentry and assembly work taking existing regulations into account. The current and gas connections must be approved for the system in use by a certified electrician or gas engineer before use.
Electrical expert	The electrical connection must only be executed by a certified electrician. He/she also assumes responsibility for the proper electrical installation and commissioning.
Expert gas connection	The gas connection must only be implemented by a certified gas engineer. He/she also assumes responsibility for the proper gas installation and commissioning.

Tab. 1.1 Target groups

<b>INFO</b>	<p>BORA Holding GmbH, BORA Vertriebs GmbH &amp; Co KG, BORA APAC Pty Ltd and BORA Lüftungstechnik GmbH - hereinafter referred to as BORA - shall not assume any liability for damage caused by non-compliance with these documents nor by improper assembly!</p> <p>The electricity and gas connections must be implemented by a certified engineer. Assembly must only take place in compliance with the applicable norms, regulations and laws. All safety and warning information and handling instructions in the operating and assembly instructions must be followed.</p>
-------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

## Validity of the operating and assembly instructions

This manual is valid for several versions of the device. For this reason, it is possible that individual features are described in the manual that do not apply to your device.

## Other applicable documents

Additional documents are valid as well as these operating and assembly instructions, and likewise need to be observed.

Please observe all documents included in the scope of delivery.

<b>INFO</b>	BORA cannot assume any liability for damage caused by non-compliance with these documents!
-------------	--------------------------------------------------------------------------------------------

## Guidelines

These devices meet the following EC guidelines:

2014/30/EC EMC Directive  
 2014/35/EC Low-Voltage Directive  
 2009/125/EC Ecological Design Directive  
 2010/30/EC Energy label Directive  
 2011/65/EC RoHS Directive  
 2012/19/EC WEEE Directive

## Depiction of information

We used standard formatting, numbering, symbols, safety instructions, terms and abbreviations so that you can work quickly and safely when using this manual.

**Instructions** are marked with an arrow.

► Always perform all instructions in the prescribed order.  
**Enumerations** are indicated with a square bullet point at the start of the line.

- Enumeration 1
- Enumeration 2

<b>INFO</b>	Information notes point to special features that must be taken into account.
-------------	------------------------------------------------------------------------------

## Safety and warning instructions

The safety and warning instructions in this manual are emphasised with symbols and signal words.

Safety and warning instructions are structured as follows:




### WARNING SYMBOL AND SIGNAL WORD!

Type and source of the danger  
 Results of non-compliance

► Measures to minimise risk

Please note:

- The warning symbol draws your attention to the risk.
- The signal word indicates the severity of that risk.

Warning symbol	Signal word	Risk
	<b>Danger</b>	Indicates an immediate, hazardous situation which causes death or serious injury if not respected.
	<b>Warning</b>	Indicates a potentially hazardous situation which can cause death or serious injury if not respected.
	<b>Caution</b>	Indicates a possible hazardous situation which can cause minor injury if not respected.
—	<b>Caution</b>	Indicates a situation which can cause minor injury if not respected.

Tab. 1.2 Meaning of the warning symbols and signal words

## 2 Safety

### 2.1 General safety precautions

**INFO** The product complies with the mandatory safety provisions. The user is responsible for cleaning, care and safe use of the device. Any improper use may lead to personal injury and property damage.

- This operating and installation instructions contain important information concerning assembly and operation. It protects you from injury and prevents damage to the product. You can find contact data to get further information and answers to questions about the use of the product on the last page of this operating and installation instructions.
- The term “device” is used to refer to cooktop, cooktop extractor or cooktop with integrated cooktop extractor.
- ▶ Read this operating and installation instructions in full before you assemble the device and start to use it.
- ▶ Always keep these operating and installation instructions to hand so it is available when needed.
- ▶ After selling the device, pass on the operating and installation manual to the new owner.
- ▶ Carry out all work with great care and attention.
- ▶ Check the device for visible damage after unpacking.
- ▶ Do not install a damaged device.
- ▶ Do not use the device until installation is complete. Only in this way a safe operation can be guaranteed.
- ▶ Make sure contact with hot cooking surfaces is not possible.
- ▶ Avoid over-cooking.
- ▶ Do not, under any circumstances, operate the cooktop extractor with other cooktops.
- ▶ Turn the device off after use.
- ▶ Keep pets away from the device.

#### Recirculated air mode

**INFO** Every time the device is used for cooking, supplementary moisture is released into the room air.

**INFO** In the recirculated air mode, only a small amount of moisture is removed from the cooking vapours.

- ▶ Make sure that the room is sufficiently ventilated to the outside air in the recirculated air mode, e.g. through an open window.
- ▶ Ensure a normal and comfortable indoor climate (45-60% humidity), e.g. through natural ventilation openings or domestic ventilation systems.
- ▶ Set the cooktop extractor to a low setting for about 15 minutes or activate the automatic after-run after every use in the recirculated air mode.

#### When there are children and people with special needs in the house

- This device may be used by children from the age of 8 as well as by persons with limited physical, sensory or mental capabilities or a lack of experience and/or knowledge, provided they are supervised, have been instructed in the safe use of the device and have understood the dangers involved.
- Do not leave children unattended when they are near the device.
- Children must not play with the device.
- ▶ Do not store any objects that could be of interest to children in storage spaces above or behind the device. Otherwise, the children will be tempted to climb onto the device.

#### Unauthorised modifications

Due to unauthorised modifications  
The device can constitute a hazard.

- ▶ Do not make any changes to the device.

#### Cleaning and Maintenance

The device must be cleaned at regular intervals. Dirt can lead to damage or odour nuisance.

Remove dirt immediately.

- Any work involving cleaning and user maintenance must not be carried out by children unless they are supervised at all times while doing so.
- ▶ Do not use a steam cleaner for cleaning. Steam can cause a short circuit on live parts and thus lead to property damage (see the Cleaning chapter).
- ▶ Do not place any hot cookware in the area of the control panel so as not to damage the underlying electronics.
- ▶ When cleaning the device, water must not penetrate the interior of the device. Use only a slightly damp cloth. Never spray the

device with water. Water penetration can cause damage!

## 2.2 Safety instructions, operation

### Cooktop extractor



#### **DANGER!**

##### **Danger to life caused by smoke poisoning!**

Combustion gases arise when running a fireplace that depends on the air in the room.

If you operate the cooktop extractor with a fireplace that depends on the air in the room at the same time, poisonous combustion gases (carbon monoxide) may be drawn from the chimney or extraction duct into the living room.

- Make sure that there is always enough air supply.



#### **DANGER!**

##### **Risk of fire through flambéing!**

While in operation, the cooktop extractor draws off cooking fat. When flambéing food, the cooking fat can catch fire.

- Clean the cooktop extractor at regular intervals.
- Do not carry out any work involving an open flame when the cooktop extractor is switched on.



#### **DANGER!**

##### **Danger of fire due to grease deposits!**

By failing to clean the stainless steel grease filter at regular intervals, increased amounts of grease may accumulate in it. This increases the risk of fire.

- Clean or replace the filters at regular intervals.



#### **WARNING!**

##### **Risk of injury due to moving fan wheel!**

There is a risk of injury if the fan wheel turns.

- Only install the device with the power disconnected.
- Connect both sides of the fan to the duct system before commissioning.
- Ensure that the inlet nozzle is locked before the device is commissioned for the first time.



#### **CAUTION!**

##### **Touchable parts may become hot!**

The cooktop extractor and its touchable parts are hot when the cooking zone is switched on and during the cooling phase.

- Do not place any items on the cooktop.
- Please use suitable tools (pot holders, oven gloves).

#### **CAUTION!**

##### **Damage caused by objects or paper being sucked in!**

Small and light objects such as cleaning wipes made of fabrics or paper can be sucked into the cooktop extractor. As a result, the fan can be damaged or the fan output can be impaired.

- Do not store any objects or paper on the cooktop extractor.

#### **CAUTION!**

##### **Damage caused by fat or dirt deposits!**

Fat or dirt deposits can impair the functioning of the cooktop extractor.

- Never use the cooktop extractor without a stainless steel grease filter.

## 2.3 Safety instructions, assembly

Installation and assembly of the device may only be carried out by trained personnel who are familiar with and comply with common national regulations and supplementary

regulations of the local utility companies.

Work on electrical parts must only be carried out by trained electrical personnel.

The electrical safety of the device is only guaranteed if it is connected to a properly installed protective conductor system. Make sure that these basic safety precautions have been taken.

## Cooktop extractor



### **DANGER!** **Risk of poisoning caused by combustion gases!**

When the cooktop extractor is used for exhaust operation, it draws in air from the room it is installed in and from neighbouring rooms. Without sufficient air, negative pressure will occur. Toxic gases could be drawn out of the chimney or extraction ducting on a fireplace that depends on the room air and back into the room.

- ▶ Make sure there is always enough air supply.
- ▶ Use technical safety measures (e.g. window contact switch, low pressure warning device) and have them approved by a qualified expert (certified chimney-sweep).



### **DANGER!** **Risk of electric shock!**

The electronic unit can contain residual charge and cause an electric shock.

- ▶ Do not touch exposed contacts on the electronic unit.



### **DANGER!** **Risk of electric shock!**

Incorrect stripping of the connection cable to external switching devices results in a risk of electric shock.

- ▶ Ensure that the connection cable is secured with the strain relief clamp within the universal control unit.
- ▶ Ensure that the stated stripping lengths are adhered to.

- ▶ Check the device for visible damages before installing it.

- ▶ Do not install a damaged device.

- A damaged device may put your safety at risk!

Repair and maintenance work may only be carried out by specialists authorised by the manufacturer.

## 2.4 Safety instructions, disassembly and disposal

Disassembly of the device may only be carried out by trained personnel who are familiar with and comply with common national regulations and supplementary regulations of the local utility companies.

Work on electrical parts may only be carried out by trained electrical personnel.



### **DANGER!** **Danger of electric shock!**

Disconnecting the device incorrectly from the mains poses a risk of electric shock.

- ▶ Safely disconnect the device from the mains using miniature or automatic circuit breakers, fuses or contactors.
- ▶ Use a suitable measuring device to ensure that the device is de-energised.



### **DANGER!** **Risk of suffocation!**

Parts of the packaging (e.g. films, polystyrene) can be fatal to children.

- ▶ Store packaging materials away from the reach of children.
- ▶ Dispose of packaging correctly and promptly.

## 2.5 Safety instructions, spare parts

**WARNING!**

**Risk of injury and damage to property!**

Incorrect parts can lead to injury to persons or damage to device! Modifications, attachment parts or conversions to device can impair safety.

► Only use original spare parts when carrying out repairs.

## 2.6 Use as intended

The device is solely intended for preparing food in private households.

This device is not designed for:

- use outdoors
- installation in vehicles
- heating the room
- use in non-fixed installation sites (e.g. on ships)
- use with an external timer or separate remote control system.

Not using the device as described in this operating and assembly manual is considered not using the device as intended, as is using it beyond the purpose described here.

BORA shall not assume any liability for damages caused by improper use or incorrect operation.

**All misuse is prohibited!**

---

**INFO** BORA Holding GmbH,  
BORA Vertriebs GmbH & Co KG,  
BORA APAC Pty Ltd and  
BORA Lüftungstechnik GmbH shall  
not assume any liability for damage  
arising from non-adherence to the  
safety and warning instructions.

---

### 3 Technical data

Parameter	Value
Supply voltage	220 - 240 V
Frequency	50/60 Hz
Power consumption	700 W
Dimensions	110 x 540 x 167 mm
Control box dimensions (width x depth x height)	96 x 85 x 76 mm
Weight (incl. accessories/packaging)	5 kg
<b>Cooktop extractor</b>	
Power levels	1 - 9

Tab. 3.1 Technical data

#### Device dimensions

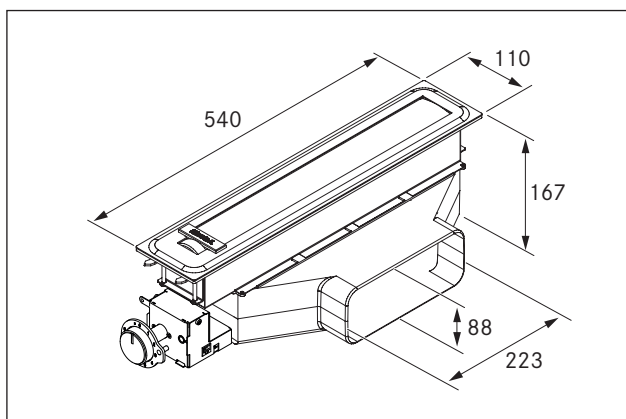


Fig. 3.1 Device dimensions

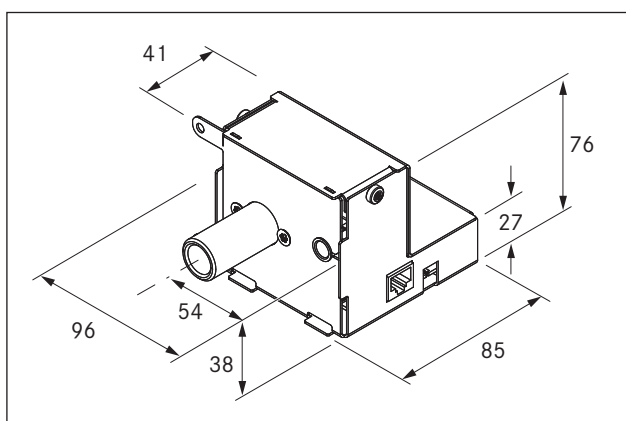


Fig. 3.2 Control box dimensions

## 4 Energy label

Product description		
Professional cooktop extractor system with ULS25 plinth fan	PL540E	
Operating mode	Exhaust air	
Energy consumption	Value	EN standard
Annual energy consumption ( $AEC_{hood}$ )	26 kWh/a	61591
Energy efficiency class	A++	61591
Flow volume		
Fluid dynamic efficiency ( $FDE_{hood}$ )	39.4	61591
Fluid dynamic efficiency class	A	61591
Lighting		
Lighting efficiency ( $LE_{hood}$ )	* lx/Watt	*
Lighting efficiency class	*	*
Grease filtering		
Level 9 maximum ( $GFE_{hood}$ )	50%	61591
Class level 9 normal	F	61591
Flow volume		
Air flow level 1 minimum	232 m <sup>3</sup> /h	61591
Air flow level 9 maximum ( $Q_{max}$ )	626 m <sup>3</sup> /h	61591
Sound power level		
Level 1 minimum	44 dB(A)	60704-2-13
Level 9 maximum	67 dB(A)	60704-2-13
Sound pressure level (additional details)		
Level 1 minimum	32 dB(A)	**
Level 9 maximum	54 dB(A)	**
Details according to 66/2014		
Power consumption in off mode ( $P_o$ )	0 W	61591
Time increase factor	0.6	61591
Energy efficiency index ( $EEl_{hood}$ )	32	61591
Air flow rate at the best efficiency point ( $Q_{BEP}$ )	297 m <sup>3</sup> /h	61591
Pressure at the best efficiency point ( $P_{BEP}$ )	548 Pa	61591
Electric power input at the best efficiency point ( $W_{BEP}$ )	114.7 W	61591

Tab. 4.1 Energy label information

\* This specification is not applicable for this product.

\*\* The sound pressure level has been determined from a distance of 1 m (distance-dependent level recording) on the basis of the sound power level established in EN 60704-2-13.

## 5 Device description

Observe all safety and warning information during operation (see the Safety section).

The cooktop extractor has the following features:

- Power control via a control knob
- Freely adjustable power control
- Cover flap sensor
- Automatic after-run
- Filter service display
- Interface communication
- Safety shut-down

Depending on the model you purchased, the cooktop extractor can be operated as an exhaust air or an recirculating air version.



### Exhaust mode

The air extracted from the cooktop is cleaned by the stainless steel grease filter and released outside through a duct system.

The exhaust air must not be expelled into:

- a smoke or exhaust gas flue that is in operation
- a shaft used for the aeration of rooms where fireplaces are installed.

If the exhaust air is to be directed into a smoke or exhaust gas flue that is not in use, the installation must be checked and approved by the responsible heating engineer.



### Recirculation mode

The air suctioned away by the cooktop is purified by the grease filter and an activated charcoal filter and fed back into the room in which the appliance is installed.

To prevent odours in recirculation mode, an activated charcoal filter must be used. For hygiene and health reasons, the activated charcoal filter must be replaced at the recommended intervals (see the Cleaning and maintenance section).

**INFO** In recirculation mode, ensure sufficient ventilation and aeration to expel humidity.

### 5.1 Structure

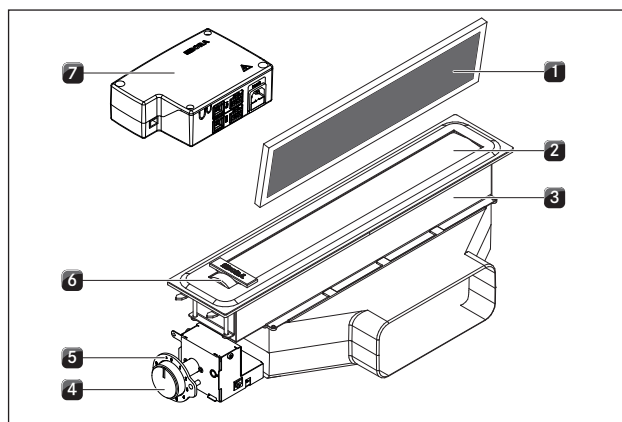


Fig. 5.1 Cooktop extractor

- [1] Stainless steel grease filter
- [2] Cover flap
- [3] Cooktop extractor
- [4] Control knob
- [5] Power level sleeve
- [6] Rotating mechanism
- [7] Universal control unit

### 5.2 Operating panel and operating principle

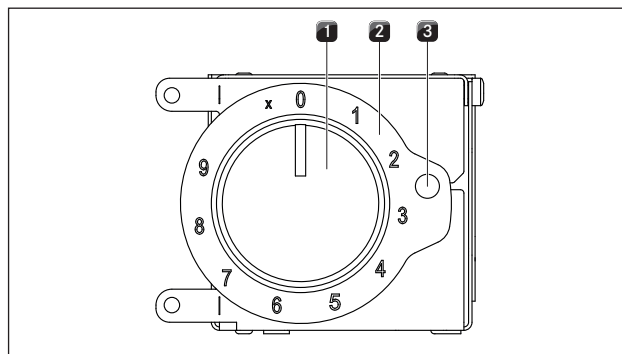


Fig. 5.2 Control knob

- [1] Control knob
- [2] Power level sleeve
- [3] Indicator light

Unit	Display	Meaning
Indicator light	On	Cooktop extractor is switched on and operating
	Off	Cooktop extractor is switched off
	Rapid flashing	Interface display
	Slow flashing	Filter service display
Power level sleeve	0	Cooktop extractor off
	1 to 9	Setting
	x	Deactivate the cooktop extractor

Tab. 5.1 Meaning of display

## Knob operation

The operating panel is equipped with a control knob.

To prevent the cooktop extractor from being switched on accidentally, the control knob is locked at level 0. Press in the control knob and turn it clockwise to the desired power level to release the lock (see the Operation section).

## 5.3 Functional principle of the cooktop extractor

### 5.3.1 Freely adjustable power control

The power levels are controlled by turning the control knob to the desired power level. The interim levels are also considered when regulating the fan performance.

### 5.3.2 Cover flap sensor

The cooktop extractor has a sensor in the cover flap area. This detects the position of the cover flap.

- If the cover flap is closed, the cooktop extractor is deactivated.
- If the cover flap is open, the cooktop extractor can be used.
- If the cover flap is closed during operation, the control knob must be turned to level 0 before the cooktop extractor can be re-activated.

### 5.3.3 Automatic after-run

The cooktop extractor continues to run at a lower level and switches off automatically after 20 minutes.

### 5.3.4 Filter service display

The filter service display becomes active after the cooktop extractor has operated for 400 hours. The activated charcoal filter has reached the end of its service life (with recirculation only) and the stainless steel grease filter needs to be thoroughly cleaned.

The indicator light flashes slowly:

- Before and during normal operation
- During the automatic after-run period

### 5.3.5 Interface communication

The internal interface can be used for extended control options. This has a Home-In and a Home-Out contact (see the Installation section).

- The Home-In contact can be used for the signal input from external switch devices (e.g. window contact switch).
- The Home-Out contact can be used to control external installations.

### 5.3.6 Safety shut-down

The cooktop extractor switches off automatically if no buttons are pressed for 120 minutes.

## 6 Installation

- Observe all safety and warning information (see the Safety section).

<b>INFO</b>	The device must not be installed above cooling devices, dishwashers, stoves, ovens, washing machines or dryers.
<b>INFO</b>	The contact surfaces of the worktops and wall sealing strips must be made of a heat-resistant material (up to approx. 100°C).
<b>INFO</b>	Worktop cut-outs must be moisture-sealed using suitable means or, where necessary, fitted with a thermal insulator.
<b>INFO</b>	If the induction glass ceramic wok is used, the groove dimensions must be increased to 7 mm for flush installation!

### 6.1 Checking the scope of delivery

Name	Quantity
Control box adjustment plates	6
Control knob	1
Operating and installation instructions	1
Fixing nut	1
Control box fixing screws	2
Drilling template	1
Rotating mechanism	1
Stainless steel grease filter	1
Height adjustment plate set	1
Allen key	1
Cooktop extractor	1
CAT 5 communication cable	1
Power level sleeve	1
Mounting bracket	1
Power supply cable	1
Control box	1
Universal control unit USEE	1
Cover flap	1

Tab. 6.1 Scope of delivery

- Check the scope of delivery to make sure everything Tab. 6.1 provided (see table 5.1) and nothing is damaged.
- If there are any missing or damaged parts, please notify BORA After Sales Service.
- Do not under any circumstances install parts which are damaged.

- Dispose of transport packaging in the proper manner (see the Decommissioning, disassembly and disposal section).

### 6.2 Tool and aids

The following tools are required to correctly install the cooktop extractor:

- Pencil
- Tape measure
- Phillips screwdriver Z2
- Standard or cordless drill with Forstner bit Ø30 mm
- Drilling template (included in the scope of delivery)
- Black, heat-resistant silicone sealant
- Fine saw

### 6.3 Assembly instructions

#### 6.3.1 Safety clearances

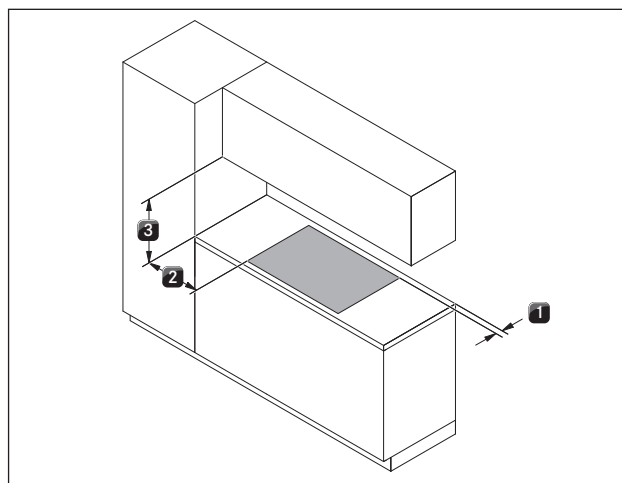


Fig. 6.1 Recommended minimum clearances

- Maintain the following safety clearances:

- [1] Rear minimum clearance of 50 mm between the worktop cut-out and the rear corner of the worktop.
- [2] Minimum clearance of 50 mm from the left and right of the worktop cut-out to the adjacent cabinet or wall. For ergonomic reasons and to ensure efficient cooktop extraction, a minimum clearance of 300 mm is recommended.
- [3] Minimum clearance of 700 mm between the worktop and the wall unit. A minimum clearance of 1000 mm is recommended for ergonomic reasons.

### 6.4 Cut-out dimensions

#### Preparing the worktop

- Create the worktop cut-out.
- Make sure that the cutting surfaces of the worktops are properly sealed.
- Comply with the worktop manufacturer's instructions.

## Worktop overhang

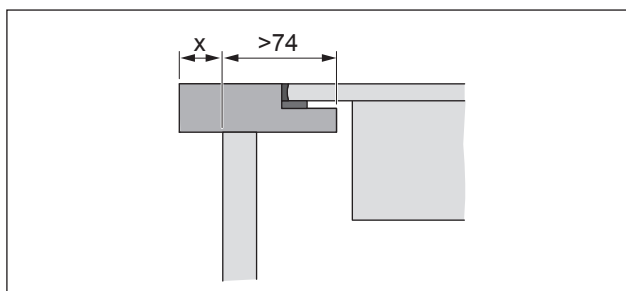


Fig. 6.2 Worktop overhang

- Please note the worktop overhang  $x$  when creating the worktop cut-out. Applies to both flush installation and surface mounting.

## Flush installation

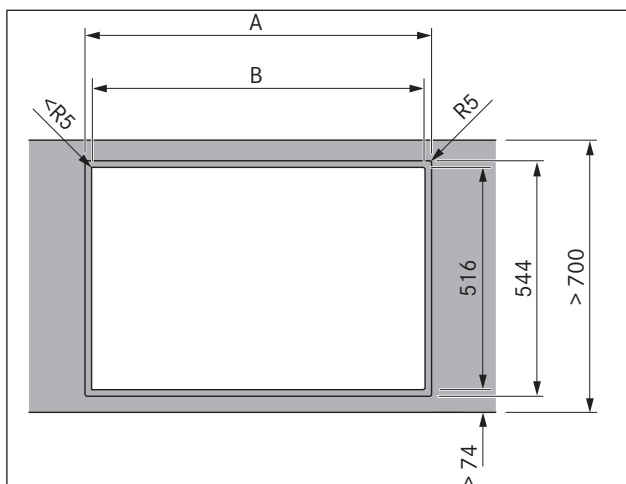


Fig. 6.3 Flush installation

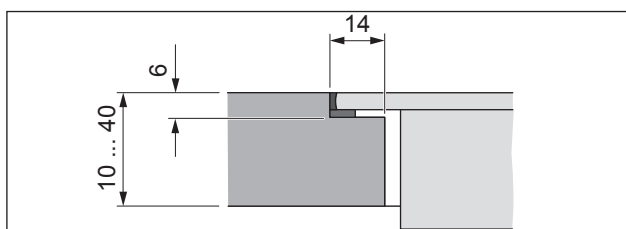


Fig. 6.4 Groove dimensions for flush installation

**INFO** If the induction glass ceramic wok is used, the groove dimensions must be increased to 7 mm for flush installation.

## Surface mounting

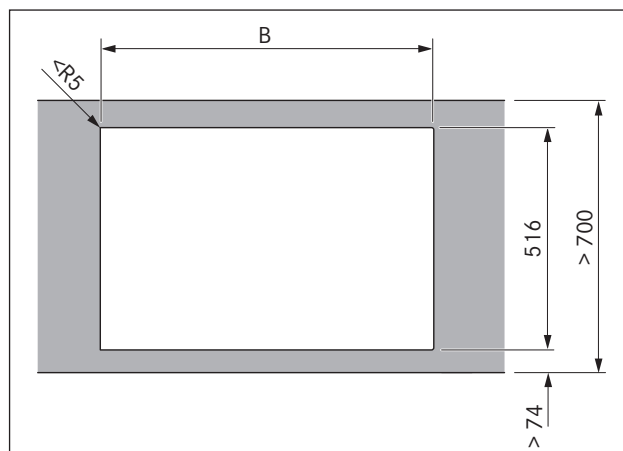


Fig. 6.5 Surface mounting

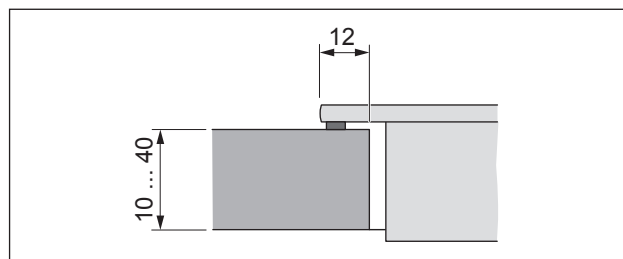









Fig. 6.6 Surface mounting cut-out

Cut-out dimensions when installing cooktops only or cooktops and the cooktop extractor next to each other:

Cooktops/cooktop extractor	A in mm	B in mm
	1/0	374 346
	2/0	745 717
	3/0	1116 1088
	1/1	485 457
	2/1	856 828
	3/2	1338 1310
	4/2	1709 1681

Tab. 6.2 Cut-out dimensions

- Adhere the supplied nameplate (adhesive label) to the back of your operating and installation instructions.

## 6.5 Installing the extraction system

- INFO** A clearance of one millimetre should be planned between the built-in appliances.
- INFO** A clearance of two millimetres should be planned around the built-in appliances.
- INFO** The mounting rail supplied with the cooktop should be installed between the cooktops as well as between the cooktops and the cooktop extractor.
- INFO** Cable protection (false floor) should be mounted below the appliances. This needs to be removable for maintenance work.

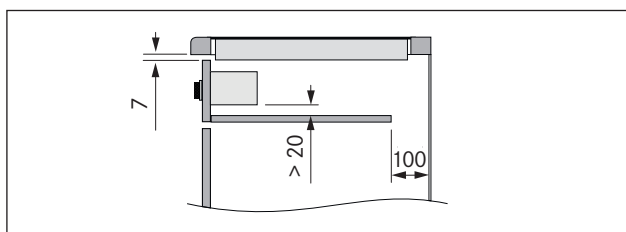


Fig. 6.7 Side view of the cable protection and ventilation

- Cross bars on the kitchen unit in the area of the worktop cut-out may need to be removed.
- The drawers and/or shelves in the floor unit must be removable for maintenance and cleaning purposes.
- A return flow aperture  $> 500 \text{ cm}^2$  is required in the kitchen units for recirculation appliances (e.g. by shortening the plinth boards or using suitable slatted plinths).

### Installation dimensions

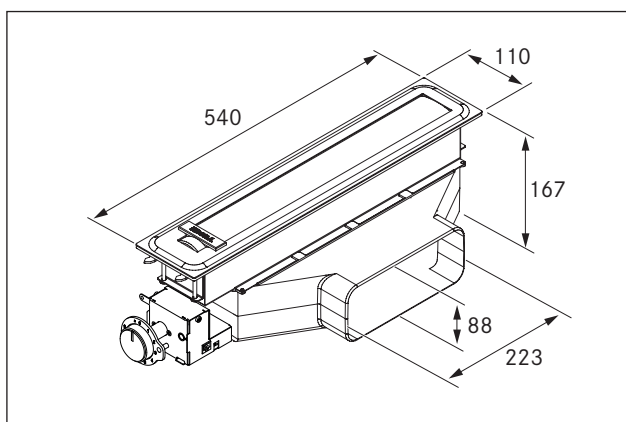


Fig. 6.8 Device dimensions

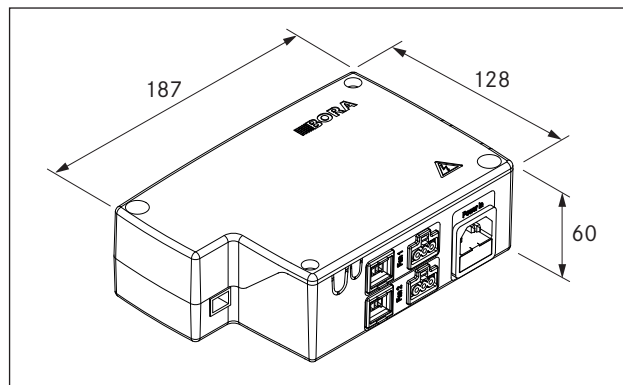


Fig. 6.9 Universal control unit installation dimensions

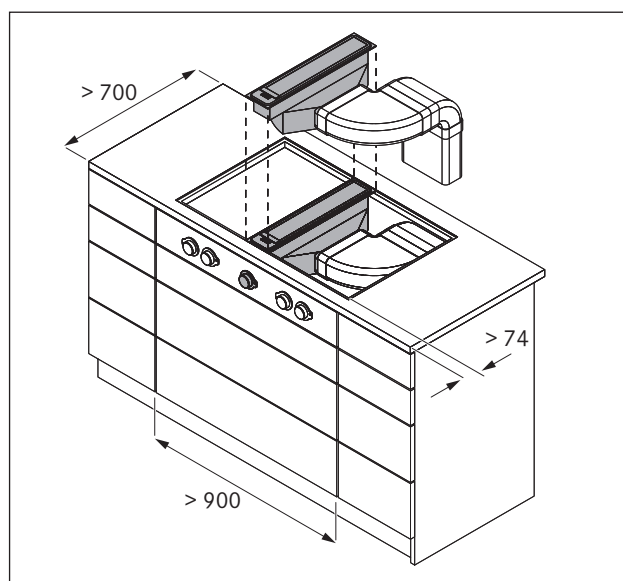


Fig. 6.10 Device installation dimensions

### 6.5.1 Installing the control box behind the floor unit's fixed front panel

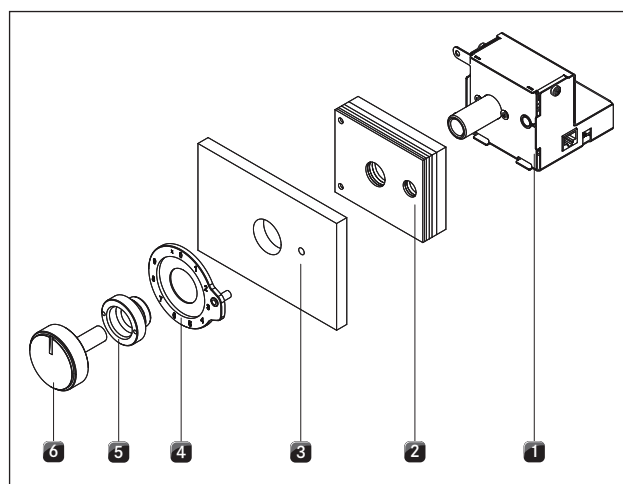


Fig. 6.11 Control box structure

- [1] Control box
- [2] Adjustment plates
- [3] Fixed front panel (not included in the scope of delivery)
- [4] Power level sleeve

- [5] Fixing nut  
[6] Control knob

- Draw the bore hole accordingly with the aid of the drilling template provided.

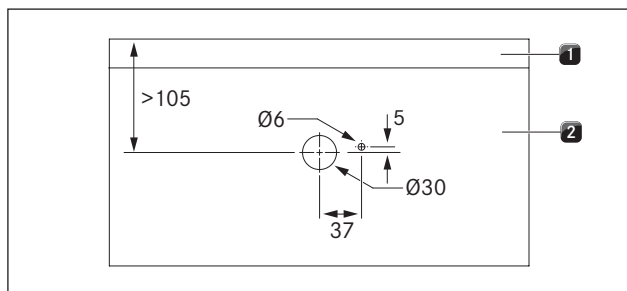


Fig. 6.12 Drilling template

- [1] Worktop  
[2] Fixed front panel

- Pre-drill the bore hole to prevent tearing out the panel.

### Determining the number of adjustment plates

- The total dimensions of the adjustment plates [2] and the fixed front panel [3] should be 36 mm.
- The total dimensions of 36 mm must be adhered to in order to ensure that the control box [1] functions smoothly.

Fixed front panel thickness [mm]	Total thickness of adjustment plates [mm]	Adjustment plates [quantity]			
		10 mm	5 mm	3 mm	2 mm
34	2	-	-	-	1
33	3	-	-	1	-
32	4	-	-	-	2
31	5	-	-	1	1
30	6	-	-	2	-
29	7	-	1	-	1
28	8	-	1	1	-
27	9	-	1	-	2
26	10	1	-	-	-
25	11	-	1	2	-
24	12	1	-	-	1
23	13	1	-	1	-
22	14	1	-	-	2
21	15	1	1	-	-
20	16	1	-	2	-
19	17	1	1	-	1
18	18	1	1	1	-
17	19	1	1	-	2
16	20	1	1	1	1
15	21	1	1	2	-
14	22	1	1	1	2
13	23	1	1	2	1

Tab. 6.3 Adjustment plate overview

### Secure the control box

- Position the power level sleeve [4] on the fixed front panel [3].
- Position the control box [1] with the attached adjustment plates [2] from the back into the bore hole in the fixed front panel.
- Screw on the fixing nut [5] to the mounting bracket and tighten the fixing nut with max. 10 Nm.

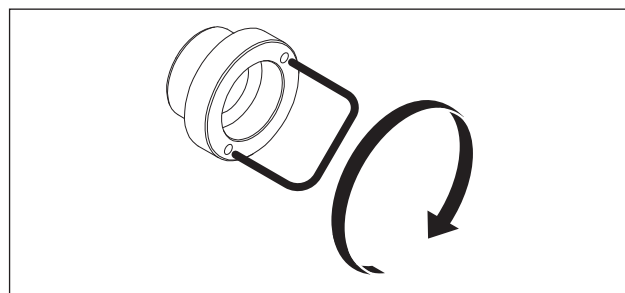


Fig. 6.13 Tighten the fixing nut

- Put on the control knob [6].
- Use the fixing screws provided to screw the control box onto the fixed front panel in a horizontal position from the inside. This prevents the control box from twisting around.

### Adjust the control knob

For fine adjustment, the clearance between the control knob and the power level sleeve can be set.

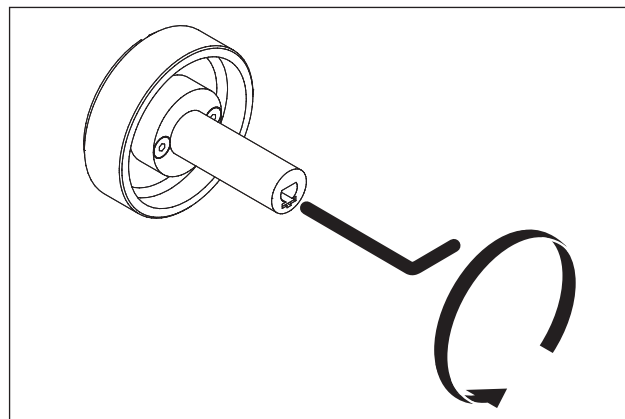


Fig. 6.14 Positioning the control knob

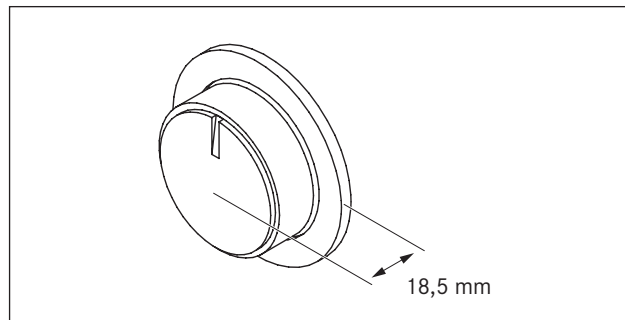


Fig. 6.15 Control knob clearance

### 6.5.2 Installing the cooktop extractor and refitting the exhaust fitting on the left

Depending on requirements, the exhaust fitting can slope down to either the left or the right.

■ The cooktop extractor's exhaust fitting is supplied by default sloping down to the right.

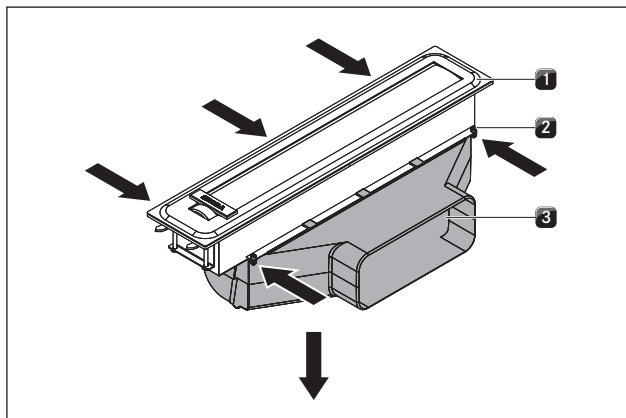


Fig. 6.16 Refitting the exhaust fitting

- [1] Cooktop extractor
- [2] Screw
- [3] Exhaust fitting

- Loosen the five screws [2] on the underside.
- Remove the exhaust fitting [3].

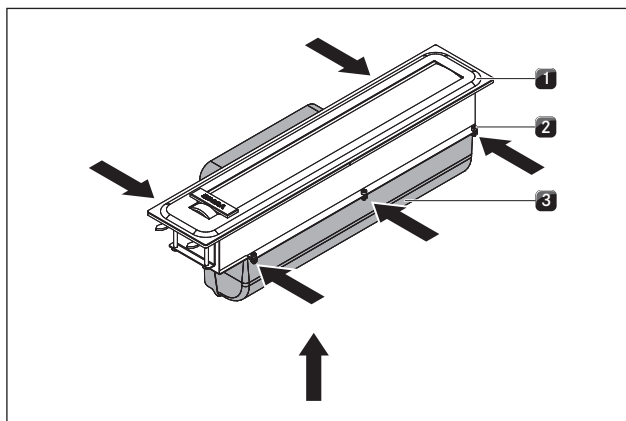


Fig. 6.17 Attaching the exhaust fitting

- [1] Cooktop extractor
- [2] Screw
- [3] Exhaust fitting

- Position the exhaust fitting [3] rotated by 180°.
- Fasten the five screws [2].
- Make sure that no air gap has formed between the components.

### Installing the cooktop extractor

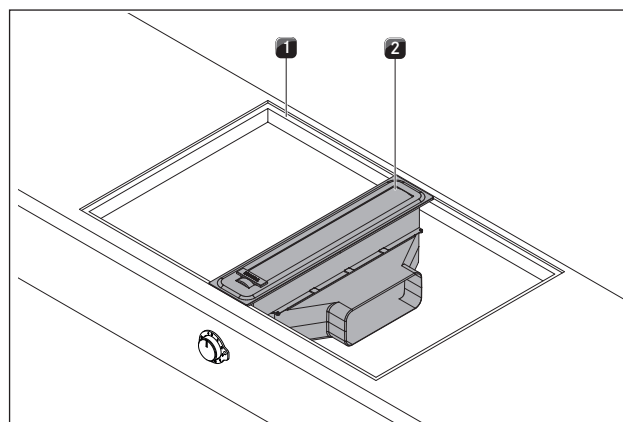


Fig. 6.18 Installing the cooktop extractor

- [1] Cooktop cut-out
- [2] Cooktop extractor

- Place the cooktop extractor [2] in the middle of the relevant worktop cut-out.
- Precisely position the cooktop extractor.

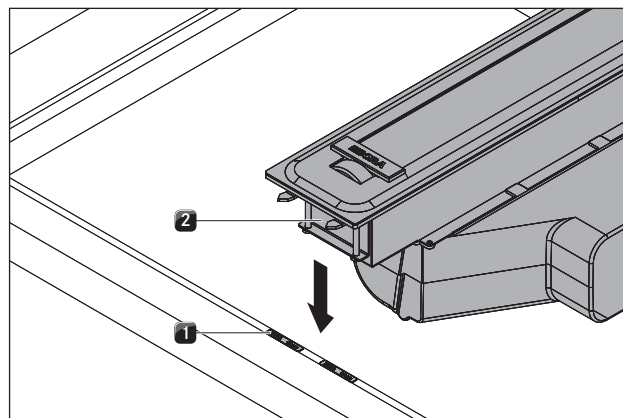


Fig. 6.19 Height adjustment plates

- [1] Height adjustment plate
- [2] Cooktop extractor

- If applicable, insert the height adjustment plates [1].

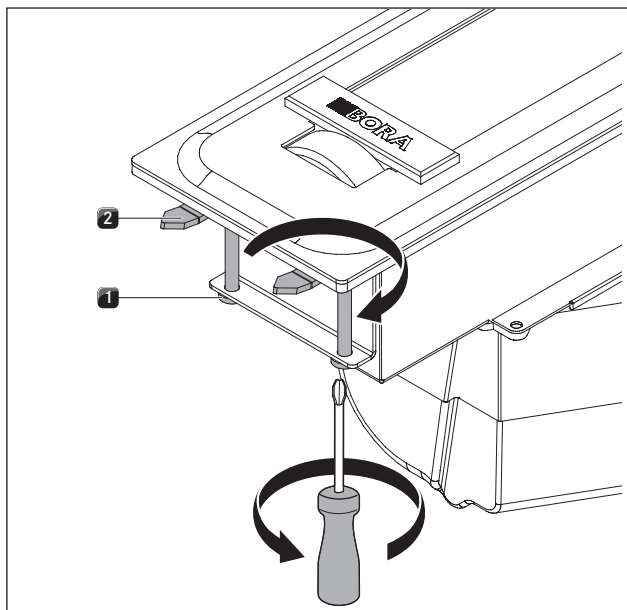


Fig. 6.20 Securing the cooktop extractor

[1] Tensioning screw

[2] Clamp

- ▶ Turn the four clamps [2] under the worktop.
- ▶ Tighten the clamp screws [1] with max. 10 Nm.
- ▶ Verify that the alignment is correct.
- ▶ Once all of the installation work is complete, seal the devices with black, heat-resistant silicone sealant.

### 6.5.3 Preparing for installation – standard set-up

**INFO** The floor unit must not be supported on the plinth fan housing.

**INFO** For correct installation, the slide-in units of the base cabinet must be shortened depending on the installation situation.

- ▶ Now adjust the ducting parts to the height of the worktop.
- ▶ Saw out the necessary cut-outs for the ducting in the rear panel of the floor unit.
- ▶ Depending on the installation situation, adjust the levelling feet on the floor unit as necessary.
- ▶ Prepare the plinth fan by attaching the sealing tape depending on the installation situation.
- ▶ Secure the sealing tape to the inlet nozzle.

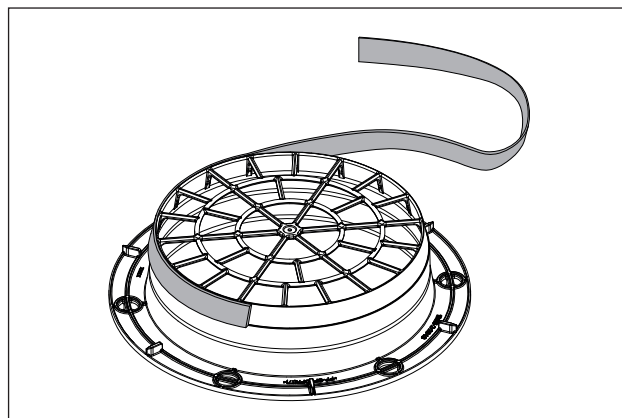


Fig. 6.21 Sealing tape position for installation with a round duct

■ Depending on the required connection cross-section, you can vary the height at which the sealing tape is attached to the plinth fan inlet nozzle.

- ▶ Secure the sealing tape on the outlet nozzle.

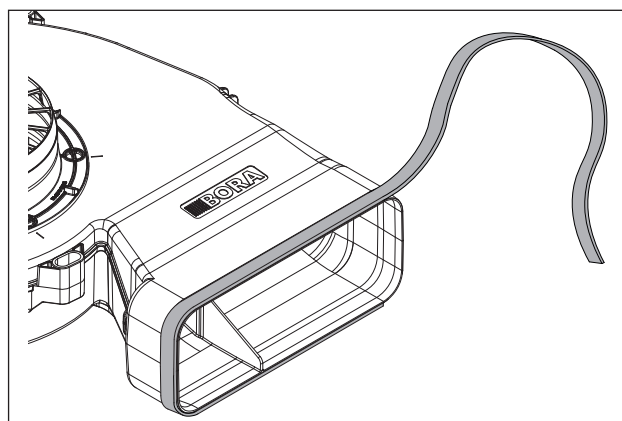


Fig. 6.22 Sealing tape position for installation with a transition piece (shallow duct)

**INFO** When attaching the sealing tape, ensure that an airtight seal with the connection duct piece is created when the tape is compressed.

### 6.5.4 Installation – standard set-up

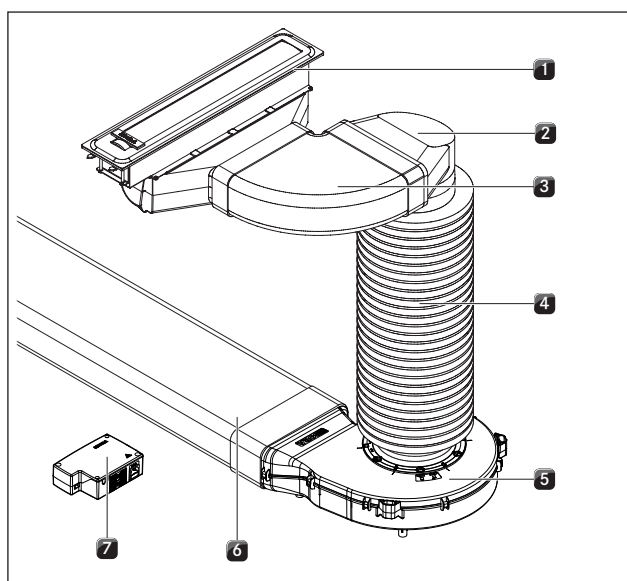


Fig. 6.23 Standard set-up

- [1] Cooktop extractor
- [2] 90° diverter
- [3] Horizontal tube bend
- [4] Silencer
- [5] Universal plinth fan
- [6] Air duct/recirculation unit
- [7] Universal control unit

- Push the tube bend [3] onto the exhaust fitting of the cooktop extractor [1].
- Push the 90° diverter [2] onto the tube bend [3].
- Position the plinth fan [5].
- To facilitate positioning, the inlet nozzle on the plinth fan can be removed. To do this, please see the assembly instructions for the ULS25 universal plinth fan.
- Connect the silencer [4] to the plinth fan [5].
- Connect the silencer [4] to the 90° diverter [2].
- Use the UDB25 sealing tape (not included in the scope of delivery) to adhere together the connections for the ducting sections with an air tight join.
- You can also optimally adhere together the connections between the ducting sections and the plinth fan with UDB25 sealing tape.

**INFO** Position the plinth fan and the universal control unit in such a way that they are easily accessible and removable for maintenance work.

- The maximum exhaust air duct length with a fan is 6 m.
- The minimum cross-section of the air ducts must be 176 cm<sup>2</sup>, which equates to a round pipe with a diameter of 150 mm.
- For the ducting, only use stable duct elements with smooth pipe interiors. Do not use flexible or fabric tubes.

- The exhaust air must be directed outside or to the recirculation unit through appropriate ducts.
- For further planning examples and notices, please see the ventilation handbook (not included in the scope of delivery).

#### Installing the additional fan

- Install the additional fan in the exhaust duct.
- Ensure that a minimum clearance of 300 cm is maintained between the fan units.
- Only use BORA universal fans with your BORA cooktop extractor system.

#### Operating the cooktop extractor with a fireplace that depends on the air in the room

**INFO** The state and regional laws and regulations must be observed with regard to the exhaust duct design. A sufficient air supply must be ensured.

Fireplaces that depend on the air in the room (e.g. gas, oil, wood or coal-fired heaters, continuous-flow water heaters, instantaneous water heaters) draw in air from the room in which they are installed and release the exhaust fumes into the outside air via an exhaust system (e.g. chimney).

If the cooktop extractor is used in exhaust mode, it draws in air from the room in which it is installed as well as from neighbouring rooms. If there is insufficient air supply, low pressure will occur. Toxic gases could be drawn out of the chimney or extraction ducting and back into the room.

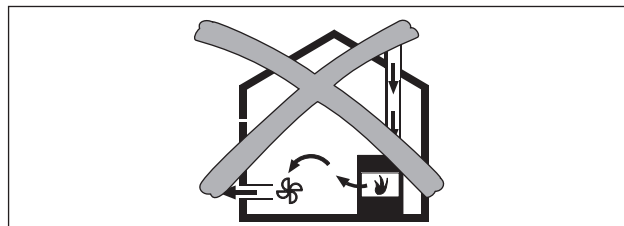


Fig. 6.24 Exhaust air installation – not permitted

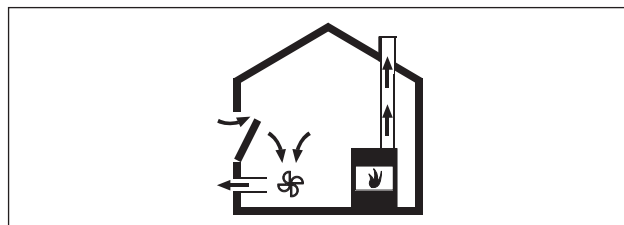


Fig. 6.25 Exhaust air installation – correct

- If simultaneously operating both a fireplace and the cooktop extractor in the same room, ensure that:
  - the maximum low pressure is 4 Pa ( $4 \times 10^{-5}$  bar);
  - a safety device (e.g. window contact switch, low pressure warning device) is used to ensure that a sufficient supply of fresh air is guaranteed;
  - the exhaust air is not be ducted into a chimney that is used for exhaust gases of devices operated with gas or other combustibles;
  - the installation is checked and approved by an authorised certified engineer (e.g. heating engineer).

## 6.6 Establishing the power connection and communication

- Observe all safety and warning information (see the Safety section).
- Observe all national and regional laws and regulations as well as the supplementary regulations of the local utility companies.
- The plug for the power supply must be accessible following installation.
- If the power supply cable has been damaged this must be replaced.

### Connecting the universal control unit and fan to the cooktop extractor control box

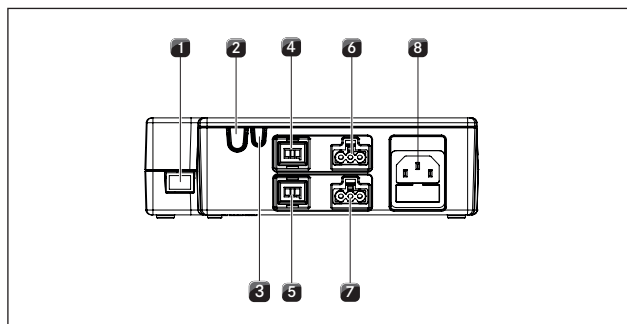


Fig. 6.26 Connections on the universal control unit

- [1] CAT 5 communication cable
- [2] Home-Out
- [3] Home-In
- [4] Fan 1 control line
- [5] Fan 2 control line
- [6] Fan 1 power supply cable
- [7] Fan 2 power supply cable
- [8] Power supply cable with microfuse

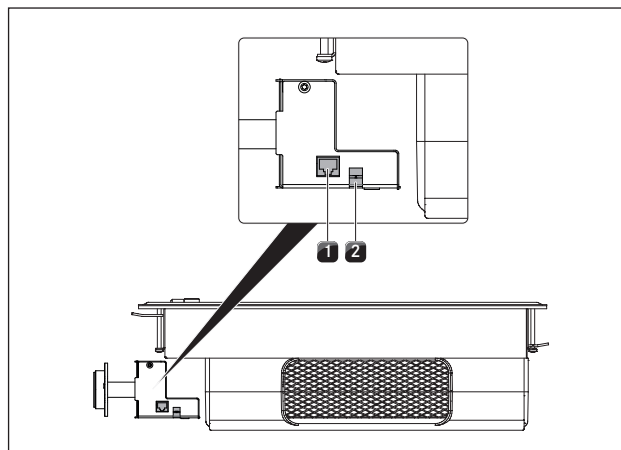


Fig. 6.27 Control box connections

- [1] CAT 5 communication cable connection
- [2] Cover flap connection cable

- Connect the CAT 5 communication cable between the control box connection [1] and the universal control unit [1].
- Connect the cable for the cover flap sensor to the control box [2].

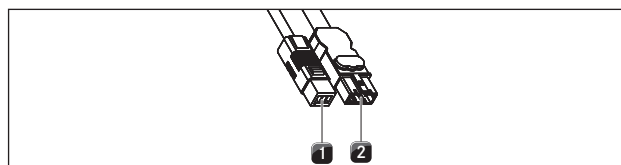


Fig. 6.28 Connection plug of the plinth fan

- [1] Connection plug of the plinth fan control line
- [2] Connection plug of the plinth fan power supply cable

- Connect the plinth fan's control line [1] to the universal control unit [4].
- Connect the plinth fan's power supply cable [2] to the universal control unit [6].

### Release the power supply cable

To release the power supply cable [2] from the universal control unit [6] you need a small flathead screwdriver.

- Disconnect the universal control unit's power supply cable from the power supply [8].
- Make sure that there is no power to the appliance.
- Use the flathead screwdriver to loosen the lock on the power supply cable's plug.
- To do this, insert the flathead screwdriver into the gap in the socket.
- Press the lock down gently.
- Use the flathead screwdriver to gently lever the plug of the power supply cable out of the universal control unit's socket.
- Now disconnect the power supply cable from the socket.
- Check the plug and the socket for damage.
- Do not use damaged components.

- Contact your BORA specialist supplier to replace any damaged components.

### Connecting the additional fan

- Connect the fan's control line [1] to the universal control unit [5].
- Connect the fan's power supply cable [2] to the universal control unit [7].
- Check all the plug connections to ensure that they are secure.

## 6.7 Connecting external switch contacts

**INFO** The Home-In and Home-Out communication connections must only be connected by a certified specialist. The specialist also assumes responsibility for the proper installation and commissioning.

When using Home-In and Home-Out, you will require the relevant documents for the external switch devices in order to ensure safe device connection and operation. The following switch contacts can be used:

Contact	Function	Connection
Home-In	Cooktop extractor on/off connection for external switch contact (contact closed: cooktop extractor on)	24 VDC 100 mA
Home-Out	Electrically isolated contact for controlling external installations depending on the operating status of the cooktop extractor (cooktop extractor on: contact closed)	Maximum 250 VAC / 30 VDC, 2.5A

Tab. 6.4 Switch contacts

**INFO** The Home-In contact can be used for external safety devices (e.g. window contact switches). If the switch is open, the cooktop extractor is out of operation.

- Ensure that the universal control unit is disconnected from the power supply.

### Preparing the universal control unit

- Remove the screws from the universal control unit.
- Lift up the cover.

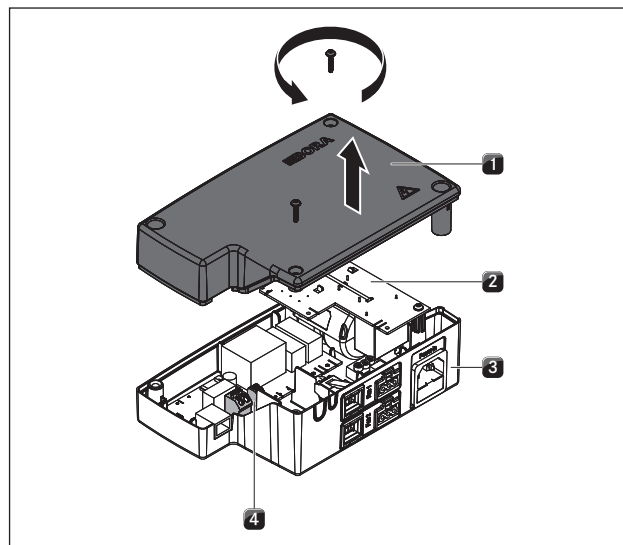


Fig. 6.29 Open the universal control unit's cover

- [1] Cover
- [2] Electronic unit
- [3] Base unit
- [4] Switch contact clamp

**INFO** The electronic unit [2] can contain residual charge. You must therefore be careful not to touch the exposed contacts on the electronic unit!

### Preparing connection cables for external switching equipment

Use the following types of connection cables from the following manufacturers to connect external switching equipment.

Contact	Connection cable
Home-In	H03VV-F 2x0.5mm <sup>2</sup>
Home-Out	H03VVH2-F 2x0.75mm <sup>2</sup>

Tab. 6.5 Connection cable

**INFO** The connection cable is only intended for indoor use in buildings, private homes, kitchens or offices!

**INFO** The overall length of the connection cable for external switching equipment must not exceed 10 m!

For reasons of electromagnetic compatibility, all connection cables from external switch devices must be filtered with a ferrite sleeve. This is not included in the scope of delivery.

- Use the order code UFH (universal filter sleeve) to order the filter sleeve from your specialist supplier or contact BORA via the website at [www.bora.com](http://www.bora.com).

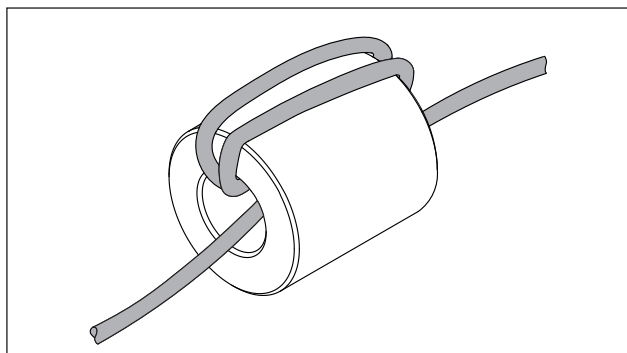


Fig. 6.30 Wrap the connection cable round the ferrite sleeve three times

- ▶ Wrap the connection cable around the ferrite sleeve three times to create the desired filter performance.
- ▶ Ensure that the cable end protrudes at least 120 mm from the sleeve.
- ▶ Prepare the connection cable in accordance with the prescribed stripping lengths.

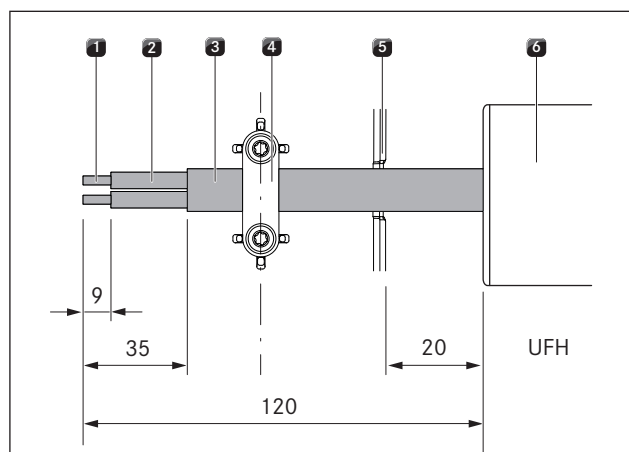


Fig. 6.31 Stripping lengths and assembly position of the connection cable in the universal control unit

- [1] Stripped wire end
- [2] Insulated wire
- [3] Jacketed cable
- [4] Strain relief clamp
- [5] Cable feed snap-out element
- [6] Universal ferrite sleeve (UFH)

- Please adhere to the maximum stripping length of 9 mm on the stripped wire end [1].
- Please adhere to the maximum stripping length of 26 mm on the insulated wire [2].

### Installing the external switch device

Depending on the type of switch device, connect the connection cables to either the Home-In or the Home-Out connection clamp.

- ▶ Adhere to the connection diagram when connecting Home-In and Home-Out.

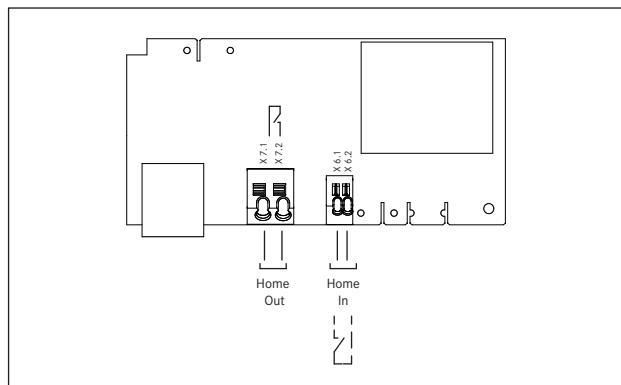


Fig. 6.32 Connection diagram for the external switch contacts

- ▶ Connect the cable for the relevant contact to the switch contact clamp [4] in accordance with the relevant connection diagram (see fig. Connection diagram for the external switch contacts).
- In order to connect the Home-In interface, the installed bridge must be removed.

**INFO** The Home-In contact must be bridged if this is not used (bridged on delivery).

- For connections to the Home-In connection clamp, no ferrules may be used.
- ▶ Clamp the connection cable in the strain relief clamp [4] in accordance with the wire cross section used.

**INFO** If external switching devices are connected both to the Home-In and Home-Out interfaces, both cables should be secured with the strain relief claim [4].

- ▶ Remove the relevant snap-out element [2] in the plastic housing of the universal control unit.

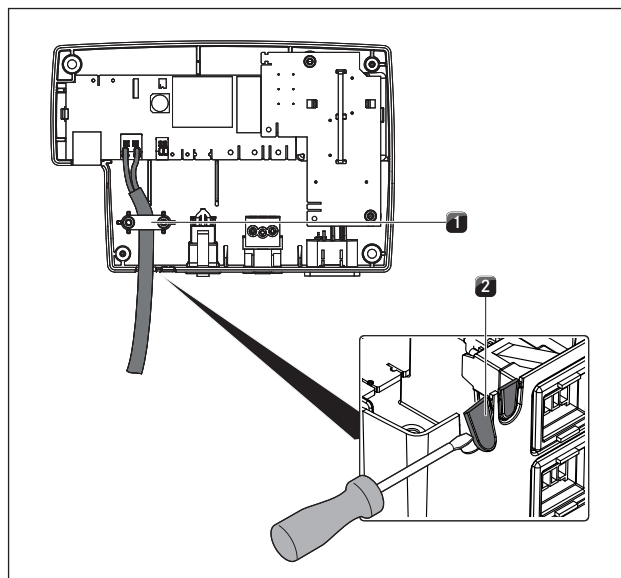


Fig. 6.33 Home-Out contacts with strain relief

- [1] Strain relief clamp
- [2] Snap-out element for cable feed

- ▶ Check the correct installation, as well as the firm positioning of the connection cables.
- ▶ Close the cover on the universal control unit.
- ▶ Make sure that the cable is not damaged.
- ▶ Switch on the main switch/automatic circuit breaker.

### **Establishing the power connection**

- ▶ Connect the power supply cable for the universal control unit to the power supply.
- ▶ Put the cooktop extractor into operation (see the Operation section).
- ▶ Check all the functions are working correctly.

## **6.8 Handover to user**

Once installation is complete:

- ▶ Explain the main functions to the user.
- ▶ Explain all safety-related aspects of operation and handling to the user.
- ▶ Provide the user with the accessories and operating and installation instructions to be kept in a safe place.

## 7 Operation

- Observe all safety and warning information during operation (see the Safety section).

<b>INFO</b>	The cooktop extractor must only be operated with BORA cooktops.
<b>INFO</b>	The cooktop extractor only works if the cover flap is open.
<b>INFO</b>	The cooktop extractor should only be operated with the stainless steel grease filter, the rotating mechanism and the cover flap installed.

### 7.1 Operating the cooktop extractor

#### Recommendations for efficient vapour extraction

- Always use a lid on pots that are particularly high. This ensures effective vapour extraction. It also reduces power consumption.
- Only operate the cooktop extractor at the minimum power level required for effective vapour extraction. This enables you to improve the performance of the odour filters in recirculation mode.
- Only operate the hob at the minimum power level required for cooking. This reduces the cooking vapours and the power consumption.
- Avoid strong drafts.

#### 7.1.1 Opening the cover flap

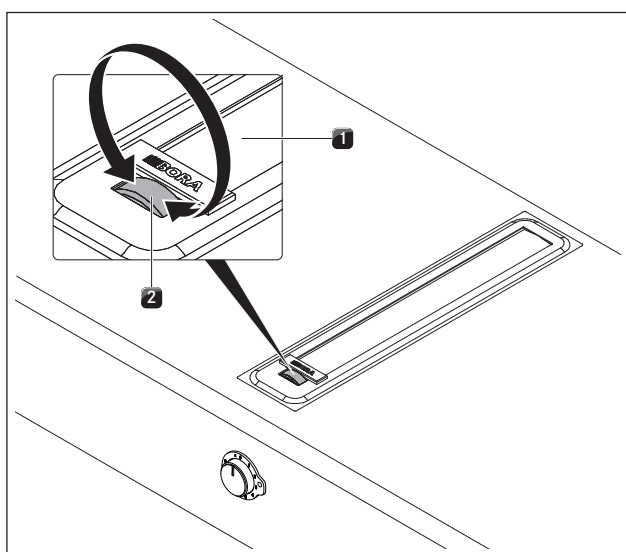


Fig. 7.1 Opening the cover flap

- [1] Cover flap
- [2] Control wheel
- [3] Indicator light

- Use the control wheel [2] to open the cooktop extractor's cover flap [1]. Depending on the direction in which the cover flap has been inserted, it is opened by turning the control wheel to the left or the right.

#### Switching on the cooktop extractor

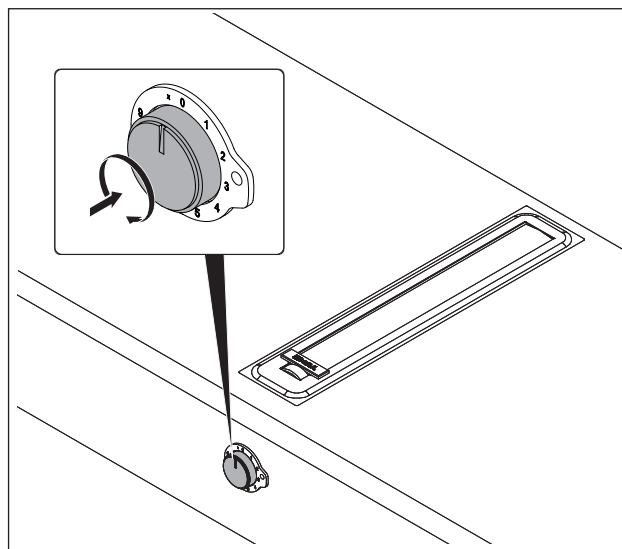


Fig. 7.2 Switching on the cooktop extractor

- Press in the control knob and turn it to level 1 to switch on the cooktop extractor.
- The indicator light comes on.

#### Switching off the cooktop extractor

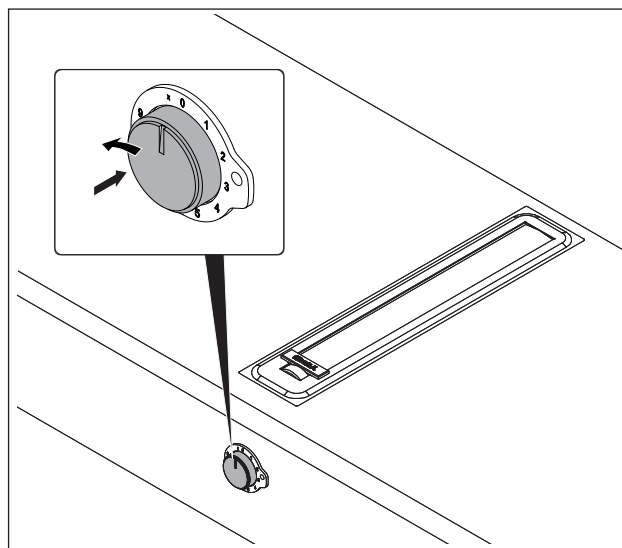


Fig. 7.3 Switching off the cooktop extractor

- Press in the control knob and turn it to level x.
- Next, turn it back to level 0.
- The control knob locks into place and the cooktop extractor switches off.
- The indicator light switches off.

### 7.1.2 Adjusting the power level

- ▶ Turn the control knob clockwise to increase the power level.
- ▶ Turn the control knob anti-clockwise to reduce the power level.

### 7.1.3 Automatic after-run

#### Activation

- ▶ Turn the control knob to level 0. The control knob locks into place at this setting and the after-run is automatically activated.
- The cooktop extractor switches off automatically after 20 minutes.

#### Early deactivation

- ▶ Press in the control knob and turn it to level x.
- The automatic after-run is deactivated and the cooktop extractor switches off.
- The indicator light switches off.

## 7.2 Note the filter service function

If the indicator light flashes slowly but continually, the service life of the activated charcoal filter has expired (with recirculation only) and the stainless steel grease filter needs to be thoroughly cleaned.

The filter service display is shown every time the cooktop extractor is switched on and remains active until the filter has been changed and the filter service display has been reset. The cooktop extractor can still be operated without limitations.

#### Changing the filter

- ▶ Switch off the cooktop extractor.
- ▶ Observe all the information provided in the Cleaning section.
- ▶ Replace the activated charcoal filter.
- ▶ Clean the stainless steel grease filter.

#### Resetting the filter service display

If the activated charcoal filter has been replaced and the stainless steel grease filter has been cleaned, it will be necessary to reset the filter service display.

- ▶ Press in the control knob and turn it to level x.
- The indicator light flashes slowly.
- ▶ Hold the control knob at level x for 5 seconds until the indicator light remains on.
- The filter service display has been reset.
- The filter service display can only be reset if a filter service is due after 400 operating hours.

### 7.2.1 Closing the cover flap

- ▶ Close the cooktop extractor after switching it off by turning the control wheel for the rotating mechanism to close the cover flap.

## 8 Cleaning and Maintenance

- Observe all safety and warning information (see the Safety section).

**INFO** Clean the stainless steel surfaces in the polishing direction only.

- Regular cleaning and maintenance ensures the longevity of the product and optimal function.
- Adhere to the following cleaning and maintenance cycles:

Component	Cleaning cycle
Cooktop extractor interior and surface	After cooking very greasy dishes; at least once a week
Cover flap, rotating mechanism and stainless steel grease filter	After cooking very greasy dishes; at least once a week
Activated charcoal filter (with recirculation only)	Replace if odours have built up or the service life has expired (see the operating instructions for the activated charcoal filter)
Control knob	Immediately after every soiling

Tab. 8.1 Cleaning cycles

### 8.1 Cleaning agents

**INFO** Due to the use of aggressive cleaning agents and abrasion caused by the pot bases the surface will become damaged and dark stains will occur.

- Never use steam cleaners, abrasive sponges, scouring pads or chemically aggressive cleaning agents (e.g. oven cleaner spray).
- Make sure that the cleaning agent does not contain any sand, soda, acids, lyes or chloride.

### 8.2 Cleaning the cooktop extractor

Grease particles and limescale residues from cooking vapours can settle on the surface and in the extraction system.

- Make sure that the cooktop extractor is switched off (see the Operation section).
- Remove the cover flap, rotating mechanism and stainless steel grease filter prior to cleaning.
- Clean the cooktop extractor in accordance with the cleaning cycles.
- Clean the surfaces using a soft, damp cloth, detergent or a mild window cleaning agent.
- Soften dried on dirt using a damp cloth (do not scrape it off!).

#### 8.2.1 Removing the cover flap, rotating mechanism and stainless steel grease filter

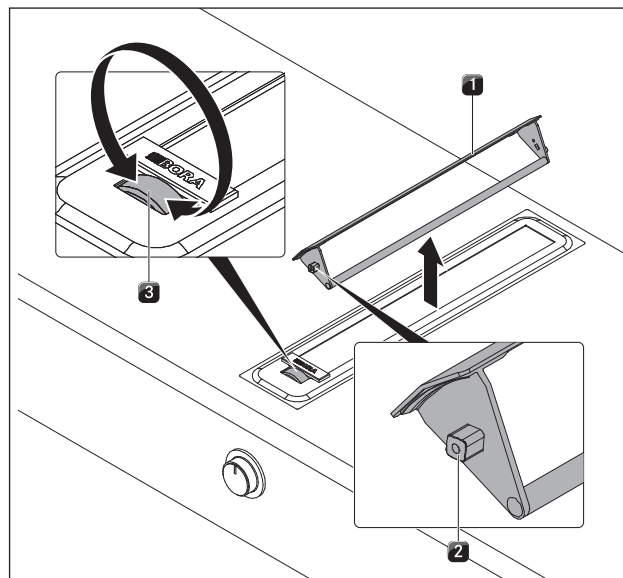


Fig. 8.1 Removing the cover flap

- [1] Cover flap
- [2] Tappet
- [3] Control wheel

- Use the control wheel [3] to turn the cover flap [1] to the middle setting.
- Lift the cover flap off upwards.

**INFO** When removing the cover flap, ensure that it is at an angle of approximately 45° so that the tappet [2] glides cleanly out of the rotating mechanism.

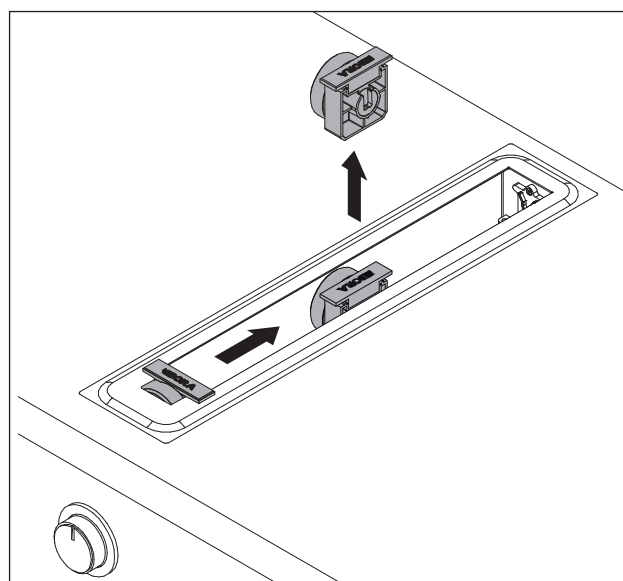


Fig. 8.2 Removing the rotating mechanism

- Push the rotating mechanism to the middle of the cooktop extractor.
- Turn the rotating mechanism 90° clockwise.
- Lift the rotating mechanism off upwards.

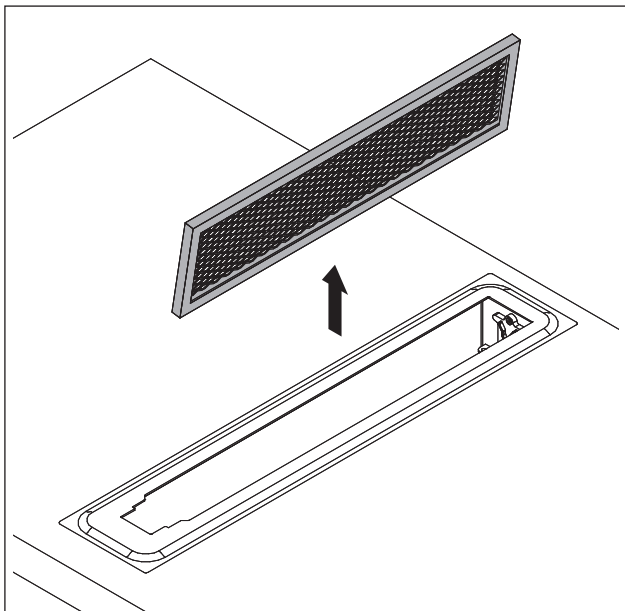


Fig. 8.3 Removing the stainless steel grease filter

- Reach into the opening in the cooktop extractor and remove the stainless steel grease filter.

### 8.2.2 Cleaning the cover flap, rotating mechanism and stainless steel grease filter

- The cover flap, rotating mechanism and stainless steel grease filter can be cleaned manually or in a dishwasher.

#### Manual cleaning

- Use a cleaner and degreaser in one.
- Rinse the cover flap, rotating mechanism and stainless steel grease filter with hot water.
- Clean the cover flap, rotating mechanism and stainless steel grease filter with a soft brush.
- Rinse the components well after cleaning.

#### Cleaning in the dishwasher

- Rinse the cover flap, rotating mechanism and stainless steel grease filter with a rinsing program at maximum 65 °C.
- The stainless steel grease filter absorbs the greasy particles from cooking vapours.
- If it is no longer possible to clean the stainless steel grease filter completely, it must be replaced.

### 8.2.3 Installing the cover flap, rotating mechanism and stainless steel grease filter

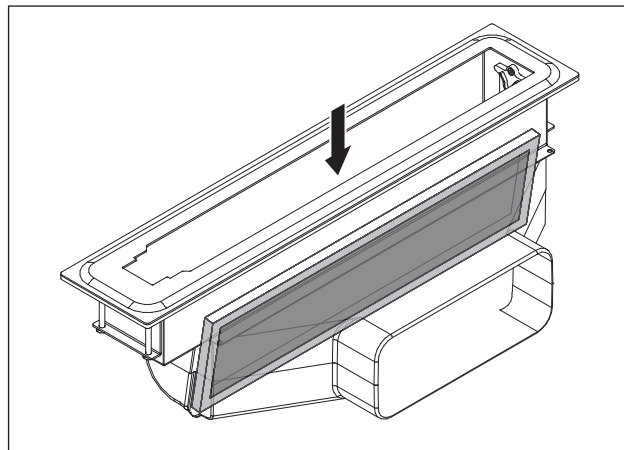


Fig. 8.4 Inserting the stainless steel grease filter

- Insert the stainless steel grease filter into the opening in the cooktop extractor.
- Ensure that the stainless steel grease filter is positioned in the gap in the cooktop extractor housing; it does not need to be locked into place.

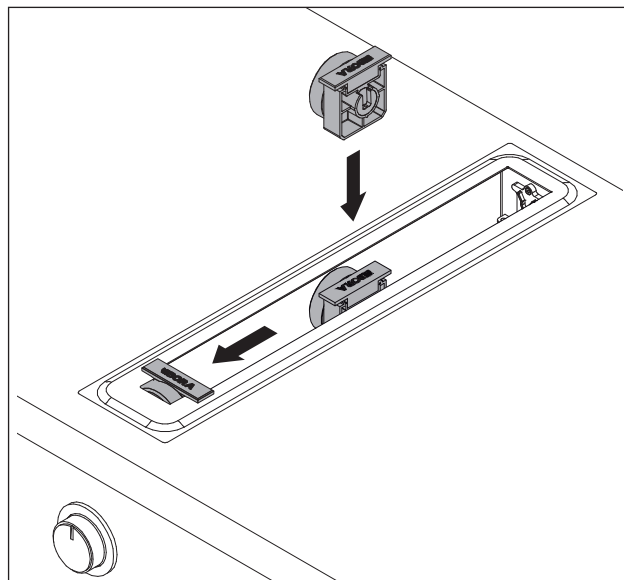


Fig. 8.5 Inserting the rotating mechanism

- Insert the rotating mechanism by turning it 90° anti-clockwise at the level of the cooktop extractor.
- Push the rotating mechanism into the intended position.

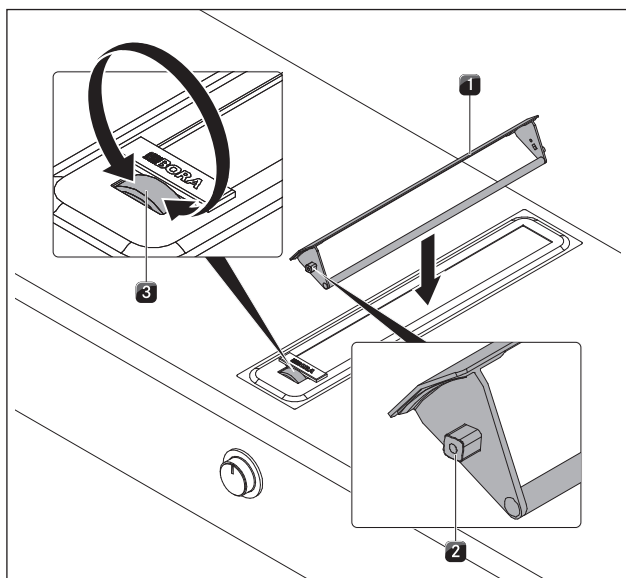


Fig. 8.6 Inserting the cover flap

- [1] Cover flap
- [2] Tappet
- [3] Control wheel

- Turn the control wheel [3] to the middle position.
- Insert the cover flap [1].

**INFO** When fitting the cover flap, ensure that it is at an angle of approximately 45° so that the tappet glides cleanly into the rotating mechanism.

### 8.3 Cleaning the control knobs

- Make sure that the cooktop extractor is switched off (see the Operation section).

**INFO** Only clean the control knob manually.

- Pull off the control knob.
- Clean the control knob with a soft brush.
- Rinse the control knob well after cleaning.
- Allow the control knob to dry thoroughly.
- Push the control knob onto the control box axle.

### 8.4 Replacing the activated charcoal filter

In recirculation mode, an additional activated charcoal filter is used. The activated charcoal filter absorbs cooking odours. The activated charcoal filter is installed on the plinth fan or the duct system.

**INFO** Regularly replace the activated charcoal filter. The service life can be found in the operating instructions for the relevant activated charcoal filter.

**INFO** You can obtain activated charcoal filters from your specialist supplier or by contacting BORA via the website at [www.bora.com](http://www.bora.com).

- A description of how to replace the activated charcoal filter can be found in its operating instructions.
- Reset the filter service display (see the Device description section).

## 9 Troubleshooting

► Observe all safety and warning information (see the Safety section).

Operating situation	Cause	Remedy
The cooktop extractor cannot be switched on.	The fuse or automatic circuit breaker of the electrical wiring system in the apartment and/or house is defective.	Replace the fuse. Switch the automatic circuit breaker back on.
	The fuse or the automatic circuit breaker trips several times.	Call the BORA Service Team.
	The power supply is disconnected.	Have a specialist electrician inspect the power supply.
	The microfuse in the universal control unit's cooling device plug is defective.	Replace the fuse (type: T3, 15 A/250 V).
The indicator light flashes rapidly for 5 seconds and the fan is switched off.	The Home-In contact is broken.	When using a window contact switch (safety device), the window must be open when the fan is operating.
	The safety device is defective.	Call the BORA Service Team.
Odours form when operating the cooktop extractor.	This is normal on brand-new appliances.	Odours stop forming after a few operating hours.
The extraction performance of the cooktop extractor has decreased.	The stainless steel grease filter is heavily soiled.	Clean or replace the stainless steel grease filter.
	The activated charcoal filter is heavily soiled (recirculation only).	Replace the activated charcoal filter.
	There is an object in the air guiding housing (e.g. cleaning cloth).	Remove the object.
	The fan is defective or a duct connection has become loose.	Call the BORA Service Team.

Tab. 9.1 Resolving a fault

► In all other instances, call the BORA Service Team (see the Warranty, service and spare parts chapter).

## 10 Decommissioning, disassembly and disposal

- Observe all safety and warning information (see Safety chapter).
- Follow the enclosed manufacturer's information.

### 10.1 Decommissioning

Decommissioning is considered the final decommissioning and disassembly. After decommissioning, the device can either be built into another piece of furniture, sold on privately, or disposed of.

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**INFO** Disconnecting and connecting the electricity and gas connection may only be carried out by certified experts.

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- Switch off the device before decommissioning (see Operating chapter)
- Disconnect the device from the voltage supply.

### 10.2 Disassembly

The removal requires that the device is accessible for disassembly and was separated from the voltage supply. On gas-powered devices, make sure that the gas connection is complete.

- Undo the mounting brackets.
- Remove the silicone joints.
- Disconnect the duct from the cooktop extractor.
- Remove the device from the worktop upwards.
- Remove further accessory parts.
- Remove the old appliance and dirty accessory as described under "Disposing of the product in an environmentally friendly way".

### 10.3 Disposing of the product in an environmentally friendly way

#### Disposal of transport packaging

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**INFO** The packaging protects the device against transport damages. The packaging is made of materials that are environmentally friendly and easy to dispose of and can therefore be recycled.

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Returning the packaging material into the material cycle saves resources and reduces the waste production. Your specialist supplier will take the packaging back.

- Hand the packaging to your specialist supplier or
- Dispose of the packaging properly taking into account the regional regulations.

#### Disposing of the old appliance



Electrical devices marked with this symbol should not be disposed of as household waste at the end of its life. They must be taken to a collection centre for recycling electrical or electronic non-heating appliances. For information, please contact your city or local authorities.

Waste electric and electronic equipment often still contains valuable materials. They do, however, also contain harmful substances that were required for their correct functioning and safety. When disposed of in the residual waste or if not handled correctly, they may cause harm to the health of people and the environment.

- Therefore do not dispose of your old appliance as household waste.
- Take the old appliance to a regional collection centre for return and recycling of electronic and electrical parts and other materials.

## 11 Warranty, service and spare parts

- Observe all safety and warning information (see Safety chapter).

### 11.1 Warranty

The warranty period shall be 2 years.

### 11.2 Service

#### **BORA Service:**

see reverse side of operating and assembly instructions



- In the case of faults you cannot fix yourself, contact your BORA specialist supplier or the BORA Service Team.

The After Sales Service will require the type designation and the serial number of your device (FD number). This information is provided on the nameplate or on the back of the manual as well as on the device.

### 11.3 Spare parts

- Only use original spare parts when making repairs.

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<b>INFO</b>	Spare parts can be obtained from your BORA dealer, the BORA online service website at <a href="http://www.bora.com/service">www.bora.com/service</a> or by calling the service number provided.
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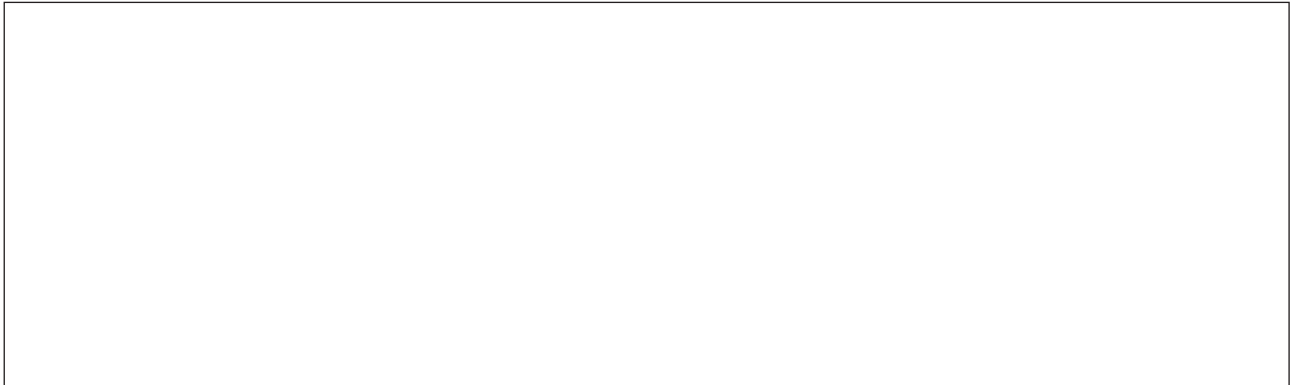
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## 12 Notes:





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