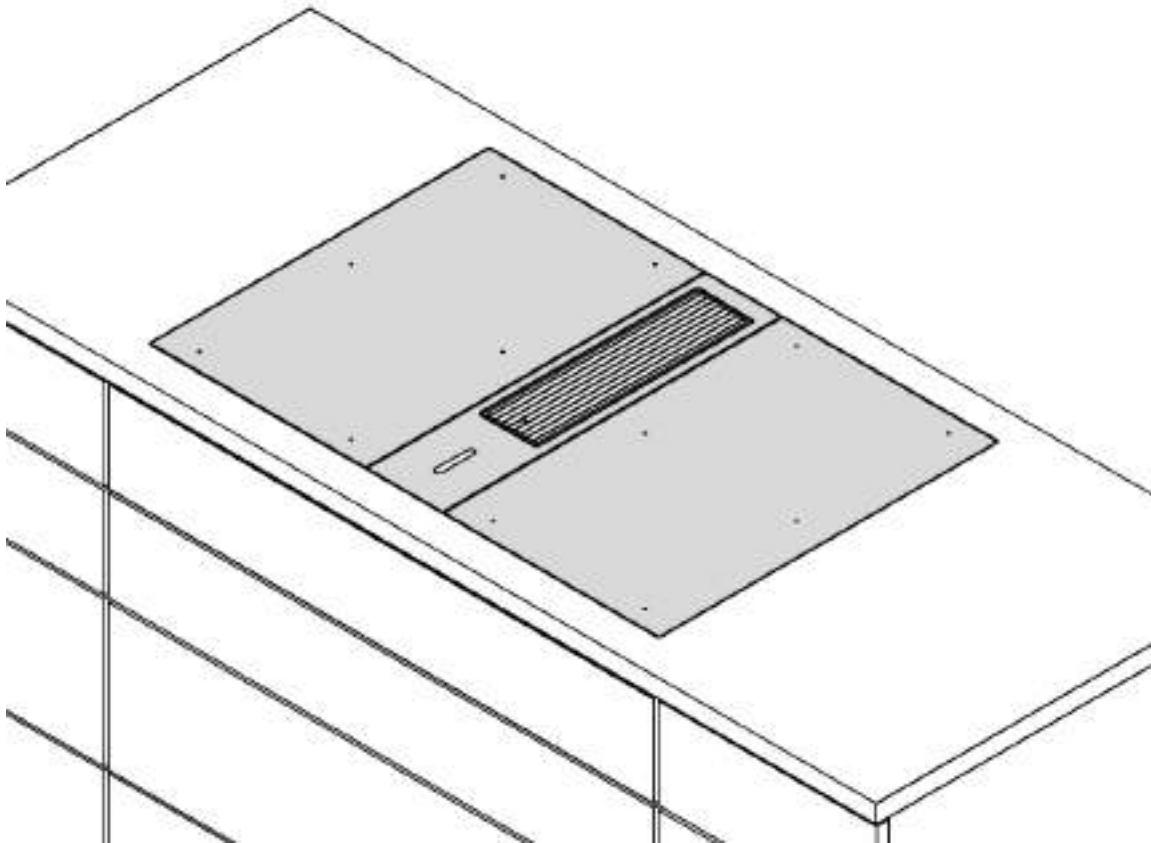


EN Installation instructions Classic 2.0



000078-10008

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1 General information

These instructions contain important information to protect you from injury and prevent damage to the appliance. Please read these instructions carefully before installing or using the appliance for the first time.

Other documents apply alongside these instructions. Please by all means adhere to all documents that form part of the scope of delivery.

Assembly, installation and commissioning must always occur in line with national laws, regulations and standards. The work must be performed by qualified specialists who know and comply with the additional regulations of the local energy supply companies. All safety and warning information as well as the handling instructions in the accompanying documents must be observed.

1.1 Validity of the operating and installation instructions

 These instructions describe the BORA Classic 2.0 system with software version 03.00.

These instructions apply to several appliance versions. It is therefore possible that some of the features described do not apply to your appliance. The details of the figures contained herein may differ from some appliance versions and are to be understood as schematic diagrams.

1.2 Liability

. BORA Holding GmbH, BORA Vertriebs GmbH & Co KG, BORA APAC Pty Ltd and BORA Lüftungstechnik GmbH – hereinafter referred to as BORA – do not assume any liability for damage arising from disregard for or non-adherence to the documents included in the scope of delivery!

Furthermore, BORA shall not be held liable for damage caused by improper installation or failure to observe the safety and warning information!

1.3 Product conformity

Directives

The appliances meet the following EU/EC directives:

- 2014/30/EU EMC Directive
- 2014/35/EU Low Voltage Directive
- 2009/125/EC Ecodesign Directive
- 2011/65/EU RoHS Directive

Regulations

Gas appliances meet the following EC directives:

- (EU) 2016/426 regulation on appliances burning gaseous fuels

1.4 Data privacy

During operation your cooktop extractor saves pseudonymised data such as menu settings entered by you, operating hours of the individual technical units and the number of functions selected. Furthermore, your cooktop extractor documents errors in combination with the number of operating hours. Data can only be

read out manually via your cooktop extractor. This decision is therefore your responsibility. These saved data then enable a rapid error search and troubleshooting in the event of servicing.

1.5 Presentation of information

We use standard formatting, numbering, symbols, safety instructions, terms and abbreviations so that you can work quickly and safely when using this manual. The article described in these instructions is hereinafter also referred to as an appliance.

Instructions are indicated with an arrow.

► Always follow all instructions in the prescribed order.

Enumerations are indicated with a bullet point at the start of the line:

- Enumeration 1
- Enumeration 2

 Information notes point to special features that must be taken into account.

1.5.1 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:

DANGER

Type and source of danger

Results of non-compliance

► Measures to minimise risk

Please note:

- warning symbols draw attention to a high risk of injury.
- The signal word indicates the severity of that risk.

Warning symbol	Signal word	Risk
	Danger	Indicates an immediate, hazardous situation which causes death or serious injury if not respected.
	Warning	Indicates a potentially hazardous situation which can cause death or serious injury if not respected.
	Caution	Indicates a potentially hazardous situation which can cause death or serious injury if not respected.
	Note	Indicates a potentially hazardous situation which can cause property damage if not respected.

Tab. 1.1 Meaning of the warning symbols and signal words

1.5.2 Figures

All measurements are provided in millimetres.

2 Safety

The appliance complies with the stipulated safety requirements. The user is responsible for the safe use of the appliance, cleaning and maintenance. Improper use can lead to personal injury and damage to property.

2.1 Intended use

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

This appliance is not intended for:

- outdoor use
- heating rooms
- cooling, ventilating or dehumidifying rooms
- use in mobile installation sites such as motor vehicles, ships or aeroplanes
- use with an external timer or a separate remote control system (except for emergency shutdown in the case of the cooktop extractor)
- use at altitudes of over 2000 m (metres above sea level)
- use when not fully installed

Any other use or any use that goes beyond that which is described here is classed as unintended.



BORA does not assume any liability for damages caused by incorrect installation, improper use or incorrect operation.

All misuse is prohibited!

2.2 General safety instructions

DANGER

Packaging components are a choking hazard

Packaging components (e.g. film, polystyrene) can be life-threatening for children.

- ▶ Store all packaging components out of reach of children.
- ▶ Dispose of the packaging properly and immediately.

DANGER

Risk of electric shock or injury from damaged surfaces

The underlying electronics can be exposed or damaged due to fissures, fractures or cracks in appliance surfaces (e.g. damaged glass), particularly in the vicinity of the operating unit. This can cause an electrical shock. Furthermore, a damaged surface can cause injuries.

- ▶ Do not touch the damaged surface.
- ▶ If there are any cracks, fissures or fractures, switch the appliance off immediately.
- ▶ Securely disconnect the appliance from the mains using the circuit breaker, fuses, automatic circuit breakers or contactor.
- ▶ Contact BORA Service.

WARNING

Risk of injury or damage due to incorrect components or unauthorised modifications

Incorrect components can lead to personal injury or damage to the appliance. Modifications, additions or alterations to the appliance can lead to safety risks.

- ▶ Only use original components.
- ▶ Do not make any modifications, additions or alterations to the appliance.

WARNING

Risk of injury due to mechanical damage on the appliance

Mechanical damage (e.g. cracks, deformation, separation of adhesive seals, etc.) to the appliance, as well as to cables and accessories can cause injuries.

- ▶ Do not operate the appliance.
- ▶ Do not try to repair or replace damaged components yourself.
- ▶ Contact BORA Service.

CAUTION

Appliance components can cause injury if dropped

Appliance components can cause injury if you drop them.

- ▶ Place any appliance components that have been removed in a safe place near the appliances.
- ▶ Ensure that no components removed from the appliances can fall on the floor.

CAUTION**Risk of injury from heavy lifting**

If not handled correctly, carrying and installing appliances can cause injury to the limbs or torso.

- ▶ If necessary, carry and install the appliance with another person.
- ▶ Use appropriate aids to prevent damage or injury.

CAUTION**Damage from improper use**

The appliance surfaces must not be used as work or storage surfaces. This can damage the appliances (particularly in the case of hard and sharp objects).

- ▶ Never use the appliances as work or storage surfaces.
- ▶ Keep hard or sharp objects away from the appliance surfaces.

PLEASE NOTE**Faults and errors**

In the event of faults or incorrect use, error messages will be displayed.

- ▶ In the case of faults and errors, follow the instructions in the “Troubleshooting” chapter.
- ▶ In the event of any faults or errors that are not mentioned, switch the appliance off and contact BORA Service.

PLEASE NOTE**Appliance damage caused by pets**

Pets may damage the appliance or injure themselves.

- ▶ Keep pets away from the appliance.

2.3 Safety information for installation** DANGER****Risk of injury from incorrect assembly**

Failure to observe the installation instructions can lead to injury.

- ▶ The appliance must only be installed and assembled by trained specialists who are familiar with and comply with the standard national regulations and supplementary regulations of the local utility companies.
- ▶ Work on electrical components must only be conducted by trained electrical personnel.
- ▶ Conduct all work extremely attentively and conscientiously.
- ▶ Before handing the appliance or system over to the end user, ensure that it has been correctly installed.

** DANGER****Risk of electric shock from damaged appliance**

A damaged appliance can cause an electric shock.

- ▶ Check the appliance for visible damage prior to installation.
- ▶ Do not install or connect any damaged appliances.
- ▶ Do not operate any damaged appliances.

** DANGER****Risk of electric shock from incorrect stripping of cables**

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 control unit.
- ▶ Ensure that the stated stripping lengths are adhered to.

PLEASE NOTE**Appliance damage caused by incorrect wiring**

The electrical safety of the appliance is only guaranteed if it is connected to a protective conductor system that has been installed in line with regulations.

- ▶ Work on electrical components must only be conducted by trained electrical personnel.
- ▶ Ensure that this basic safety precaution is met. The appliance must be suitable for the regional voltage and frequency.
- ▶ Check the information on the identification plate and in the event of deviations, do not connect the appliance.
- ▶ Do not connect the appliance to the mains until the duct system has been installed or the recirculation filter has been fitted.
- ▶ Only use the connection cables supplied.

PLEASE NOTE**Appliance damage caused by incorrect installation clearances**

Failure to adhere to installation clearances can lead to damage to the appliance and kitchen units, as well as restricted functions.

- ▶ During installation maintain the minimum clearance stated in the Installation chapter.

2.3.1 Safety instructions – cooktop extractor installation

⚠ DANGER**Risk of smoke inhalation**

When the cooktop extractor is used in exhaust air mode, it draws in air from the room it is installed in and from neighbouring rooms. Without sufficient air, there will be a drop in air pressure. When used at the same time as a fireplace that is dependent on the air in the room, noxious gases can be sucked into the living areas from the chimney or outlet shaft.

- ▶ Make sure that there is always a sufficient air supply.
- ▶ Only use reliable, tried-and-tested switching devices, (e.g. window contact switch, low pressure warning device) and have them approved by a qualified expert (certified chimney sweep).

⚠ WARNING**Risk of injury due to turning fan wheel**

There is a risk of injury while the fan is turning.

- ▶ Only install the device with the power disconnected.
- ▶ Connect both sides of the fan to the duct system before commissioning.

CAUTION**Risk of injury due to turning fan wheel**

The vicinity of the fan can be reached if the exhaust air system has short, straight ducts.

- ▶ In the case of ducts measuring less than 900 mm, a safety guard must be fitted (available as an accessory).

2.3.2 Safety information for cooktop installation

⚠ DANGER**Risk of electric shock from damaged power supply cable**

If the power supply cable is damaged (e.g. during installation or by coming into contact with hot cooking surfaces), this can cause an (lethal) electric shock.

- ▶ Make sure that the connection cable does not become trapped or damaged.
- ▶ Make sure that the power supply cable does not come into contact with hot cooking surfaces.

⚠ DANGER**Risk of electric shock from incorrect mains connection**

Connecting the appliance to the mains incorrectly poses a risk of electric shock.

- ▶ Make sure that the appliance has a fixed connection to the mains voltage.
- ▶ Make sure that the appliance is connected to a properly installed protective conductor system.
- ▶ Make sure that technical equipment is provided to enable all of the appliance's poles to be disconnected from the mains with a contact opening width of at least 3 mm (circuit breaker and automatic circuit breakers, fuses, contactor).

⚠ DANGER**Risk of explosion and asphyxiation from gas**

Leaking gas can lead to an explosion and result in severe injuries and property damage, or asphyxiation.

- ▶ Keep sources of ignition (naked flames, electric fires) away and do not operate any light switches, or switches on electrical appliances.
- ▶ Do not remove plugs from sockets (risk of sparking).
- ▶ Close the gas supply immediately and turn off the mains supply.
- ▶ Ensure there is a good supply of fresh air (open doors and windows).
- ▶ Plug any leaks immediately.
- ▶ Before connecting the appliance, check that the appliance settings comply with local connection requirements (gas type and pressure).

⚠ WARNING**Risk of injury from incorrect gas installation**

Failure to observe the gas installation instructions can lead to injury.

- ▶ Gas installation, appliance installation and replacing the gas nozzles, as well as changing the gas type and pressure, may only be carried out by reliable trained specialists, who are familiar with and comply with the standard national regulations and supplementary regulations of the local utility companies.
- ▶ Observe the special instructions on changing the gas type and pressure and the specifications for changing the gas nozzles in the nozzle table (see Operating instructions).
- ▶ BORA gas cooktops must only be used with BORA cooktop extractors.

2.4 Safety instructions – repairs, servicing and spare parts**⚠ DANGER****Risk of injury when carrying out repairs**

Insufficient expertise can lead to injury when carrying out repairs.

- ▶ The appliance must only be repaired and serviced by trained specialists who are familiar with and comply with the standard national regulations and supplementary regulations of the local utility companies.
- ▶ Safely disconnect the appliance from the mains supply.
- ▶ Work on electrical components must only be conducted by trained electrical personnel.
- ▶ A damaged power supply cable must be replaced by a suitable power supply cable.

⚠ WARNING**Risk of injury or damage from improper repairs**

Incorrect components can lead to personal injury or damage to the appliance. Modifications, additions or alterations to the appliance can lead to safety risks.

- ▶ Only use original spare parts for repairs.
- ▶ Do not make any modifications, additions or alterations to the appliance.

CAUTION**Risk of injury during repair of gas appliances**

Insufficient expertise can lead to injury when disassembling the appliance.

- ▶ The gas connection must only be worked on by reliable trained specialists who are familiar with and comply with the standard national regulations and supplementary regulations of the local utility companies.

2.5 Safety instructions – disassembly and disposal

DANGER

Risk of injury during disassembly

Insufficient expertise can lead to injury when disassembling the appliance.

- ▶ It must only be disassembled by trained specialists who are familiar with and comply with the standard national regulations and supplementary regulations of the local utility companies.
- ▶ Safely disconnect the appliance from the mains supply.
- ▶ Work on electrical components must only be conducted by trained electrical personnel.

DANGER

Risk of electric shock from incorrect disconnection

Incorrectly disconnecting the appliance from the mains results in a risk of electric shock.

- ▶ Safely disconnect the appliance from the mains supply.
- ▶ Use an authorised measuring device to ensure that there is no power to the appliance.
- ▶ Do not touch exposed contacts on the electronic unit as they may contain residual charge.

DANGER

Risk of electric shock from residual charge

Electrical components in the appliance can contain residual charge and cause an electric shock.

- ▶ Do not touch any exposed contacts.

CAUTION

Risk of injury during disassembly of gas appliances

Insufficient expertise can lead to injury when disassembling the appliance.

- ▶ The gas connection must only be worked on by reliable trained specialists who are familiar with and comply with the standard national regulations and supplementary regulations of the local utility companies.

3 Technical data

3.1 CKA2/CKA2AB

Parameter	Value
Supply voltage	220–240 V
Frequency	50–60 Hz
Power consumption (incl. additional universal fans)	550 W
Fuse protection (internal)	TR 3.15 A
Dimensions (width x depth x height)	439 x 515 x 190 mm
Weight (incl. accessories and packaging)	7.5 kg
Surface material	Glass, stainless steel and plastic
Cooktop extractor	
Power levels	1 – 5, P
Connection on the exhaust side	Ecotube

Tab. 3.1 Technical data CKA2/CKA2AB

Appliance dimensions

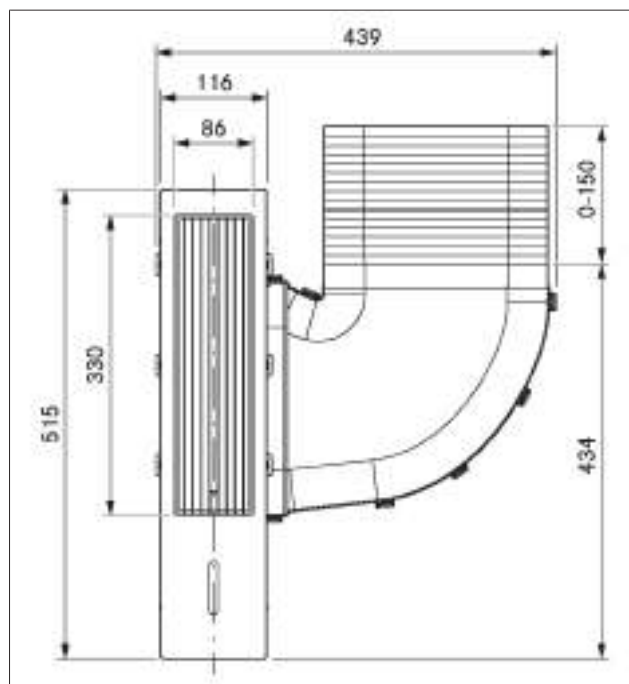


Fig. 3.1 CKA2/CKA2AB appliance dimensions from above

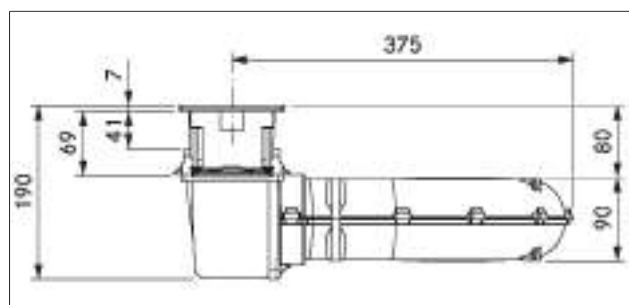


Fig. 3.2 CKA2/CKA2AB appliance dimensions front view

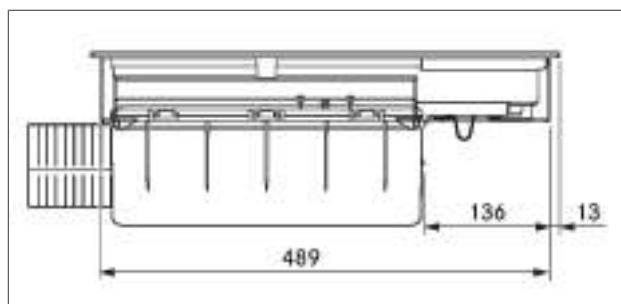


Fig. 3.3 CKA2/CKA2AB appliance dimensions side view

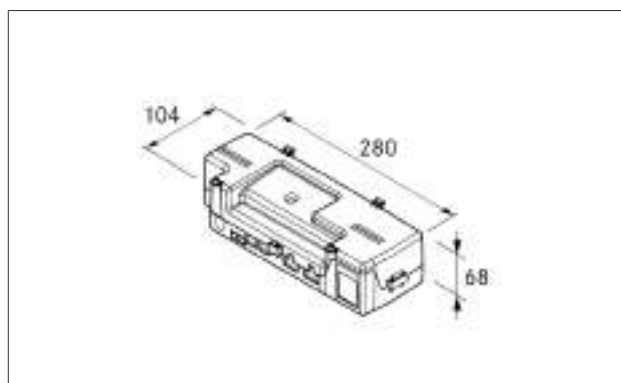


Fig. 3.4 Control unit dimensions

3.2 CKFI

Parameter	Value
Supply voltage	220–240 V
Frequency	50–60 Hz
Power consumption	3680 W
Fuse protection	1 x 16 A
Cooktop dimensions	327 x 515 x 58 mm
Weight (incl. accessories and packaging)	7.9 kg
Cooktop	
Power levels	1–9, P
Heat retention levels	3
Front cooking zone size	230 x 230 mm
Front cooking zone output	2100 W
Front cooking zone power setting output	3680 W
Rear cooking zone size	230 x 230 mm
Rear cooking zone output	2100 W
Rear cooking zone power setting output	3680 W
Bridged cooking zone dimensions	230 x 460 mm
Cooktop energy consumption	
Front cooking zone	196.7 Wh/kg
Rear cooking zone	177.1 Wh/kg
Cooking zones bridged	204.7 Wh/kg
Total (average)	192.8 Wh/kg

Tab. 3.2 Technical data CKFI

Appliance dimensions

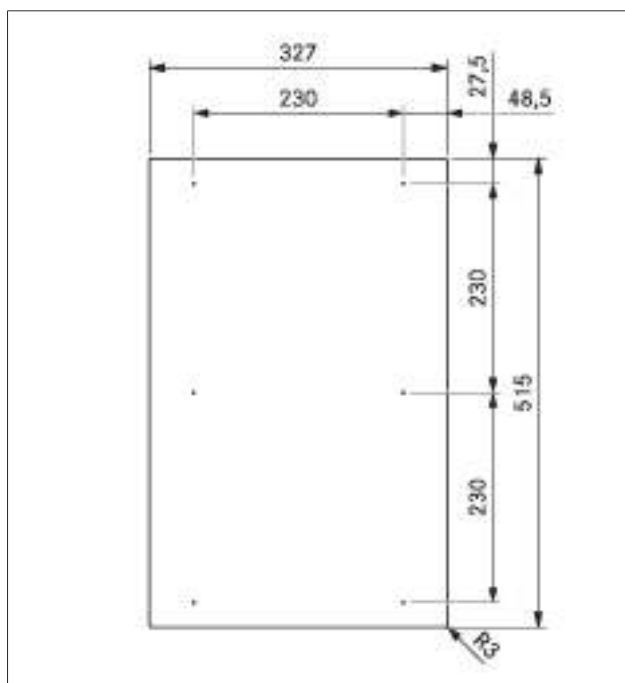


Fig. 3.5 CKFI device dimensions top view

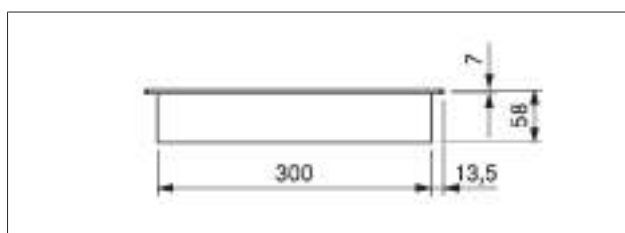


Fig. 3.6 CKFI device dimensions front view

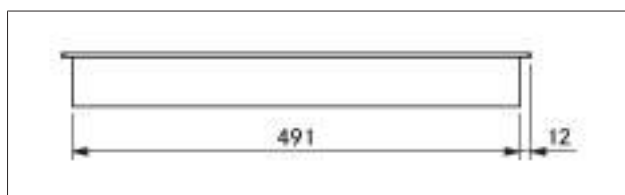


Fig. 3.7 CKFI device dimensions side view

3.3 CKI

Parameter	Value
Supply voltage	220-240 V
Frequency	50-60 Hz
Power consumption	3680 W
Fuse protection	1 x 16 A
Cooktop dimensions	327 x 515 x 58 mm
Weight (incl. accessories and packaging)	7.6 kg
Cooktop	
Power levels	1-9, P
Heat retention levels	3
Front cooking zone size	Ø 230 mm
Front cooking zone output	2300 W
Front cooking zone power setting output	3680 W
Rear cooking zone size	Ø 165 mm
Rear cooking zone output	1400 W
Rear cooking zone power setting output	2200 W
Cooktop energy consumption	
Front cooking zone	162.3 Wh/kg
Rear cooking zone	168.5 Wh/kg
Total (average)	165.4 Wh/kg

Tab. 3.3 Technical data CKI

Appliance dimensions

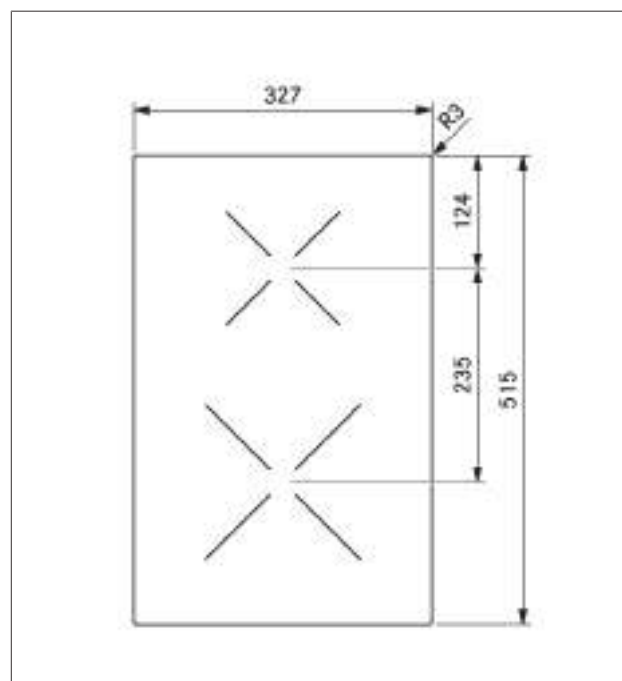


Fig. 3.8 CKI device dimensions top view

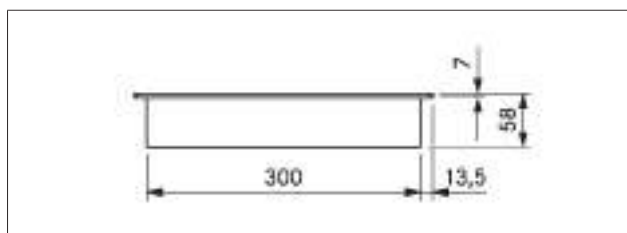


Fig. 3.9 CKI device dimensions front view

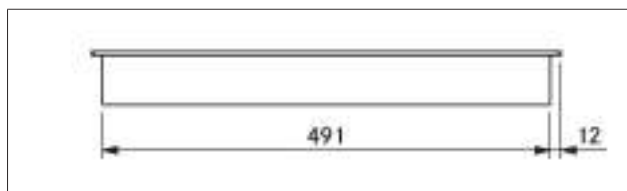


Fig. 3.10 CKI device dimensions side view

3.4 CKIW

Parameter	Value
Supply voltage	220–240 V
Frequency	50–60 Hz
Power consumption	3000 W
Fuse protection	1 x 16 A
Cooktop dimensions	327 x 515 x 120 mm
Weight (incl. accessories and packaging)	9.8 kg
Cooktop	
Power levels	1–9, P
Heat retention levels	3
Cooking zone size	Ø 282 mm
Cooking zone output	2400 W
Cooking zone power setting output	3000 W

Tab. 3.4 Technical data CKIW

Appliance dimensions

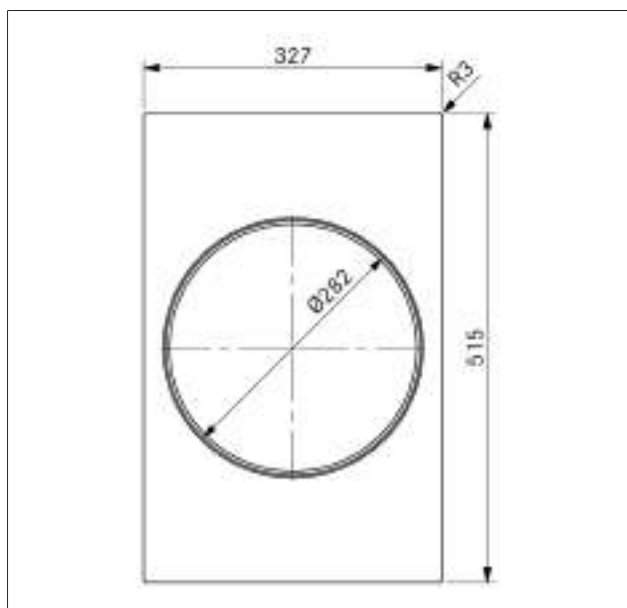


Fig. 3.11 CKIW device dimensions top view

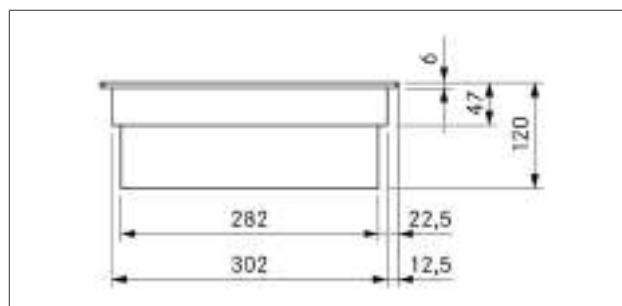


Fig. 3.12 CKIW device dimensions front view

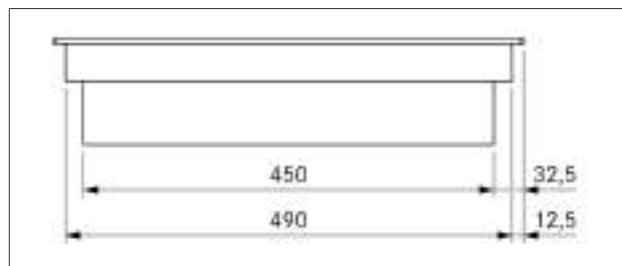


Fig. 3.13 CKIW device dimensions side view

3.5 CKCH

Parameter	Value
Supply voltage	220–240 V
Frequency	50–60 Hz
Power consumption	3680 W
Fuse protection	1 x 16 A
Cooktop dimensions	327 x 515 x 75 mm
Weight (incl. accessories and packaging)	7.2 kg
Cooktop	
Power levels	1–9, P, 2-ring additional switching
Heat retention levels	3
Front cooking zone size	Ø 215 mm
Front cooking zone output	2100 W
Front cooking zone power setting output	3000 W
Rear cooking zone size	Ø 120 mm
Rear cooking zone 2-ring additional switching size	Ø 180 mm
Rear cooking zone output	600 W
Rear cooking zone 2-ring additional switching output	1600 W
Cooktop energy consumption	
Front cooking zone	172.3 Wh/kg
Rear cooking zone	178.7 Wh/kg
Total (average)	175.5 Wh/kg

Tab. 3.5 Technical data CKCH

Appliance dimensions

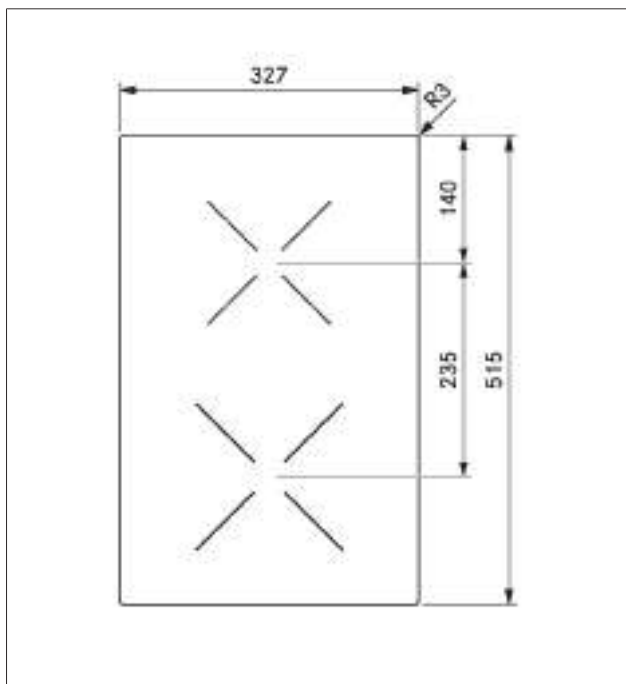


Fig. 3.14 CKCH device dimensions top view

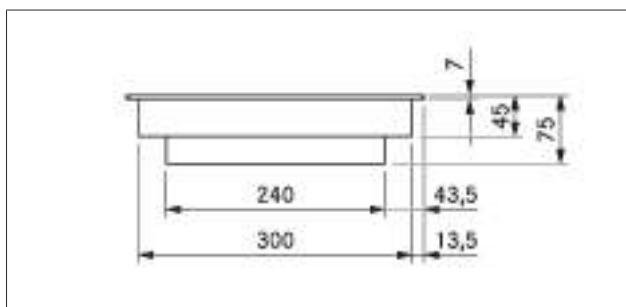


Fig. 3.15 CKCH device dimensions front view

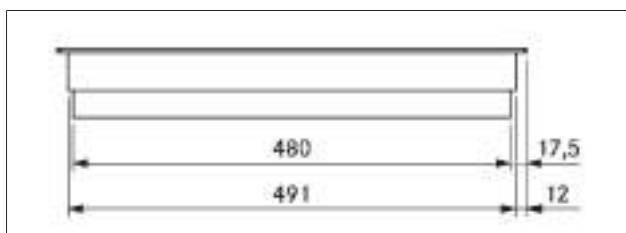


Fig. 3.16 CKCH device dimensions side view

3.6 CKCB

Parameter	Value
Supply voltage	220-240 V
Frequency	50-60 Hz
Power consumption	3680 W
Fuse protection	1 x 16 A
Cooktop dimensions	327 x 515 x 75 mm
Weight (incl. accessories and packaging)	7.4 kg
Cooktop	
Power levels	1-9, 2-ring additional switching, roaster cooking zone additional switching
Heat retention levels	3
Front cooking zone size	Ø 180 mm
Front cooking zone output	1600 W
Rear cooking zone size	Ø 120 mm
Rear cooking zone 2-ring additional switching size	Ø 180 mm
Cooking zone roaster additional switching size	Ø 180 x 410 mm
Rear cooking zone output	600 W
Rear cooking zone 2-ring additional switching output	1600 W
Cooking zone roaster additional switching output	3680 W
Cooktop energy consumption	
Front cooking zone	174.8 Wh/kg
Rear cooking zone	176.0 Wh/kg
Total (average)	175.4 Wh/kg

Tab. 3.6 Technical data CKCB

Appliance dimensions

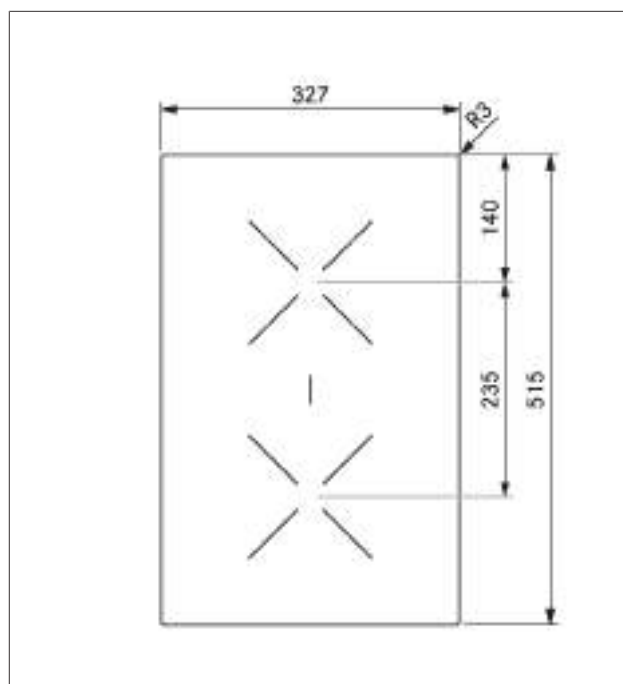


Fig. 3.17 CKCB device dimensions top view

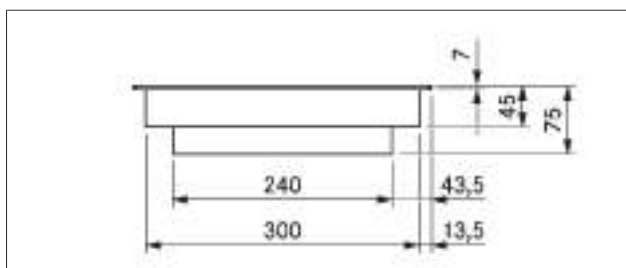


Fig. 3.18 CKCB device dimensions front view

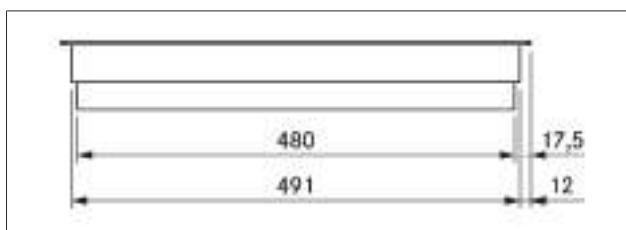


Fig. 3.19 CKCB device dimensions side view

3.7 CKG

Parameter	Value
Supply voltage	220–240 V
Frequency	50–60 Hz
Total burner output	5000 W
Power rating	20 W
Fuse protection	1 x 0.5 A
Gas connection	1/2" internal thread
Cooktop dimensions	327 x 515 x 73 mm
High-power burner pan support dimensions	270 x 270 x 25/50 mm
Normal burner pan support dimensions	235 x 235 x 25/50 mm
Weight (incl. accessories and packaging)	11.5 kg
Cooktop	
Power levels	1–9, P
Heat retention levels	3
High-power burner	800–3000 W
Normal burner	550–2000 W
Total nominal connection values G20/20 mbar:	5000 W 0.449 m³/h
Cooktop energy consumption G20/20 mbar, category I2H 20 mbar (measurement taken without cooktop extractor)	
High-power burner	63.3%
Normal burner	61.3%
Cooking zones bridged	62.3%

Tab. 3.7 Technical data CKG

Appliance dimensions

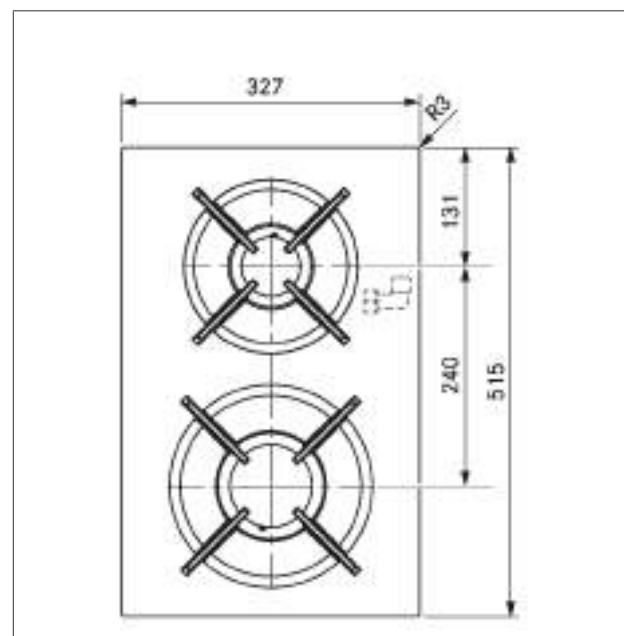


Fig. 3.20 CKG device dimensions top view

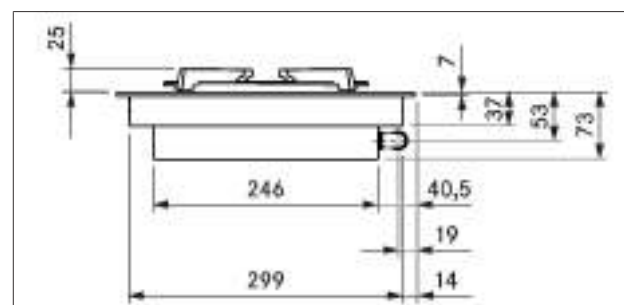


Fig. 3.21 CKG device dimensions front view

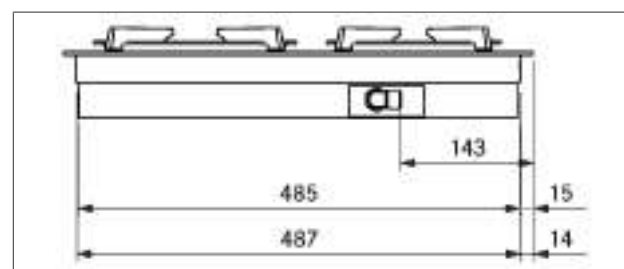


Fig. 3.22 CKG device dimensions side view

3.8 CKT

Parameter	Value
Supply voltage	220–240 V
Frequency	50–60 Hz
Power consumption	3500 W
Fuse protection	1 x 16 A
Cooktop dimensions	327 x 515 x 73 mm
Weight (incl. accessories and packaging)	13.6 kg
Cooktop	
Temperature control (power levels)	150–230 °C, 250 °C (1–9, P)
Heat retention levels	3
Front cooking zone size	250 x 220 mm
Front cooking zone output	1750 W
Rear cooking zone size	250 x 220 mm
Rear cooking zone output	1750 W
Temperature control range	70 – 250 °C

Tab. 3.8 Technical data CKT

Appliance dimensions

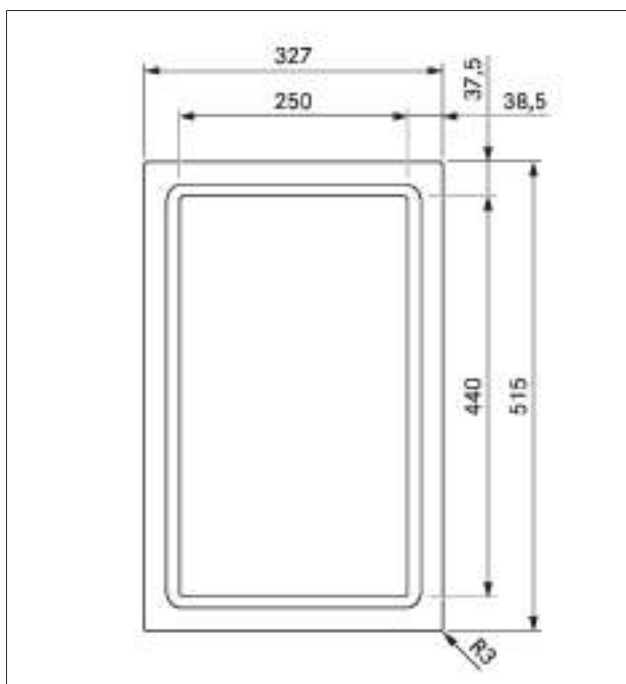


Fig. 3.23 CKT device dimensions top view

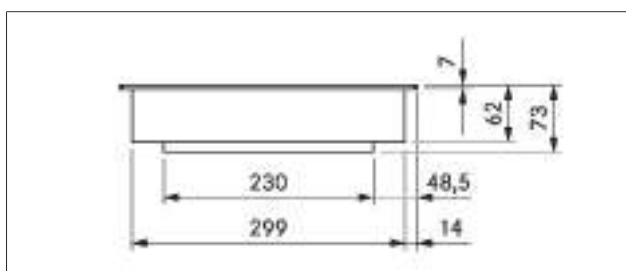


Fig. 3.24 CKT device dimensions front view

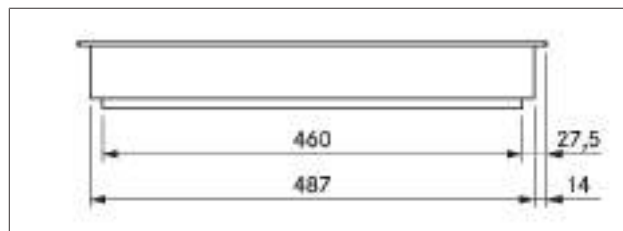


Fig. 3.25 CKT device dimensions side view

4 Installation

- Observe all safety and warning information (see "2 Safety").
- Follow the enclosed manufacturer's information.

4.1 General installation instructions

- i** The appliance must not be installed above cooling devices, dishwashers, stoves, ovens, washing machines or dryers.
- i** The contact surface of the worktops and wall sealing strips must be made of a heat-resistant material (up to approx. 100°C).
- i** Worktop cut-outs must be moisture-sealed using suitable means and, where necessary, fitted with a thermal insulator.
- i** External devices may only be connected to the cooktop extractor connections provided.
- i** Extremely bright lights aimed directly at the appliances can cause colour variations in the appliances and are thus to be avoided.

General installation instructions for cooktops

- Make sure that the area below the cooktop has a sufficient air supply.
- i** To ensure that the cooktops perform optimally at all times, there must be sufficient ventilation beneath the cooktops.
- i** The performance of the cooktops is affected or the cooktops overheat if the warm air beneath the cooktops cannot escape.
- i** In the event of overheating, the cooktop power is reduced or the appliance is switched off completely.
- i** If cable protection (false floor) is planned beneath the appliance, this must be fitted so it does not obstruct ventilation.

4.1.1 Operating the cooktop extractor in the exhaust air mode and where there is a fireplace dependent upon the air supply in the room

- i** National and regional laws and regulations must be observed with regard to the exhaust duct design.
- i** 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 air mode, it draws in air from the room in which it is installed as well as from neighbouring rooms. Without sufficient air, there will be a drop in air pressure. Toxic gases could be drawn out of the chimney or extraction ducting and back into the room.



Fig. 4.1 Exhaust air installation – not permitted

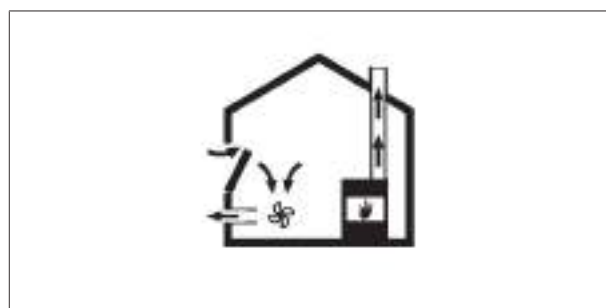


Fig. 4.2 Exhaust air installation – correct

- If simultaneously operating both a fireplace and the cooktop extractor in the same room, ensure that:
 - the maximum low pressure is 4 Pa (4×10^{-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 channelled into a chimney that is used for exhaust gases of appliances operated with gas or other combustibles;
 - the installation is checked and approved by an authorised certified engineer (e.g. heating engineer).
 - when using a window contact switch, only devices will be installed which meet the requirements of standard IEC 60730-1:2013 + AMD1:2015 or EN 60730-1:2016 (or a more recent IEC update or EN standard) for type 2 control units and devices (e.g. window contact switch UFKS).
- i** No window contact switches may be installed that separate the control unit from the power supply (phase separation). Only the Home In interface is to be used
- i** If the cooktop extractor is used exclusively in recirculation mode, operation with an open fireplace is possible without any additional safety measures.

4.2 Scope of delivery

Checking the scope of delivery

- Make sure the delivery is complete and check it for damage.
- Immediately inform the BORA Service Team if parts are missing or damaged.
- Do not under any circumstances install parts which are damaged.

- Dispose of transport packaging in the proper manner (see "5 Decommissioning, disassembly and disposal").

4.2.1 Scope of delivery of the cooktop extractor

Scope of delivery	Quantity
Operating instructions	1
Installation instructions	1
Extractor base module (CKA2GM)	1
Air inlet nozzle (CKAED/CKAEDAB)	1
Grease filter unit (CKA2FFE)	1
Control unit	1
Power supply cable	1
Flexible module (CKA2MF)	1
Ferrite sleeves	1

Tab. 4.1 Scope of delivery

4.2.2 Scope of delivery of the cooktops

Scope of delivery of the cooktops	Quantity
Operating instructions	1
Installation instructions	1
Cooktop	1
Mounting brackets	4
Height adjustment plate set	1
Additional scope of delivery for glass ceramic cooktops	
Glass ceramic cleaning instructions	1
Additional scope of delivery for Tepan	
Tepan spatula	1
Additional scope of delivery for gas cooktop	
Cast-iron pan support	2
Nozzle set G20/20 mbar natural gas PKGDS2020	1
Cylindrical/conical transition piece	1
Seal	1
Additional scope of delivery for Australia and New Zealand:	
1.00 kPa gas regulator with test-point adapter for natural gas (NG)	1
Flexible gas connection hose, length 500 mm, 1/2" external thread (AS/NZS 1869)	1
Test-point adapter for liquefied petroleum gas (LPG)	1
G20/10 mbar nozzle set (NG/1.0 kPa) – pre-installed	1
G31/27.5 mbar nozzle set (ULPG/2.75 kPa)	1

Tab. 4.2 Scope of delivery of the cooktops

4.3 Tools and aids

The following tools, among others, are required to correctly install the cooktop:

- size 20 Torx screwdriver key
- black, heat-resistant silicone sealant
- Fine saw

4.4 Assembly instructions

4.4.1 Installation clearances

- Observe the required clearance around the worktop cut-out.

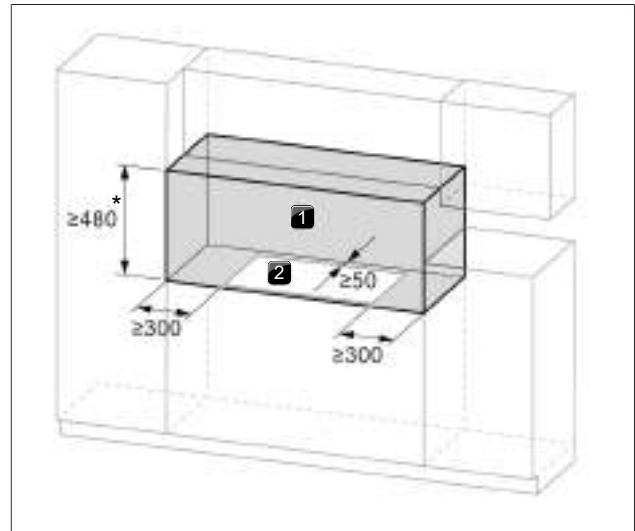


Fig. 4.3 Required clearance

- [1] Required clearance
- [2] Worktop cut-out
- [*] 650 mm in the case of gas cooktops

4.4.2 Worktop

- Create the worktop cut-out taking into account the specified cut-out dimensions.
- Make sure that the cut surfaces of the worktops are properly sealed.
- Comply with the instructions of the worktop manufacturer.

4.4.3 Kitchen units

- Cross bars on the kitchen unit in the area of the worktop cut-out may need to be removed.
- No false floor is necessary below the cooktop. If cable protection (false floor) is planned, the following must be taken into account:
 - It must be able to be removed for maintenance work.
 - To ensure sufficient cooktop ventilation, a minimum distance of 15 mm to the bottom edge of the cooktop extractor is to be observed.
- The drawers and/or shelves in the floor unit must be removable.
- For correct installation, the drawers of the floor unit must be shortened depending on the installation situation.

4.4.4 Return flow of recirculated air

In the case of recirculation systems, a return flow aperture must be provided in the kitchen unit to guide the clean recirculated air out of the unit and back into the room. The return flow aperture can be created above a shortened plinth. A slatted plinth with at least the minimum opening cross-section can also be used.

- Decrease the height of the plinth panel or create corresponding openings in the plinth.

- The cross-section of the return flow aperture must be $\geq 500 \text{ cm}^2$ ($\geq 1000 \text{ cm}^2$ in the case of gas appliances) for each cooktop extractor.

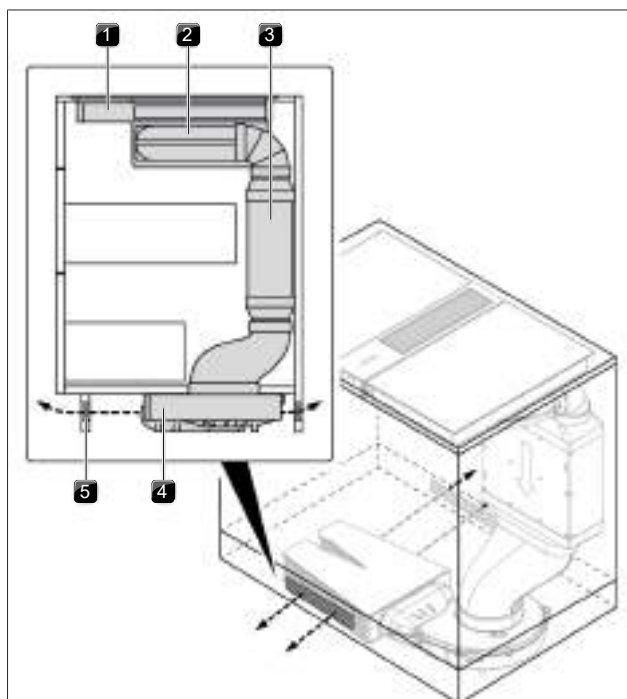


Fig. 4.4 Example of recirculated-air-return-flow planning

- [1] Cooktop
- [2] Cooktop extractor
- [3] Air cleaning box
- [4] Plinth fan
- [5] Recirculation return flow aperture

If several cooktop extractors need to be installed in recirculation mode, the return flow apertures must be enlarged.
 Example: 2 recirculation systems = $2 \times (>500 \text{ cm}^2)$
 Example: 2 recirculation systems with gas cooktop = $2 \times (>1000 \text{ cm}^2)$

- i** If the gas flame goes out, is excessively affected by the extractor and/or the flame is not as it should be (e.g. soot production, flame blowback, etc.), the return flow aperture must be enlarged.

4.4.5 Special assembly instructions for the gas cooktop

- i** If a gas cooktop is installed to the right of the extractor, the use of a 900 mm carcass is recommended.
- i** Minimum requirement for operating the gas cooktop: System software 03.00 (or higher).
- i** Taking into account the applicable valid regulations, the cooktop must be connected to the gas line with an upstream stopcock.
- i** The hose connection must be laid in such a way that it is not subject to deformation, buckling or abrasion.

- i** The stopcock and gas supply pipe connections must be accessible.
- i** The pressure regulator must correspond to the set gas type and set gas pressure and must meet local and legal requirements.
- i** The gas connection hose line must not come into contact with smoke or the flue outlet of an oven.
- i** The hose line must not come into contact with hot surfaces on the cooktop or other devices.
- i** The connection between the gas cooktop and the gas connection must be provided at the installation site.

Positioning of the gas cooktop with two cooktop extractors

If the gas cooktop is used in a model with two cooktop extractors, it is to be installed at the side. If installed between the cooktop extractors, the pull of air on both sides may affect the flames.

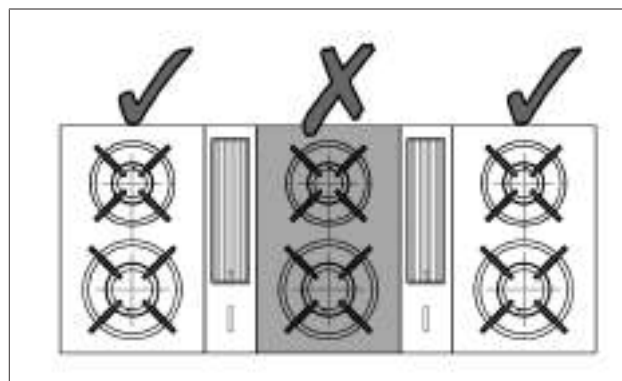


Fig. 4.5 Positioning of the gas cooktop with two cooktop extractors

Air supply for the gas cooktop

To ensure a sufficient air supply, an opening cross-section of at least 50 cm^2 is required in the front of the kitchen unit, or an opening cross-section of at least 150 cm^2 in the plinth area.

- Make sure that the area below the cooktop has a sufficient air supply.

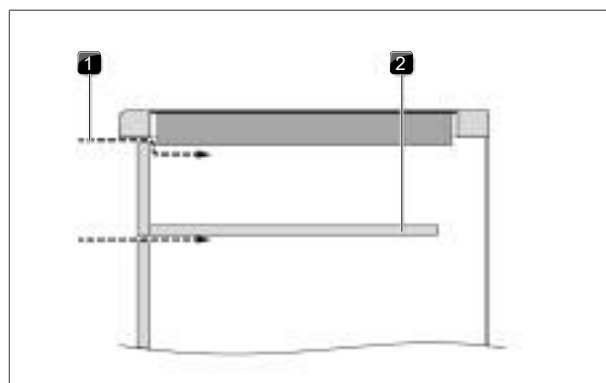


Fig. 4.6 Air supply at front of the unit

- [1] Air supply via the front of the unit (opening cross-section $\geq 50 \text{ cm}^2$)
- [2] Optional cable protection (shortened)

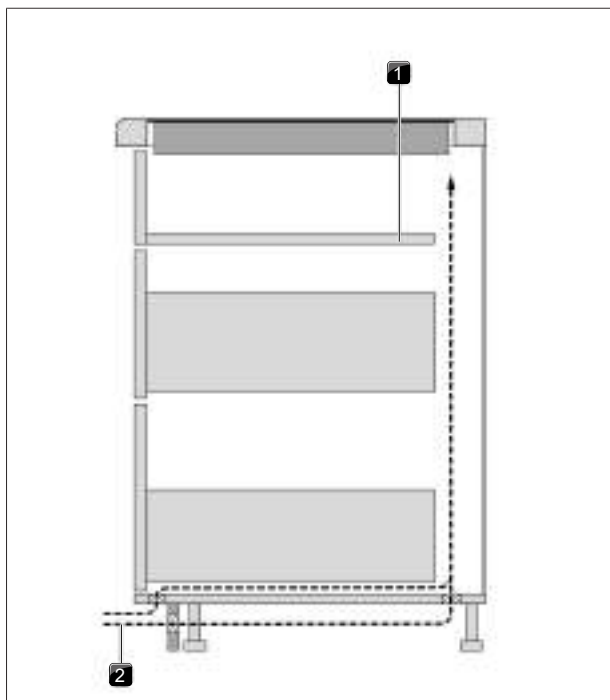


Fig. 4.7 Plinth area air supply

- [1] Optional cable protection (shortened)
 [2] Air supply via the plinth area (opening cross-section $\geq 150 \text{ cm}^2$)

4.4.6 Adjusting the carcass for the gas connection in the case of an 800 mm carcass

If a gas cooktop is installed to the right of the cooktop extractor, it can lead to space issues in an 800 mm wide carcass. Therefore, the right wall of the carcass must be removed.

- i** For worktops with a thickness of more than 40 mm, it may be necessary to make cut-outs in the area of the gas connection.
- i** The elbow fitting and the union nut of the gas connection must not have any contact with the carcass, etc. and must not be subjected to mechanical loading.

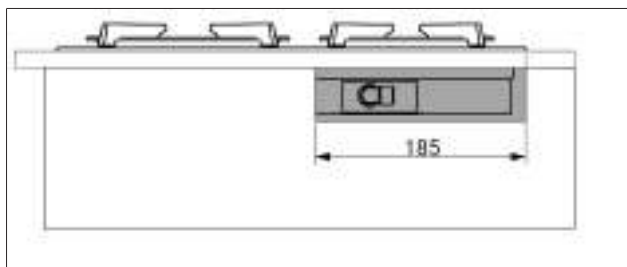


Fig. 4.8 Side cut-out for the gas connection

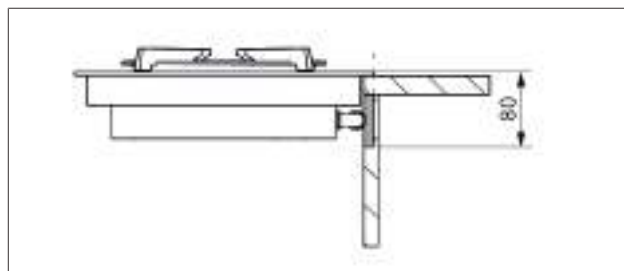


Fig. 4.9 Side cut-out for the gas connection (front view)

4.5 Cut-out dimensions

i The minimum measurement of 50 mm from the front edge of the worktop to the worktop cut-out is a recommendation from BORA.

- Create the worktop cut-out taking into account the specified cut-out dimensions.
- Make sure that the cut surfaces of the worktops are properly sealed.
- Comply with the instructions of the worktop manufacturer.

4.5.1 Flush installation

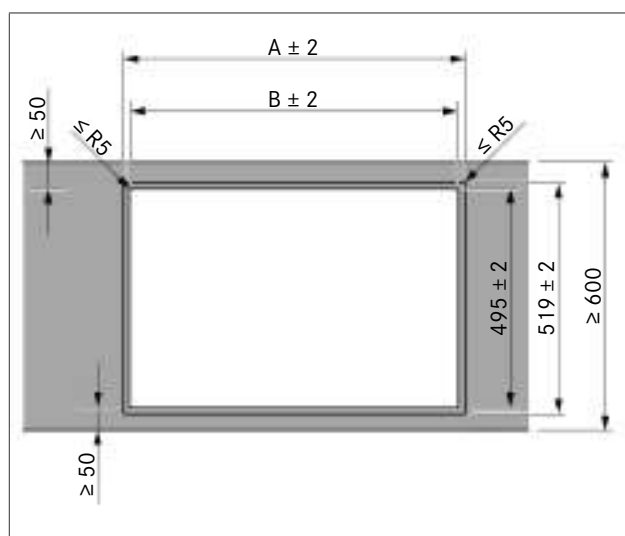


Fig. 4.10 Cut-out dimensions for flush installation

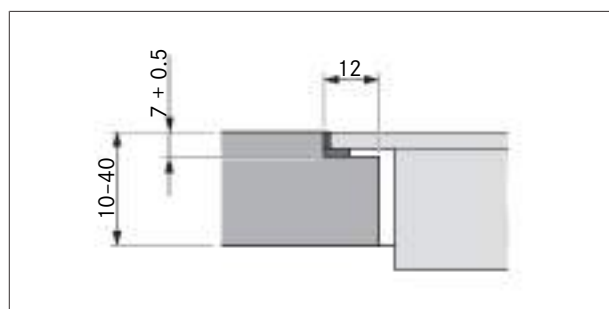


Fig. 4.11 Rebate dimensions for flush installation

Cooktops/cooktop extractor	A in mm	B in mm
 1/0	448	424
 2/1	776	752
 3/2	1221	1197
 4/2	1549	1525

Tab. 4.3 Cut-out dimensions of the appliance combinations in the case of flush installation

4.5.2 Surface mounting

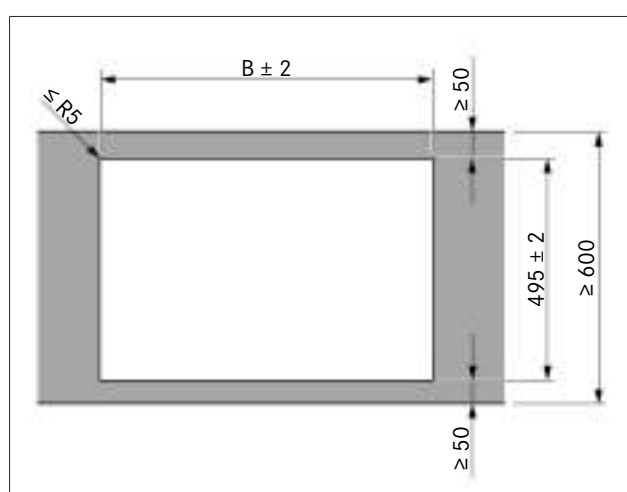


Fig. 4.12 Cut-out dimensions for surface mounting

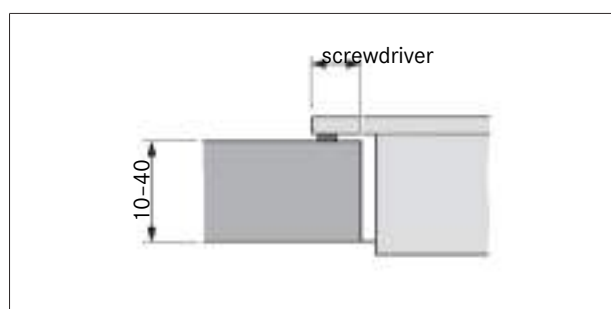


Fig. 4.13 Dimension of support for surface mounting

Cooktops/cooktop extractor	B in mm
 1/0	424
 2/1	752
 3/2	1197
 4/2	1525

Tab. 4.4 Cut-out dimensions of the appliance combinations in the case of surface mounting

4.6 Installation dimensions

Minimum installation dimensions

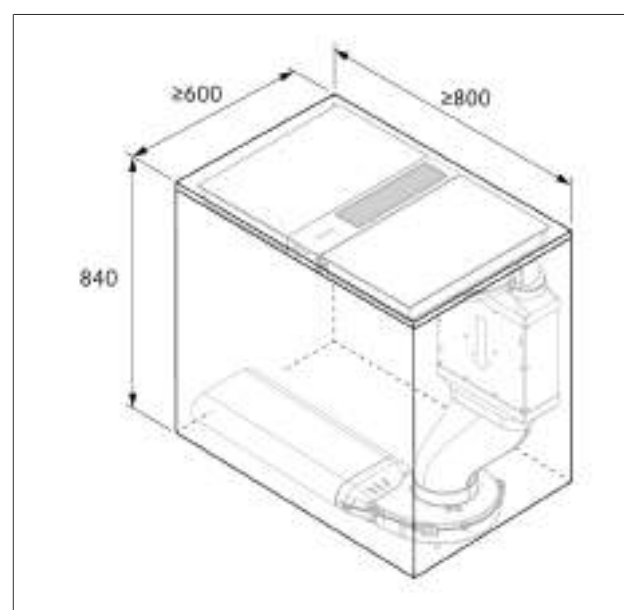


Fig. 4.14 Minimum installation dimensions with shallow silencer USDF

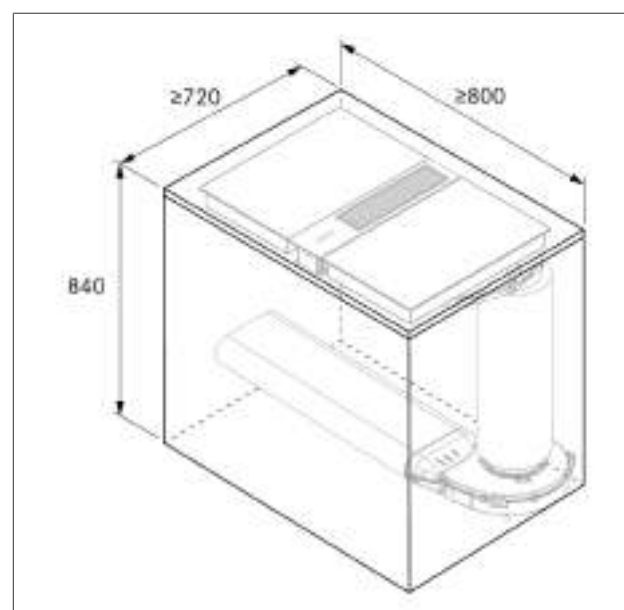


Fig. 4.15 Minimum installation dimensions with round silencer USDR50

Appliance installation dimensions

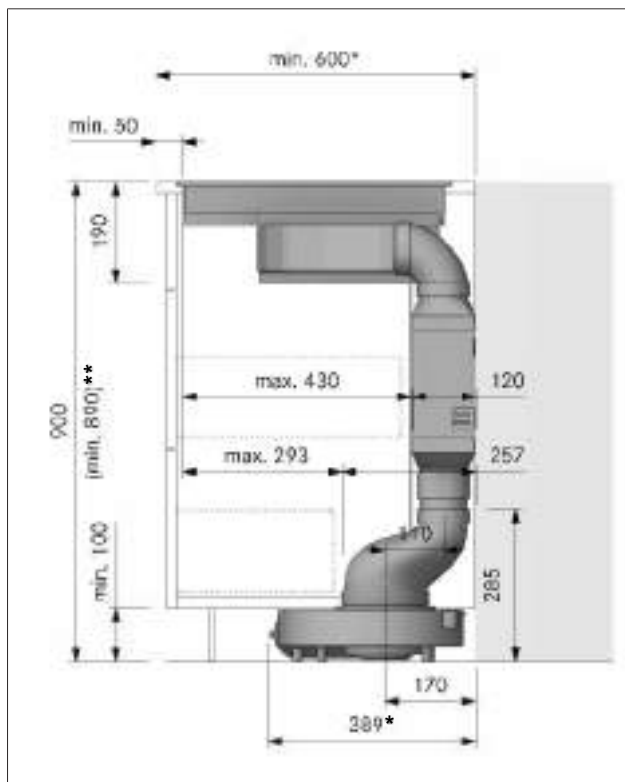


Fig. 4.16 Appliance installation dimensions with shallow silencer USDF, shallow duct connection EFV and offset transition piece EFRV110 (600 mm units)

[*] Sockel fan ULS outgoing airflow to the left

[**] with round silencer USDR50

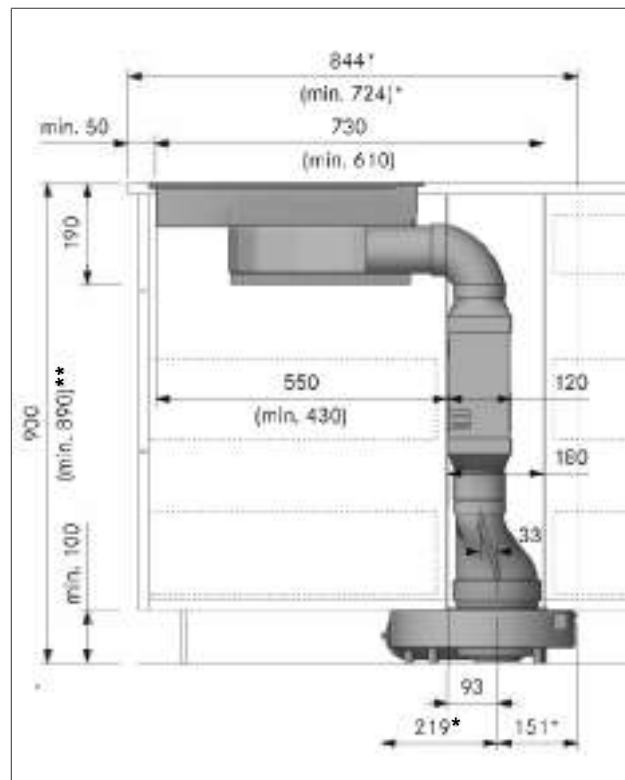


Fig. 4.17 Appliance installation dimensions with shallow silencer USDF, shallow duct connection EFV and straight transition piece EFRG (island)

[*] Sockel fan ULS outgoing airflow to the left

[**] without duct connection EFV 840 mm

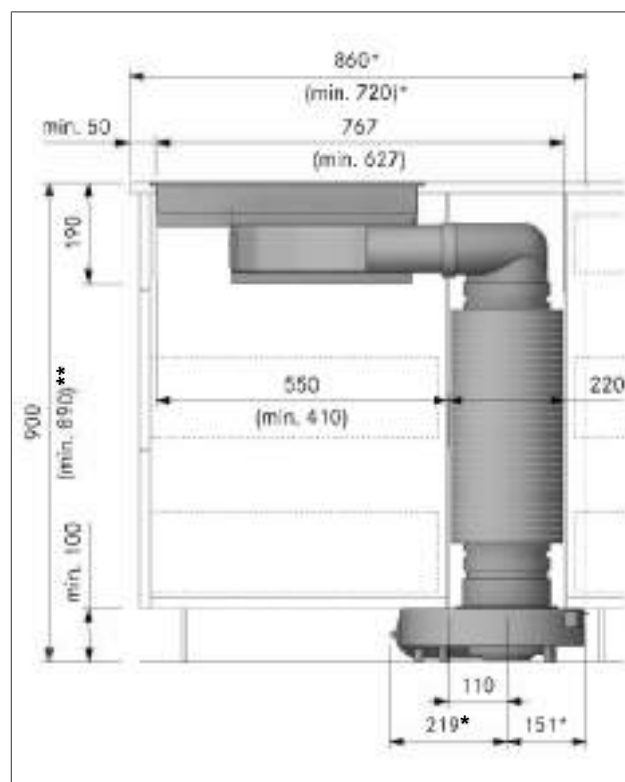


Fig. 4.18 Appliance installation dimensions with round silencer USDR50 and round duct connection ERV (island)

- [*] Sockel fan ULS outgoing airflow to the left
 [**] without duct connection EFV 840–890 mm

4.7 Installation options

The BORA Classic 2.0 system offers different installation options. It is necessary to decide which installation option is to be implemented prior to installation.

- Please ensure prior to installation that you have made the correct preparations for the corresponding installation.
- In the event of any queries regarding the planned installation option, please contact your kitchen planner.

Installation option overview

The following airflow options can be implemented with the BORA Classic 2.0 system:

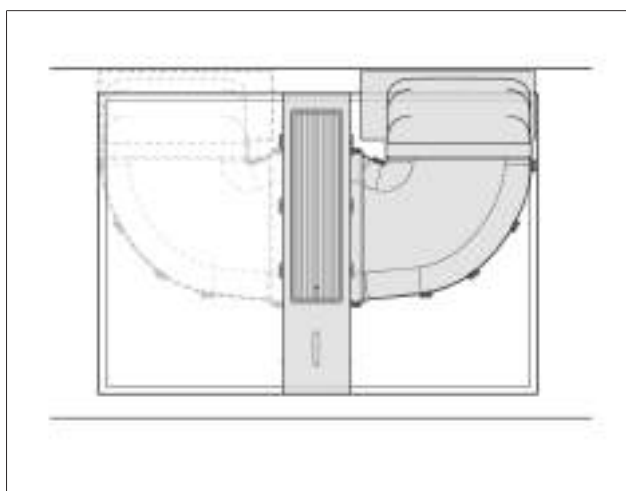


Fig. 4.19 Airflow towards the rear (right or left)

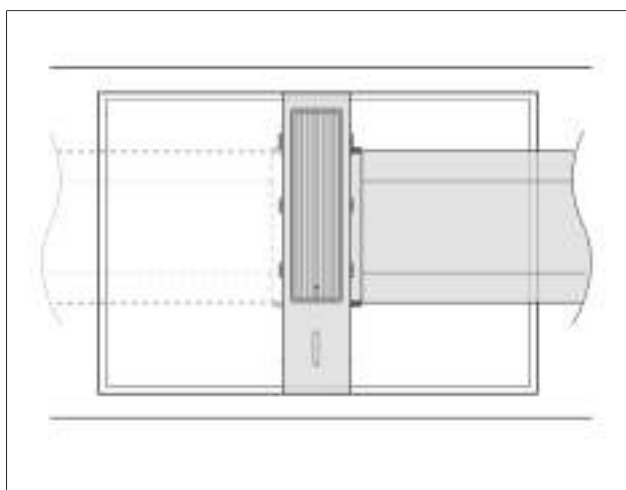


Fig. 4.20 Straight airflow towards the side (right or left)

4.8 Assembling the extraction system

The cooktop extractor is delivered as individual parts which must be assembled prior to or during installation according to the installation option. All individual components are built in such a way that they can be assembled without any difficulty if they are aligned correctly.

- Assemble the individual parts as required for the planned installation option.

- Make sure that the parts are aligned correctly.
- Do not force the parts together.
 - If not aligned correctly, the parts cannot be assembled easily (solve this by turning or rotating the part).
- Make sure that all locks click into place.

4.8.1 Assembling the cooktop extractor

There are two different models of the cooktop extractor, depending on the planned airflow:

- If the adapter panel is fitted correctly, the duct connection will always be at the front on both models (facing the user).
- You can check that the adapter panel has been fitted correctly by looking at the arrow markings on the panel and the base module. These must be correctly aligned.

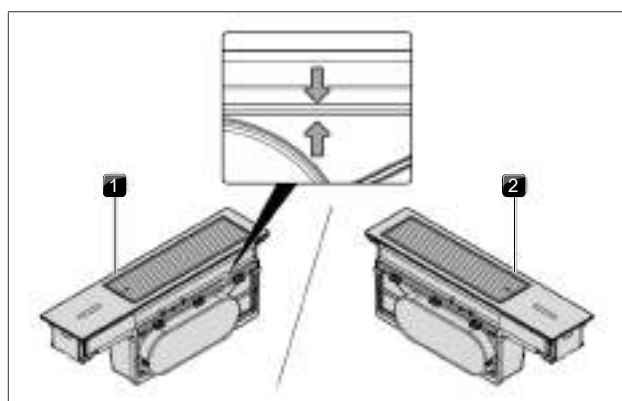


Fig. 4.21 Assembled cooktop extractor

- [1] Cooktop extractor for airflow towards the right
 [2] Cooktop extractor for airflow towards the left

Assembling the individual components

- Position the connection module facing the left or right depending on the planned installation option.
- Check that the adapter panel seal is positioned correctly.
- Position the adapter panel in such a way that the duct connection is facing left or right as required.
- Insert the adapter panel into the connection module from above.
- To do this, slide the adapter panel into the slots on the connection module.
- Do not use force to assemble the parts.
- Ensure that the lock clicks into place.

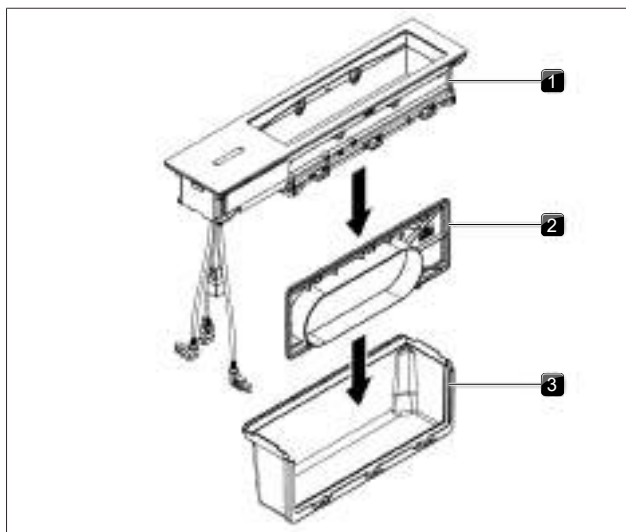


Fig. 4.22 Assembling the individual components on the cooktop extractor

- [1] Extractor base module
- [2] Adapter panel with O-ring seal
- [3] Connection module

- Place the base module on top of the connection module with its adapter panel already fitted.
- Do not use excessive force to assemble the parts.
- Ensure that the lock clicks into place.
- Check that all components are positioned correctly.
- Check that the clearance inside the extractor is even.

4.9 Installing the cooktop extractor

Clearance of one millimetre should be planned between the built-in appliances. A clearance of two millimetres should be planned around the built-in appliances.

4.9.1 Fitting and positioning the cooktop extractor

- Place the cooktop extractor in the middle of the worktop cut-out.
- Position the cooktop extractor with precision.

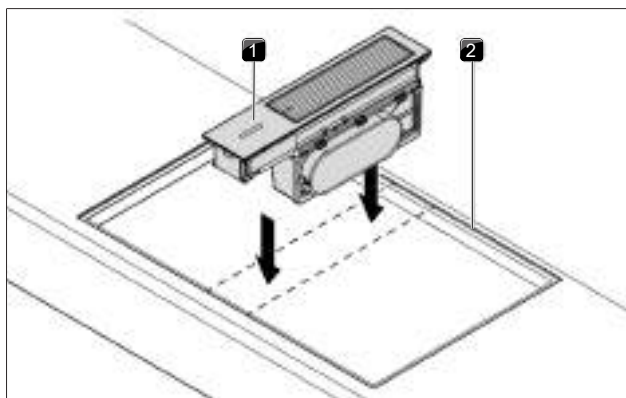


Fig. 4.23 Insert the cooktop extractor in the worktop cut-out.

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

Adjusting the installation height

It is only necessary to adjust the installation height using height adjustment plates in the case of flush installation.

- In flush installation, if necessary, lay height adjustment plates underneath in order to adapt the installation height of the cooktop extractor to the rebate depth.

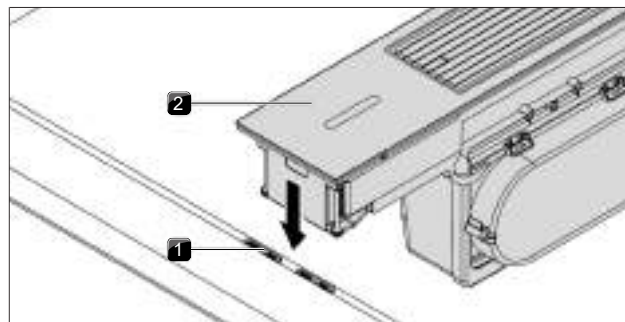


Fig. 4.24 Height adjustment plates for flush installation

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

4.10 Installing the duct system

- The maximum exhaust air duct length with a fan is 6 m with six 90° bends installed.
- The minimum cross-section of the air ducts must be 176 cm², which equates to a round pipe with a diameter of 150 mm or the BORA Ecotube duct system.
- Use only BORA Ecotube duct parts.
- Do not use flexible or fabric hoses.
- The duct system must be fitted to the cooktop extractor free of load and with the power supply switched off.

4.10.1 Fitting the duct system to the cooktop extractor

- i** The floor unit must not be supported by the plinth fan housing.

- Adjust the ducting parts to the height of the worktop.
- Saw out the necessary cut-outs for the ducting in the back panel of the floor unit.
- Depending on the installation situation, adjust the levelling feet on the floor unit as necessary.
- Adapt the 90° bend to the depth of the worktop if necessary by shortening it accordingly at the cut marks using a fine saw.

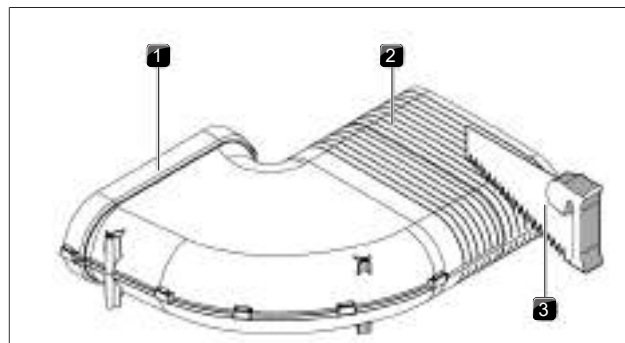


Fig. 4.25 Shortening the 90° bend

- [1] 90° bend
- [2] Cut marks
- [3] Fine saw

Attaching the shallow seal

- Pull the seal onto the duct part/component without a sleeve. The seal will need to be stretched slightly.
- Push the connecting duct part/component with a sleeve onto the duct part with the seal.
- Ensure that the seal is not displaced.

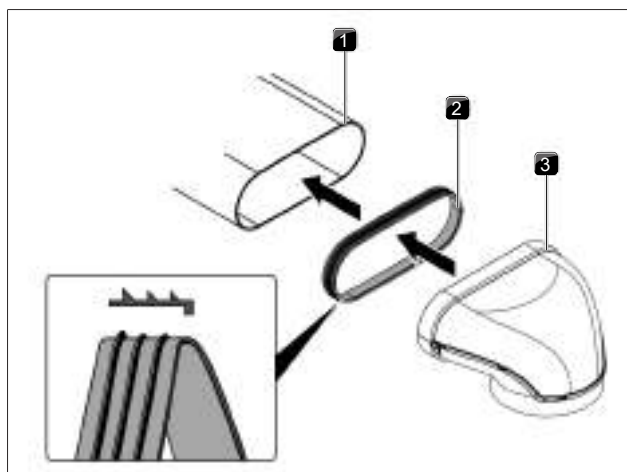


Fig. 4.26 Assembly of the duct system

- [1] Ecotube duct part/component without sleeve
- [2] Ecotube seal
- [3] Ecotube duct part/component with sleeve

Example of a standard set-up

- Ensure that suitable Ecotube seals have been attached to all connections and that they are airtight.
- Attach the 90° bend to the connection module with a built-in adapter panel.
- Position the plinth fan ULS.
 - To facilitate positioning, the inlet nozzle on the plinth fan can be removed. To do this, please see the assembly instructions for the plinth fan.
- Connect the plinth fan ULS to the Ecotube shallow, round, offset transition piece EFRV.
 - The installation height can be extended between the Ecotube shallow, round, offset transition piece EFRV and the shallow silencer USDF. To do this, an Ecotube shallow duct of a suitable length is used.
- Connect the Ecotube shallow, round, offset transition piece EFRV to the shallow silencer USDF.
- Connect the shallow silencer USDF to the BORA Ecotube shallow, vertical 90° bend EFBV90.
- Connect the BORA Ecotube shallow, vertical 90° bend EFBV90 to the 90° bend.
- Secure the shallow silencer using the mounting brackets included.
 - Securing the shallow silencer prevents forces from being applied to the cooktop extractor and the duct system.

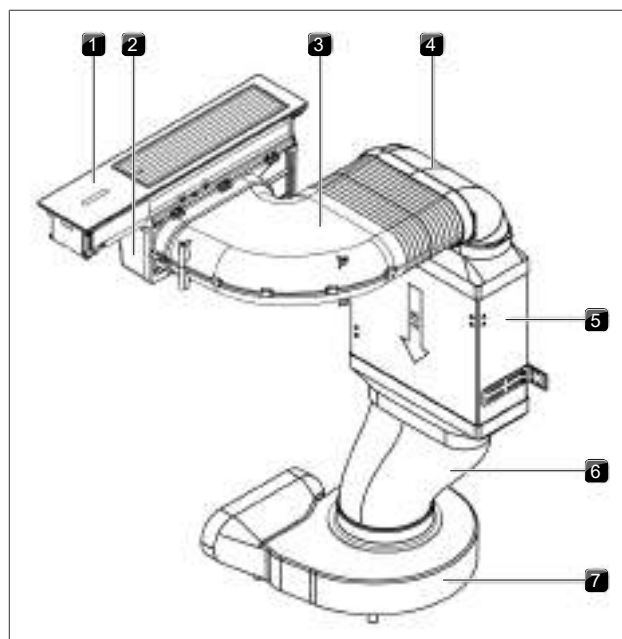


Fig. 4.27 Cooktop extractor standard set-up

- [1] Cooktop extractor
- [2] Connection module with built-in adapter panel
- [3] 90° bend
- [4] Ecotube shallow, vertical 90° bend EFBV90
- [5] Shallow silencer USDF
- [6] Ecotube shallow, round, offset transition piece EFRV
- [7] Plinth fan ULS

4.10.2 Installing the additional fan

i The maximum exhaust air duct length with a fan is 6 m.

- Install an additional fan in the exhaust duct if necessary.
- Ensure that there is a clearance of at least 3 m between the fan units.
- Use only BORA Universal fans.

If additional fans are installed at a later date:

- When installing additional fans at a later date, carry out the initial operation procedure (see "4.15 Initial operation").
- In the basic configuration, any fans installed at a later date are automatically recognised provided that they have been connected correctly. The system configuration is adjusted accordingly.

4.11 Installing the cooktops

i Before the gas cooktop can be installed, the appliance must be connected to the gas supply (see "4.14 Gas installation").

Clearance of one millimetre should be planned between the built-in appliances. A clearance of two millimetres should be planned around the built-in appliances.

4.11.1 Fitting and positioning the cooktops

- Place the cooktop next to the centrally-positioned cooktop extractor.

- Precisely align the cooktop.
- Push the cooktop right up to the cooktop extractor.
- When the cooktop is pushed up against the side of the cooktop extractor, spacers automatically provide the prescribed 1 mm clearance.

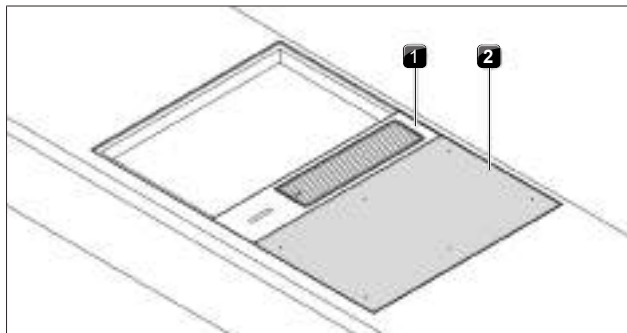


Fig. 4.28 Cooktop fitted next to the cooktop extractor

- [1] Cooktop extractor
[2] Cooktop

Adjusting the installation height in the case of flush installation

- Adapt the cooktop installation height to the level of the cooktop extractor using the height adjustment plates.

i When installing the cooktops it must be taken into account that the appliances only have 4 support points and the height adjustment plates must be positioned accordingly. This particularly applies to the Tepan stainless steel grill.

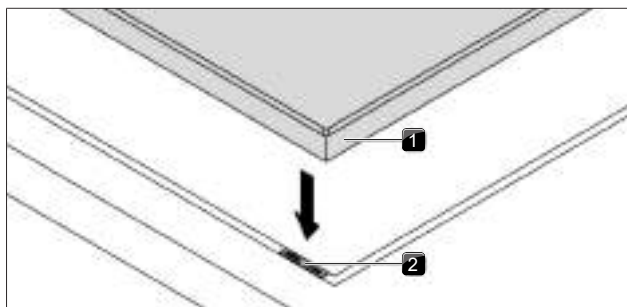


Fig. 4.29 Cooktop and height adjustment plates

- [1] Cooktop
[2] Height adjustment plates

4.11.2 Securing the cooktop extractor

- Turn the four fixing brackets under the worktop.
- The fixing brackets are secured against slipping by a ratchet mechanism.
- Tighten the tensioning screws with a max. torque of 2 Nm.
- Do not use a cordless screwdriver or similar electrical device to secure the cooktop extractor.
- Check that the cooktop extractor is positioned correctly.

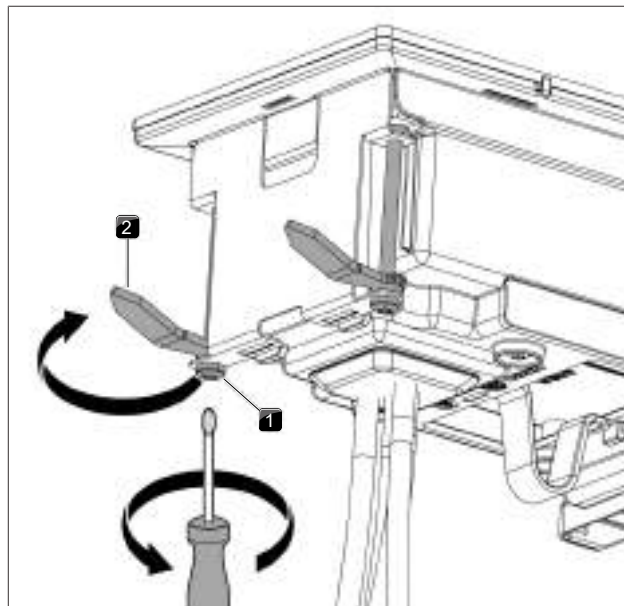


Fig. 4.30 Securing the cooktop extractor

- [1] Tensioning screw
[2] Fixing bracket

4.11.3 Securing the cooktops

- Secure the cooktop using the four mounting brackets.
- To do this, tighten the mounting brackets with a screw and using the washer with a max. torque of 2 Nm.
- Do not use a cordless screwdriver or similar electrical device to secure the cooktops.
- Check that the alignment and installation height are correct.



Fig. 4.31 Securing the cooktops

- [1] Mounting bracket
[2] Washer
[3] Screw

- i** Before the Tepan stainless steel grill can be laid in the cut-out, the 4 angled plates must be fitted.

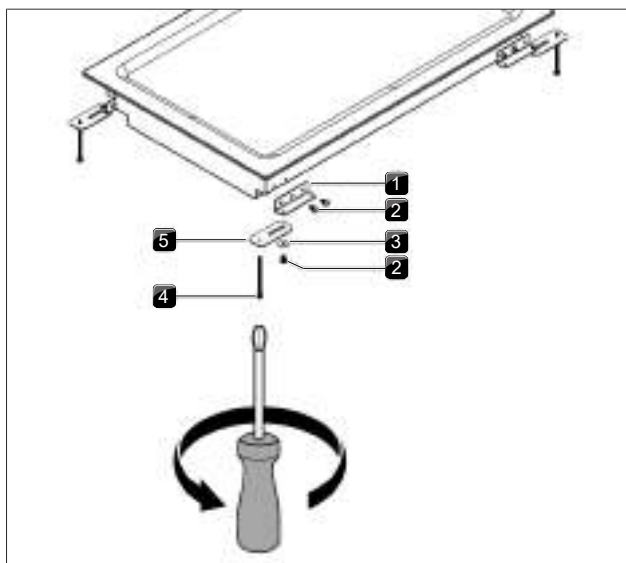


Fig. 4.32 Securing the Tepan stainless steel grill

- [1] Angled plate
[2] Screws
[3] Washer
[4] Screw (60 mm)
[5] Mounting bracket

4.12 Connecting external switch contacts

- i** The electronic unit can contain residual charge. You must therefore be careful not to touch the exposed contacts on the electronic unit.

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)	12 V DC 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)	250 V AC/30 V DC, 5 A maximum

Tab. 4.5 Switch contacts

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 off.

- i** No window contact switches may be installed that interrupt the control unit power supply (phase separation). Only the built-in interface is to be used.

4.12.1 Preparing the control unit

- Ensure that the control unit is disconnected from the power supply.
- Undo the screw on the housing cover.
- Carefully release all locks with a slotted screwdriver.
- Remove the housing cover from the housing subshell by lifting it up.
- Do not touch the electronic unit.

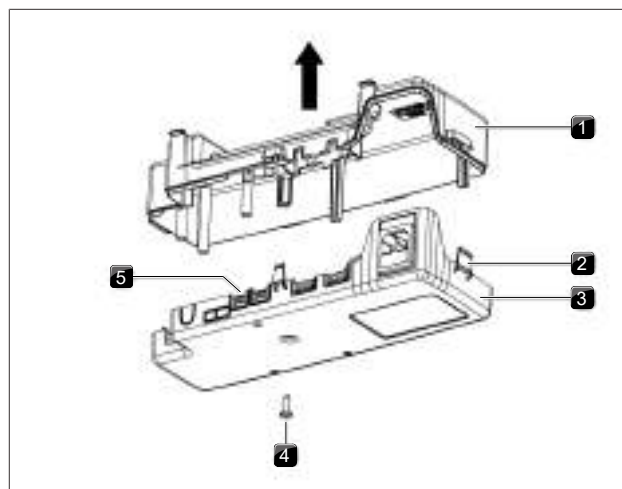


Fig. 4.33 Opening the control unit housing cover

- [1] Housing cover
[2] Locks
[3] Housing subshell
[4] Screw
[5] Electronic unit

4.12.2 Preparing connection cables for external switching equipment

The connection cable is only intended for internal use in buildings, private households, kitchens or offices.

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

Use connection cables of the following types to connect external switch devices.

Contact	Connection cable
Home In	H03VV-F 2 x 0.5mm ²
Home Out	H05VV-F 2 x 1 mm ²

Tab. 4.6 Connection cable

- Prepare the connection cable in accordance with the prescribed stripping lengths.
 - Please adhere to the maximum stripping length of the individual wires of 9 mm on the stripped wire end.
 - Please adhere to the maximum stripping length of the outer sheath of 25 mm on the insulated wire.

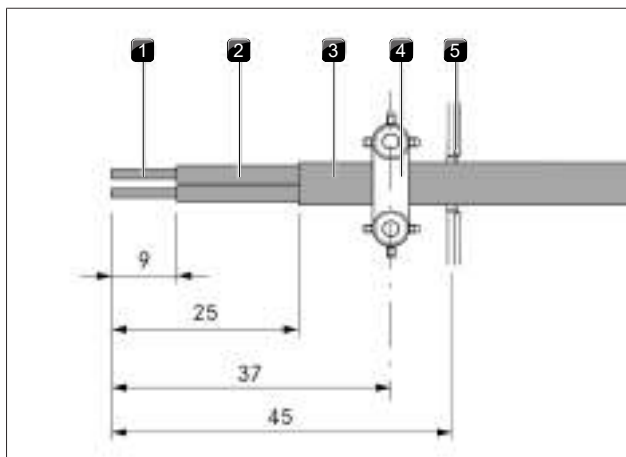


Fig. 4.34 Stripping lengths and installation position of the connection cable

- [1] Stripped wire end
- [2] Insulated wire
- [3] Jacketed cable
- [4] Strain relief clamp
- [5] Cable feed snap-out element

4.12.3 Installing the external switch device

- 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.

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.
- ▶ Connect the cable for the relevant contact to the switch contact clamp in accordance with the connection diagram.
- In order to connect the Home-In interface, the installed bridge must be removed.

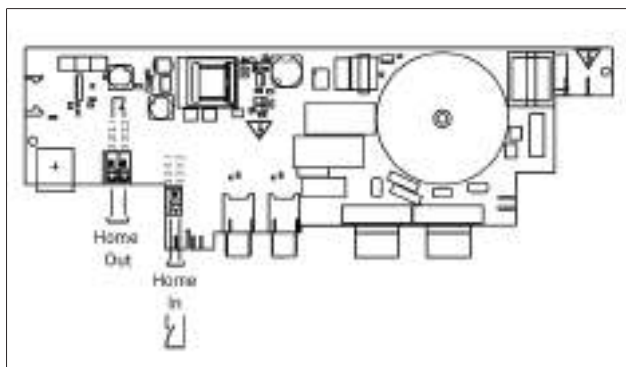


Fig. 4.35 Connection diagram for the external switch contacts

- ▶ Remove the snap-out element required for the cable feed from the plastic housing of the control unit.

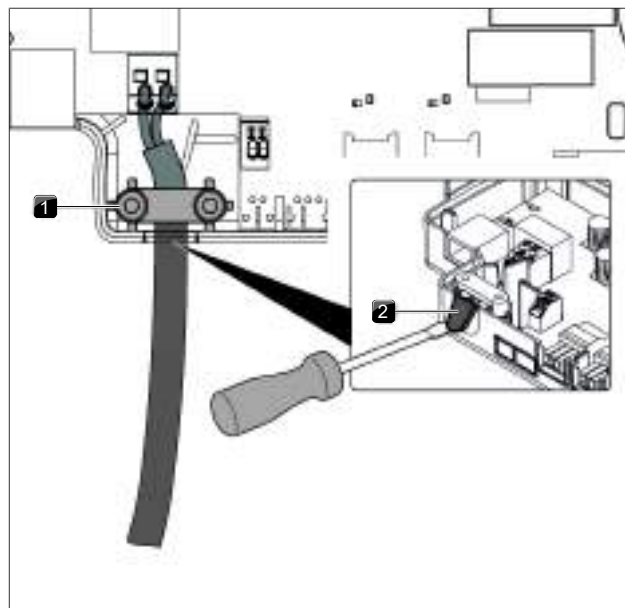


Fig. 4.36 Home-Out contacts with strain relief

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

- ▶ Clamp the connection cable in the strain relief clamp provided in accordance with the wire cross section or number of cables used.
- ▶ Check the correct installation, as well as the firm positioning of the connection cables.
- ▶ Close and secure the control unit cover.
- ▶ Screw down the lid with the screw provided (max. 2 Nm).
- ▶ Make sure that the cable is not damaged or trapped.

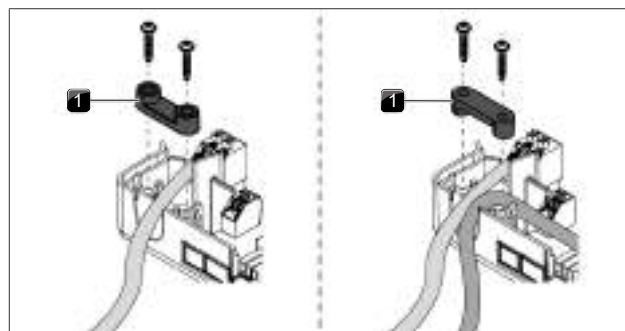


Fig. 4.37 Fitting the strain relief clamp

- [1] Strain relief clamp

4.13 Establishing communication and power connection

The cooktops of the Classic 2.0 system can only be operated with the central operating unit of the cooktop extractor. The communication link between the cooktop extractor and cooktops is established via the control lines of the central operating unit. The cooktops have their own electricity supply. This must be connected during installation. The central operating unit is supplied with electricity by the communication cable.

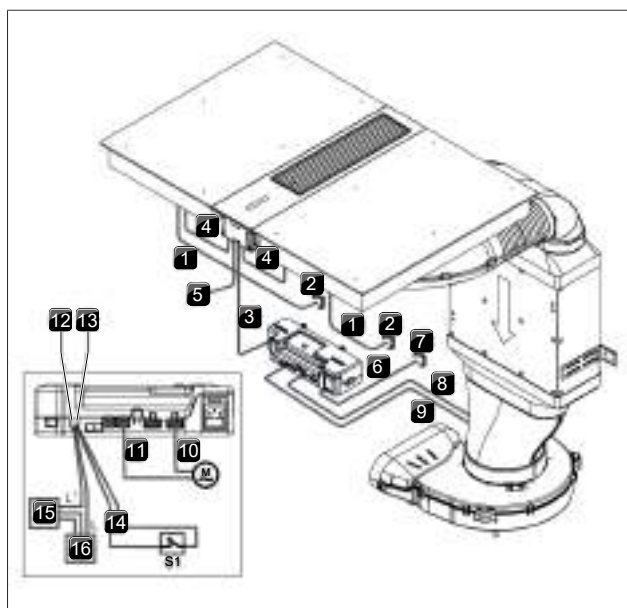


Fig. 4.38 Connection diagram for the cooktop extractor

- [1] Cooktop power supply cable
- [2] Power supply for each cooktop
- [3] CAT 5e communication cable
- [4] CAT 5e cooktop communication cable
- [5] USB interface
- [6] Control unit power supply cable (country-specific)
- [7] Control unit power supply
- [8] Fan 1 power supply cable
- [9] Fan 1 control line
- [10] Fan 2 power supply cable
- [11] Fan 2 control line
- [12] Home-Out port
- [13] Home-In port
- [14] Home-In connection cable
- [15] External device
- [16] Power supply for external device
- [M] Fan 2
- [S1] External switch contact

4.13.1 Establishing contact between the cooktop extractor and cooktops

- Only use the cables supplied in the scope of delivery.
- Connect the cooktop extractor control cables to the adjacent cooktops.
- Ensure that each cable is connected to the correct socket.
- The right angle connectors of the control cables are labelled L (left) and R (right).

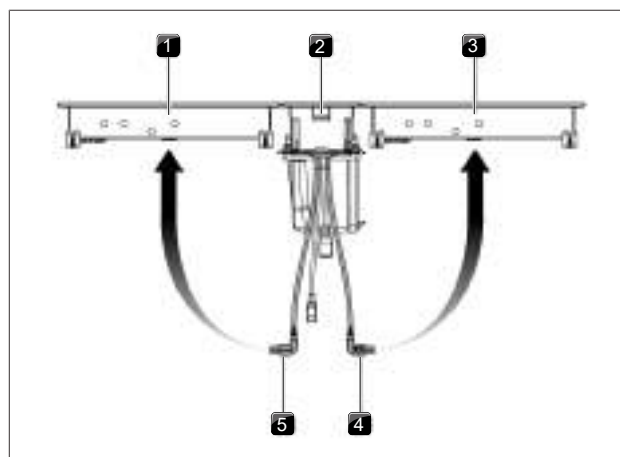


Fig. 4.39 Connecting the control cables to the cooktops

- [1] Left cooktop
- [2] Cooktop extractor
- [3] Right cooktop
- [4] Right cooktop control cable (R)
- [5] Left cooktop control cable (L)

4.13.2 Fitting split ferrite sleeves

The cooktop extractor connection cable must be filtered with a ferrite sleeve for reasons of electromagnetic compatibility.

- Fit the split ferrite sleeve provided in the scope of delivery to the communication connection cable.

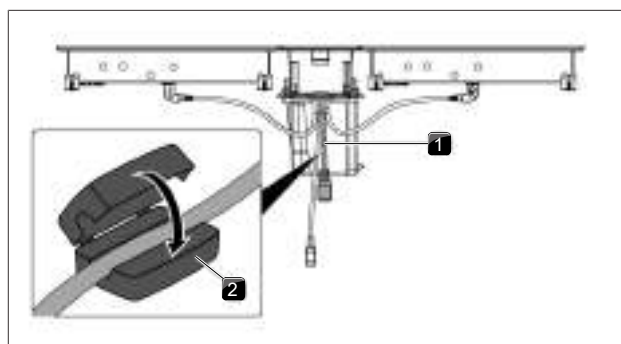


Fig. 4.40 Fitting split ferrite sleeves

- [1] Connection cable
- [2] Split ferrite sleeve

4.13.3 Establishing contact between the operating unit and control unit

- Using the CAT 5e communication cable (included in the scope of delivery) link the connections on the operating unit to the control unit.
- The operating unit is controlled by and receives its power supply via the CAT 5e communication cable.

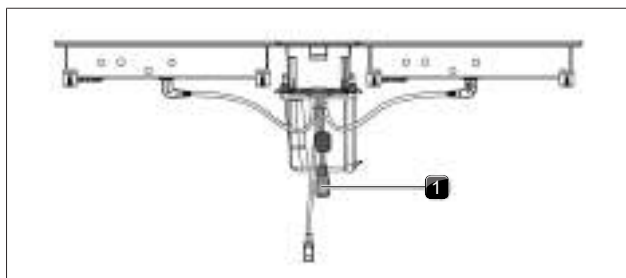


Fig. 4.41 Communication cable socket

[1] CAT 5e communication cable socket

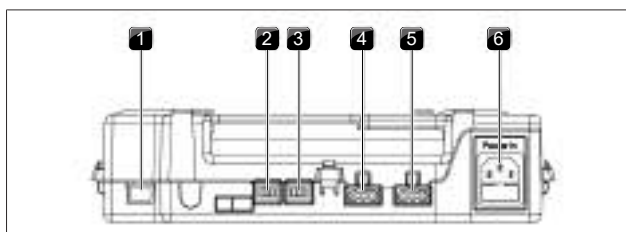


Fig. 4.42 Control unit ports

- [1] CAT 5e communication cable socket
- [2] Control unit socket for fan 2
- [3] Control unit socket for fan 1
- [4] Mains cable socket for fan 2
- [5] Mains cable socket for fan 1
- [6] Mains cable socket with micro fuse

4.13.4 Connecting fans to the control unit

- Connect the fan control line to the control unit.
- Connect the fan power supply cable to the control unit.
- When connecting the fan control cable and mains cable it does not matter if you use socket 1 or 2 on the control unit.

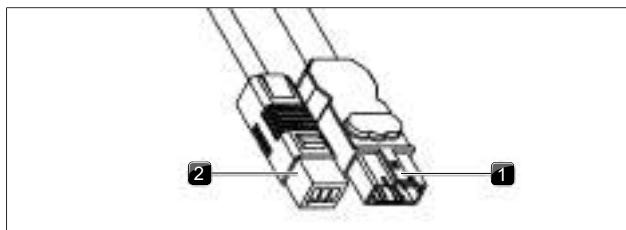


Fig. 4.43 Fan connection plug

- [1] Fan mains cable connection plug
- [2] Fan control cable connection plug

4.13.5 Positioning the control unit

The control unit must be placed inside the kitchen unit. Position the control unit inside the kitchen unit in such a way that it cannot be freely accessed by the user (e.g. behind the plinth panel). When positioning the control unit please observe the length of the mains cable (1 m).

Permitted positions inside the kitchen unit:

- loose on a false floor
- loose on the shallow duct
- mounted on the kitchen unit

4.13.6 Connecting to the mains

- Observe all safety and warning information (see "2 Safety").
- Observe all national and regional laws and regulations as well as the supplementary regulations of the local utility companies.

i The appliances may only be connected to the mains power supply by certified specialists. The specialist also assumes responsibility for the proper installation and commissioning.

i A damaged power supply cable must be replaced by a suitable power supply cable. This may only be done by an authorised member of the After Sales Service team.

i The Tepan stainless steel grill is intended to be operated on a supply network with a maximum impedance Z_{max} at the transfer point (mains connection) of 0.1385 ohms. The user is to ensure that the appliance is only operated on a mains supply network which meets this requirement. If necessary, ask the local energy supply company about the system impedance.

Cooktop power connection

The mains cable to be used (pre-assembled) must be at least Type H05V2V2-F.

Connection	Fuse protection	Minimum cross-section
1-phase connection	1 x 16 A	1.5 mm ²

Tab. 4.7 Fuse protection and minimum cross-section

- Switch off the main switch/automatic circuit breaker before connecting the cooktop.
- Secure the main switch/automatic circuit breaker against being switched back on without permission.
- Make sure the power to the appliance is disconnected.
- Only connect the cooktop using a permanent connection to a power supply cable.



Fig. 4.44 Connection diagram 1-phase connection cooktop

Connecting the control unit to the power supply

- Connect the mains cable for the control unit to the mains.
- Check that installation has been carried out correctly.
- Switch on the main switch/automatic circuit breaker.

4.14 Gas installation

i Assembly, installation and commissioning must always occur in line with national laws, regulations and standards. The work must be performed by qualified specialists who know and comply with the additional regulations of the local energy supply companies.

- i** The gas must be connected before the cooktop is installed in the worktop.

4.14.1 Ventilation

This appliance is not connected to a flue gas evacuation device. It must be positioned and connected in accordance with the applicable installation conditions. Suitable ventilation measures must be particularly adhered to.

- Always ensure sufficient ventilation during operation (of the appliance).

4.14.2 Gas connection

The gas supply is connected to the appliance using a pre-installed elbow fitting with a 1/2" cylindrical internal thread. If, due to national regulations, a conical connection is required, the cylindrical/conical transition piece (provided) is to be used.

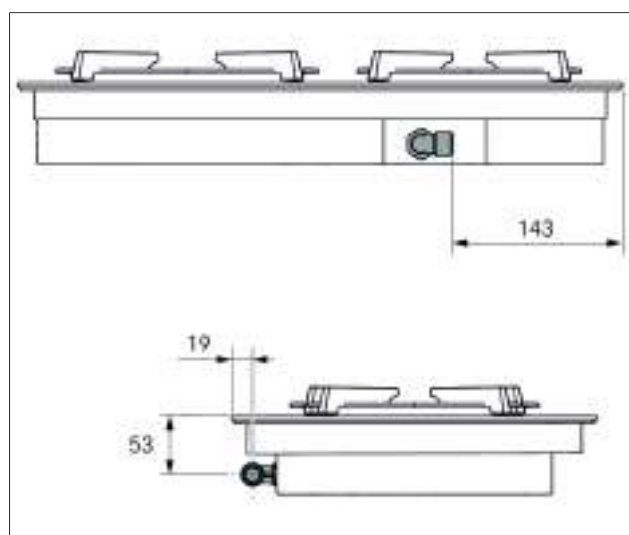


Fig. 4.45 Position of gas connection

4.14.3 Connecting the gas supply

- Turn off the gas supply.
- Switch off the main switch/automatic circuit breaker before connecting the cooktop.
- Secure the main switch/automatic circuit breaker against being switched back on without permission.
- Make sure the power to the appliance is disconnected.
- Check the gas type and gas pressure of the gas supply pipe.
- Ensure that the appliance is equipped with the correct nozzle type in order to guarantee a correct burner flame and safe operation.
- Remove the protective cap from the elbow fitting.
- Connect the appliance to the gas supply.
- When the cooktop has been installed, use suitable testing equipment to check all the connections between the cooktop and the gas supply. There must not be any leaks.
- Create a leak test record and give this to the user.

4.14.4 Changing the gas type

- Turn off the gas supply to the gas supply pipe.
- Switch off the main switch/automatic circuit breaker.

- Secure the main switch/automatic circuit breaker against being switched back on without permission.
- Make sure the power to the appliance is disconnected.

Changing the gas burner nozzle in the gas burner

The nozzles regulate the maximum gas throughflow for each burner and gas type/pressure. The gas cooktop is set by default to natural gas G20/20 mbar (pre-assembled). If another type of gas is used, the configuration menu on the cooktop must be adjusted accordingly. Use only stamped and approved nozzles.

- i** The burner nozzles, gas type and pressure may only be changed by a certified engineer or BORA service technician. They also assume responsibility for the proper gas installation and commissioning.

Cat.	
I2E+	G20/G25: 20/25 mbar, BE, FR
I2E	G20: 20 mbar, DE, LU, PL, RO
I2EK	G25.3: 25 mbar, NL
I2H	G20: 20 mbar, AT, CH, CZ, DK, EE, ES, FI, GB, GR, HR, IE, IT, LT, LV, NO, PT, RO, SE, SI, SK, TR
I3+	G30/G31: 28-30/37 mbar, BE, CH, CY, CZ, ES, FR, GB, GR, IE, IT, PT, SI, TR
I3B/P	G30/31: 30 mbar, BE, CY, CZ, DK, EE, FI, FR, GB, GR, HR, IT, LT, NL, NO, PL, PT, RO, SE, SI, TR
I3B/P	G30/31: 50 mbar, AT, CH, DE, FR, SK
I3P	G31: 37 mbar, BE, CH, CZ, ES, FR, GB, GR, HR, IE, IT, LT, NL, PL, PT, SI, SK, TR
II2E+3+	G20/G25: 20/25 mbar, G30/G31: 28-30/37 mbar, BE, FR
II2EK3B/P	G25.3: 25 mbar, G30/31: 30 mbar, NL
II2H3+	G20: 20 mbar, G30/31: 28-30/37 mbar, CH, CY, CZ, ES, GB, GR, IE, IT, LT, PT, SI, SK, TR
II2H3B/P	G20: 20 mbar, G30/G31: 30 mbar, CY, CZ, DK, EE, FI, GR, HR, IT, LT, NO, RO, SE, SI, SK, TR
II2H3B/P	G20: 20 mbar, G30/31: 50 mbar, AT, CH, SK
II2L3B/P	G25: 25 mbar, G30/31: 30 mbar, RO

Tab. 4.8 Overview of gas categories

AT	eingestellt:	Erdgas H	I2H	20 mbar
BE	eingestellt:	Erdgas E+	I2E+	20 / 25 mbar
BE	ingesteld:	Aardgas E+	I2E+	20 / 25 mbar
BE	reglage:	Gaz naturel E+	I2E+	20 / 25 mba
CH	eingestellt:	Erdgas H	I2H	20 mbar
CH	impostato per:	Gas metano H	I2H	
CH	impostato per:	Gaz naturel H	I2H	
CY	ενεργοποιημένη:	φυσικό αέριο H		20 mbar
CZ	nastaveno na:	Zemní plyn H	I2H	20 mbar
DE	eingestellt:	Erdgas E	I2H	20 mbar
DK	sat på:	Naturgas H	I2H	20 mbar
EE	sisse lülitatud:	Maagaas H	I2H	20 mbar
ES	ajustado:	Gas natural H	I2H	20 mbar
FI	asetettu:	Maakaasu H	I2H	20 mbar
FR	reglage:	Gaz naturel E+	I2E+	20 / 25 mbar
GB	set for:	Natural gas H	I2H	20 mbar
GR	ενεργοποιημένη:	φυσικό αέριο H	I2H	20 mbar
HR	uključeno:	Prirodni plin H	I2H	20 mbar
IE	set for:	Natural gas H	I2H	20 mbar
IS	sett á:	jarðgas H		20 mbar
IT	aggiustato a:	Gas naturale H	I2H	20 mbar
LT	nustatytas:	Gamtinės dujos H	I2H	20 mbar
LU	festgeluecht:	Natierlech Gas E		20 mbar
LV	ieslēgts:	Dabāsgāze H	I2H	20 mbar
MT	issettjat fuq:	Gass naturali H		20 mbar
NO	satt på:	Naturgass H	I2H	20 mbar
PL	ustawić:	Gaz ziemny E	I2H	20 mbar
PT	regulado para:	Gás natural H	I2H	20 mbar
RO	setat pe:	Gaz natural H	I2H, I2E	20 mbar
SE	sätt på:	Naturgas H	I2H	20 mbar
SI	nastavljen na:	Zemeljski plin H	I2H	20 mbar
SK	zapnuté:	Zemný plyn H	I2H	20 mbar
TR	ayarlamak:	Doğal gaz H	I2H	20 mbar

Tab. 4.9 Voreinstellungen Gaskochfeld

The stamp on the nozzles corresponds to the values in the nozzle table and can be found either on the top or side of the nozzles.

Gas type/gas pressure mbar	Ø SR burner/normal burner	Ø R burner/high-power burner
G20/20	104	125
G25/20	110	131
G20/10	122	155
G20/13	115	149
G25/25	104	131
G25.3/25		
G20/25	100	119
G30/29	69	85
G31/37		
G30/50	62	78
G30/31–50 mbar		

Tab. 4.10 Nozzle table

Total nominal connection values for liquid gas:

Gas type	mbar	kW	g/h	m ³ /h
G30/G31	50	4.90	328	0.129
G30	29	5.00	348	0.137

Tab. 4.11 Liquid gas nominal connection values

Total nominal connection values for natural gas:

Gas type	mbar	kW	m ³ /h
G20	screwdriver	5.00	0.449
G25	25	5.10	0.538
G25.3	25	5.10	0.538
G20	13	5.10	0.486
G25	20	4.80	0.501

Tab. 4.12 Natural gas nominal connection values

- Remove the pan support.
- Remove the burner cap from the burner head.
- Remove the burner head from the gas outlet.

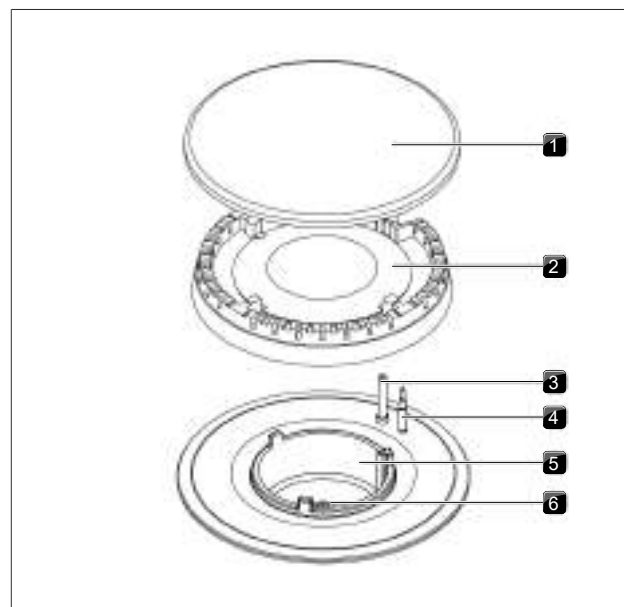


Fig. 4.46 Gas burner structure

- [1] Burner cap
- [2] Burner head
- [3] Electric igniter
- [4] Safety thermocouple
- [5] Burner housing
- [6] Gas burner nozzle

- Unscrew the gas burner nozzle from the gas burner
- Screw the corresponding nozzle for the gas type to be used into the gas burner.
- Put the burner parts back together again.
- Position the burner head correctly on the gas outlet.
- Ensure that the safety thermocouple and the electric igniter are positioned in the correct opening.
- Position the burner cap so that it fits perfectly, sitting straight on the burner head.
- If burner parts are not positioned correctly, the electric igniter will not work.

- Place the pan support straight on the gas burner so it fits perfectly.

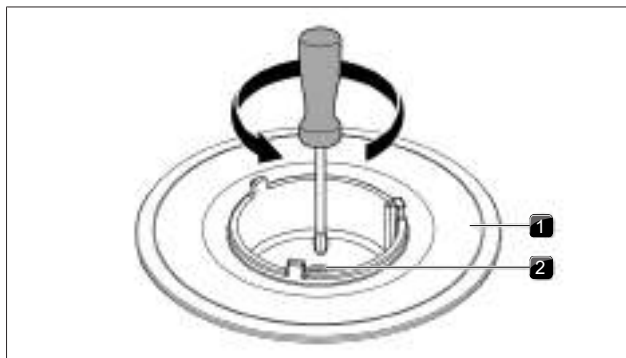


Fig. 4.47 Cooktop burner with gas burner nozzle

- [1] Gas burner
[2] Gas burner nozzle

Affixing the nozzle set nameplates

Affix the nozzle set nameplates included in the scope of delivery in the corresponding space over the nozzle set nameplate on the bottom of the cooktop and on the penultimate page of the operating instructions.

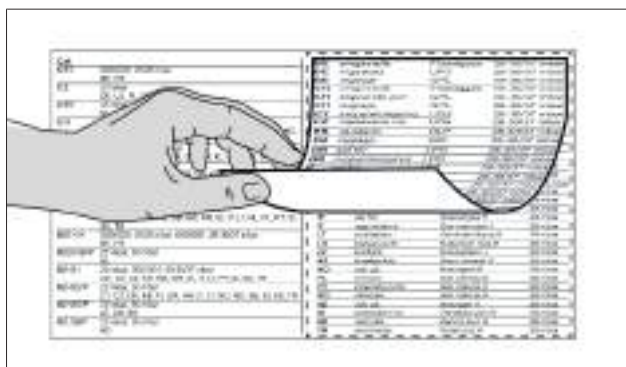


Fig. 4.48 Affixing the nozzle set nameplates

4.14.5 Gas configuration

- i** The burner nozzles, gas type, gas pressure and gas characteristic curve may only be changed by a certified engineer or BORA service technician. They also assume responsibility for the proper gas installation and commissioning.
- i** Gas characteristic curve A must not be used in the case of liquid gas (G30/31).
- i** It is important that the gas type, gas pressure and characteristic curve are set correctly to ensure safe, failure-free operation of the gas cooktop.
- i** You can see detailed information on the configuration menu in the operating instructions.

4.15 Initial operation

- i** Minimum requirement for operating the gas cooktop: System software 03.00 (or higher).

4.15.1 Configuration

- i** You can see detailed information on operation and configuration in the operating instructions.

- Ensure that all appliances are connected correctly and connected to the power supply (fused) prior to initial operation.
- Exception: during initial operation, the kitchen fitter may use a temporary power supply for the control unit in order to configure the appliance (e.g. using the site power supply during the building phase).
- The settings made are saved and will not be affected when the system is disconnected from the mains.
- The final mains connection to the appliances may only be set up by certified specialists.

The BORA Classic 2.0 system comes factory-set with the following extractor configuration:

- Recirculation mode
- Filter F1 (ULBF)
- One fan

If a different extractor version is installed (e.g. exhaust air), the menu must be used to adjust the configuration.

- Start the system (long press on the power button).
- If necessary, use the menu to adjust the configuration for the installed extractor version.
- Check that all cooktops are displayed according to the way they are installed.
- To do this, check the display on the operating panel (cooking zone indicators).

If cooktops have not been recognised correctly:

If cooktops are not correctly recognised by the system, they will either not be displayed at all or will be shown with an error code E (see Operating instructions).

- Switch the system off (long press on the power button .
- Check the connections of the communication cables.
- Check the cooktop electricity supply.
- Switch the system back on again and check that all cooktops have been correctly recognised.

If all cooktops have been recognised correctly:

- Perform the basic configuration (see Operating instructions).

4.15.2 Function test

- Carry out a thorough function test on all appliances.
- In the event of error messages, see the "Troubleshooting" chapter.

4.15.3 Function test on gas cooktops

Function test on the gas cooktop

- Switch the cooking zone on.
- The electronic gas regulator will calibrate itself (humming noises) and then the gas flame will automatically ignite in the selected cooking zone. The gas flame will burn steadily and evenly.

Using the gas cooktop together with the cooktop extractor for the first time

- Switch the cooktop extractor to the maximum power level.
- Switch all cooking zones to the minimum power level.

The electronic gas regulator will calibrate itself (humming noises) and then the gas flame will automatically ignite in the selected cooking zone. The gas flame will burn steadily and evenly (no reignition). The gas flame will be slightly affected by the cooktop extractor (airflow) – this is normal.



If the gas flame goes out, is excessively affected by the extractor and/or the flame is not as it should be (e.g. soot production, flame blowback, etc.), the characteristic curve must be increased, as well as the ventilation in exhaust air mode, if necessary, or the return flow aperture in recirculation mode.

- Provide the user with the accessories and operating and installation instructions, which are to be kept in a safe place.
- Affix the identification plates provided to the penultimate page in the operating instructions.

If a gas cooktop is installed:

- also affix the nozzle set identification plate to the penultimate page of the gas cooktop operating instructions.

Faults when using the gas cooktop for the first time

When operating for the first time or after a prolonged period without use or when the liquid gas bottles have been changed, faults are possible.

The burner does not ignite.

There may be air in the gas pipe.

- Repeat the ignition process.

The burner does not ignite and the cooktop does not react.

The electronic gas regulator must be recalibrated.

- Using the gas configuration menu, reset the gas regulator.

4.16 Sealing the appliances

- Once all of the installation work and initial operation is complete, seal the appliances all the way round (also between the cooktop extractor and cooktop) with black, heat-resistant silicone sealant.
- Make sure that no silicone sealant gets under the cooktop.

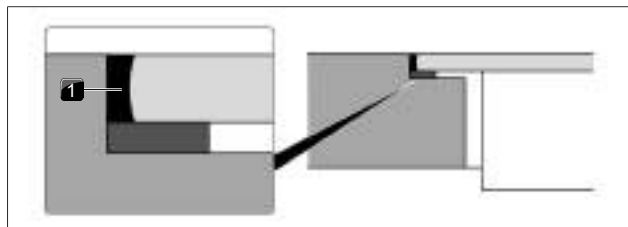


Fig. 4.49 Silicone sealant for flush installation

[1] Black, heat-resistant silicone sealant

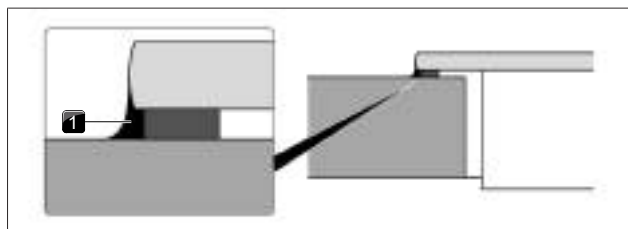


Fig. 4.50 Silicone sealant for surface mounting

[1] Black, heat-resistant silicone sealant

4.17 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.

5 Decommissioning, disassembly and disposal

- Observe all safety and warning information (see "2 Safety").
- Follow the enclosed manufacturer's information.

5.1 Decommissioning

Decommissioning refers to ultimate decommissioning and disassembly. Following decommissioning, the appliance can either be installed in another unit, sold on privately or disposed of.

i The electricity and gas connections may only be disconnected and cut off by certified specialists.

- Switch the appliance off before decommissioning (see operating instructions)
- Disconnect the appliance from the power supply.
- Disconnect the appliance from the gas supply.

5.2 Disassembly

To be removed, the appliance must be accessible for disassembly and disconnected from the power supply.

- In the case of gas appliances, it must be ensured that the gas is disconnected.
- Remove the appliance fastenings.
- Remove the silicone seals.
- Disconnect the appliance from the exhaust duct.
- Lift the appliance up and out through the top of the worktop.
- Remove any other accessories.
- Dispose of the old appliance and any soiled accessories as described under "Environmentally-friendly disposal".

5.3 Environmentally-friendly disposal

5.3.1 Disposal of transport packaging

i The packaging protects the appliance from damage during transport. The packaging materials have been selected taking into account the environment and their disposal and are therefore recyclable.

Recycling the packaging saves raw materials and reduces waste. Your specialist retailer will take the packaging back.

- Give the packaging to your specialist retailer
- or
- dispose of the packaging correctly observing regional regulations.

5.3.2 Disposal of accessories

Dispose of unnecessary or used accessories (activated charcoal filters, etc.) accordingly taking into account the regional regulations.

5.3.3 Disposal of the old appliance



Electrical appliances with this mark must not be disposed of in the household waste at the end of their service life. They must be disposed of at a collection point for the recycling of electrical or electronic appliances. Information on this can be obtained from the city or local councils.

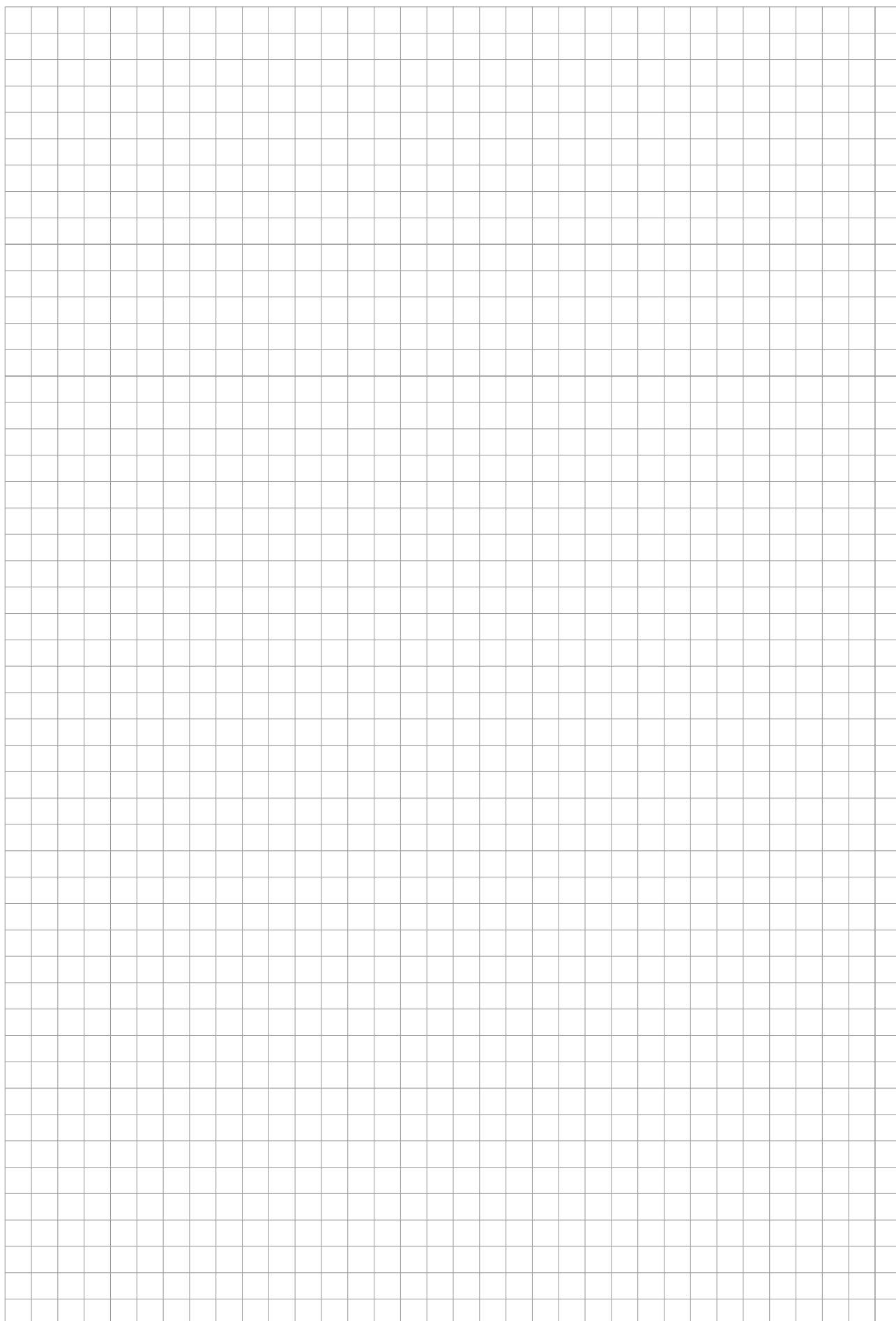


Waste electrical and electronic appliances often still contain valuable materials. However, they also contain harmful substances that were necessary to make them work and ensure their safety. If placed in the household waste or handled incorrectly, they may harm human health and damage the environment.

- Never dispose of your old appliance in the household waste.
- Take the appliance to a regional collection point for the return and further processing of electrical and electronic components and other materials.

Notes





Installation instructions:

○Original

⊙Translation

Manufacturer: BORA Vertriebs GmbH & Co KG

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