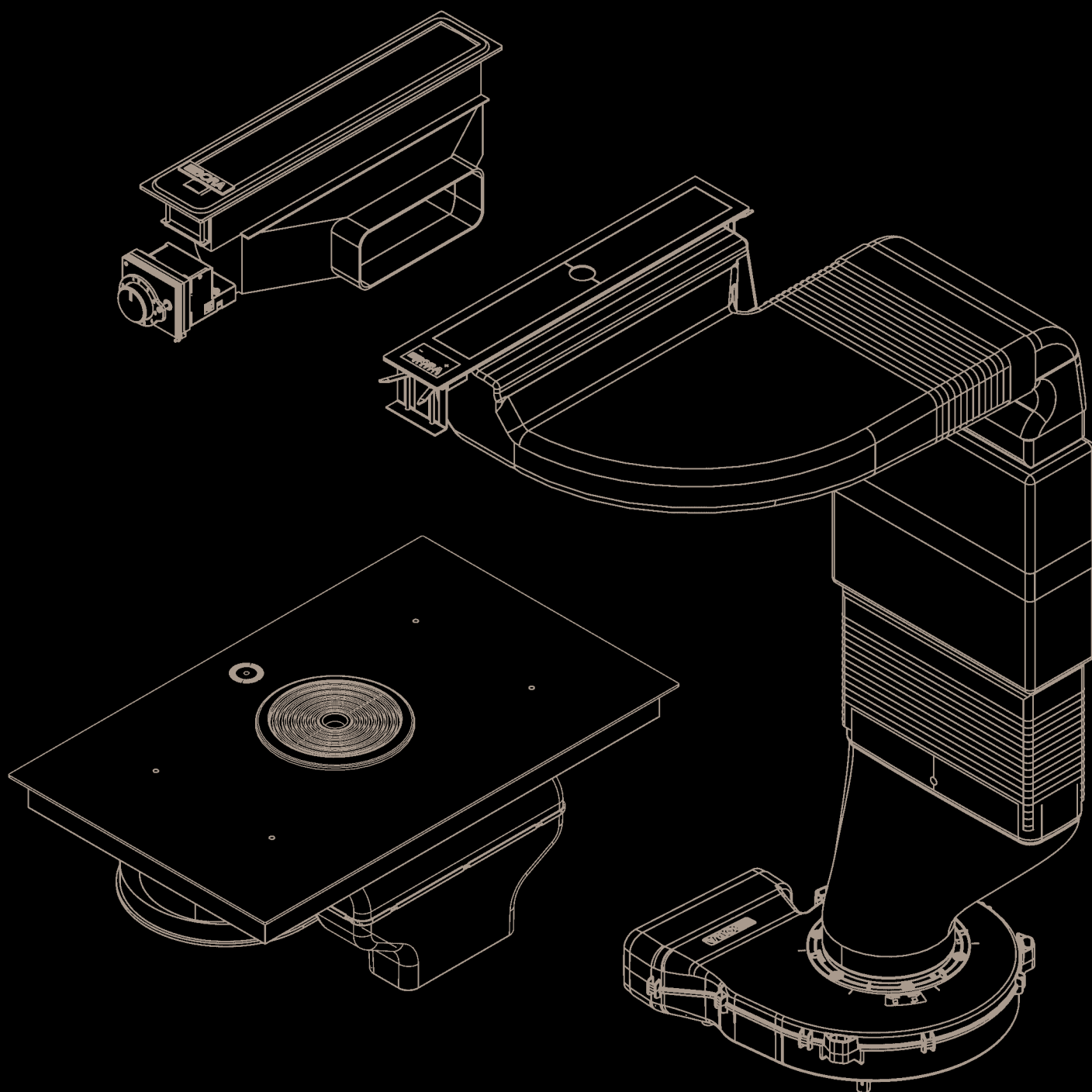


BORA Professional
BORA Classic
BORA Basic

 **BORA**



Ventilation handbook

Innovation not imitation

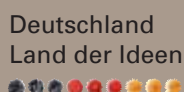
I have been active in the kitchen industry for over 20 years. I was never happy with suspended cooktop extractor hoods. At first, for aesthetic reasons. Later, it was also due to the high noise factor, the difficulty of cleaning them and the unpleasant cooking smell. To meet the demands of my customers, I had the idea of the cooktop extractor. By constantly tinkering and making discoveries, we created an innovative system that extracts the cooking vapour downwards more effectively than vapour extractor hoods.

BORA cooktop extractors and cooktops have now convinced many demanding customers – not just due to their superior technology and their attractive design. It is also precisely the system concept, whereby the cooktop and extractor are optimally set up for one another, that meets the wishes of ambitious amateur chefs for a demanding kitchen design.

To meet the high demands of your customers and ours, we created this ventilation booklet. We thus aim for all planners and assemblers of high-end kitchen solutions who offer their customers uncompromising quality and exceptional aesthetics. We will respond to all questions in relation to our products and the perfect assembly of these on the next pages. However, should you have further questions or suggestions, please contact us directly.

Willi Bruckbauer

Our products and our company have been awarded well-known prizes many times, including the 'Deutsche Gründerpreis' (German Founders' Prize), the innovation initiative '365 Orte im Land der Ideen' (365 Places in the Land of Ideas), reddot Award 2012 and the 'Plus X Award' 2013.



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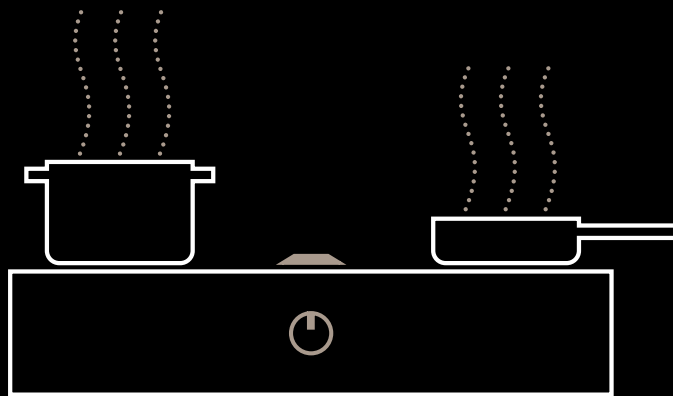
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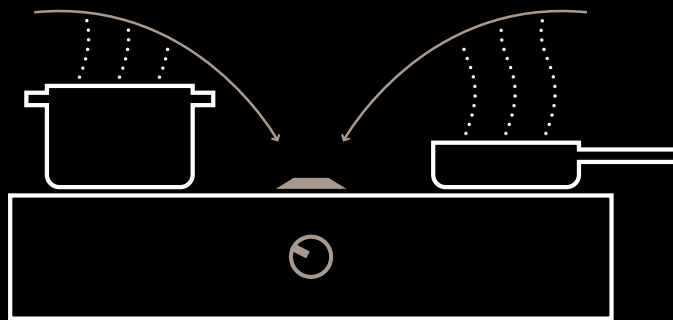
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The BORA principle: Or physics can be so ingenious

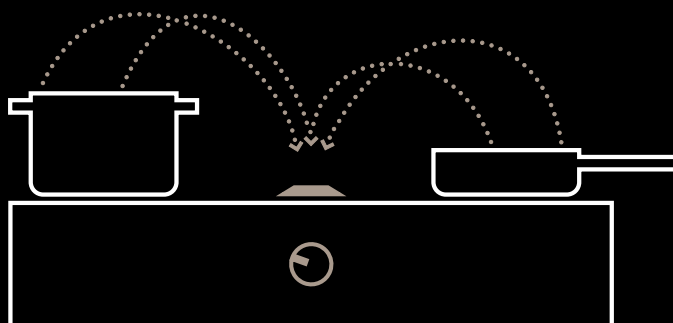
We don't allow cooking vapours and smells to rise; we extract them at their source: directly at the cooktop, directly from the pot, roaster, pan or grill. And we do this not by magic but by applying the basic principles of fluid mechanics. We simply use a lateral flow which is greater than the speed at which the cooking vapours rise. This is how to enjoy completely new perspectives in the kitchen: without obtrusive cooktop extractor hoods or noise right by your ears – but with completely new freedom in kitchen planning.



Cooking vapours rise at a maximum speed of one metre per second.



The BORA cooktop extractor extracts downwards at approx. four metres per second.



The higher lateral flow extracts cooking vapours and smells effectively, directly at the cooktop.

Extremely quiet

Even at the highest level, BORA is considerably quieter than the noise that a steak makes when it is being grilled.



Unobstructed view

No corners or edges at head level, no bent-over posture, no steam on your glasses or in your field of vision.



Easy to clean

Without tools or stress: only three movable parts – child's play to take apart and clean in the dishwasher.



Cooking and saving energy

BORA uses the flow speed smartly and thus saves valuable energy and resources.



At a glance: These advantages are pleasure at its purest

In the past, conventional cooktop extractor hoods have always limited the planning of demanding kitchen spaces. With the innovative, aesthetic and effective BORA system, you can enjoy new planning freedom and impress your customers.

Kitchen architecture

BORA is the new benchmark for kitchen aesthetics: cooking in front of windows and under sloped roofs is no longer a problem. Thanks to the smaller dimensions, you'll hardly give up any space in your floor cupboards.



Best materials

Pure stainless steel and glass ceramic free of heavy metals from SCHOTT® – your guarantee of long-lasting satisfaction with BORA.



Fresh air

With the BORA cooktop extractor system, you cook in air that's fresh – odour particles are effectively locked into the stainless steel filter. BORA thus has an impressive 100% clean rate.



Recirculation or extraction? BORA has the answers

You have the choice of being able to offer your customers two excellent systems.

The BORA cooktop extractor system works effectively against vapours – the ideal solution in any interior situation. The extracted air is routed through a flat duct directly to the exterior wall via the under-cabinet fan. Any outside wall – even on the north side – is possible. Odours are completely removed from the living area; heated air (primarily in cold times of the year) is routed out of the house less quickly than with conventional vapour extractor hoods. Thanks to compact dimensions, the BORA cooktop extractor system can be installed without sacrificing much space.

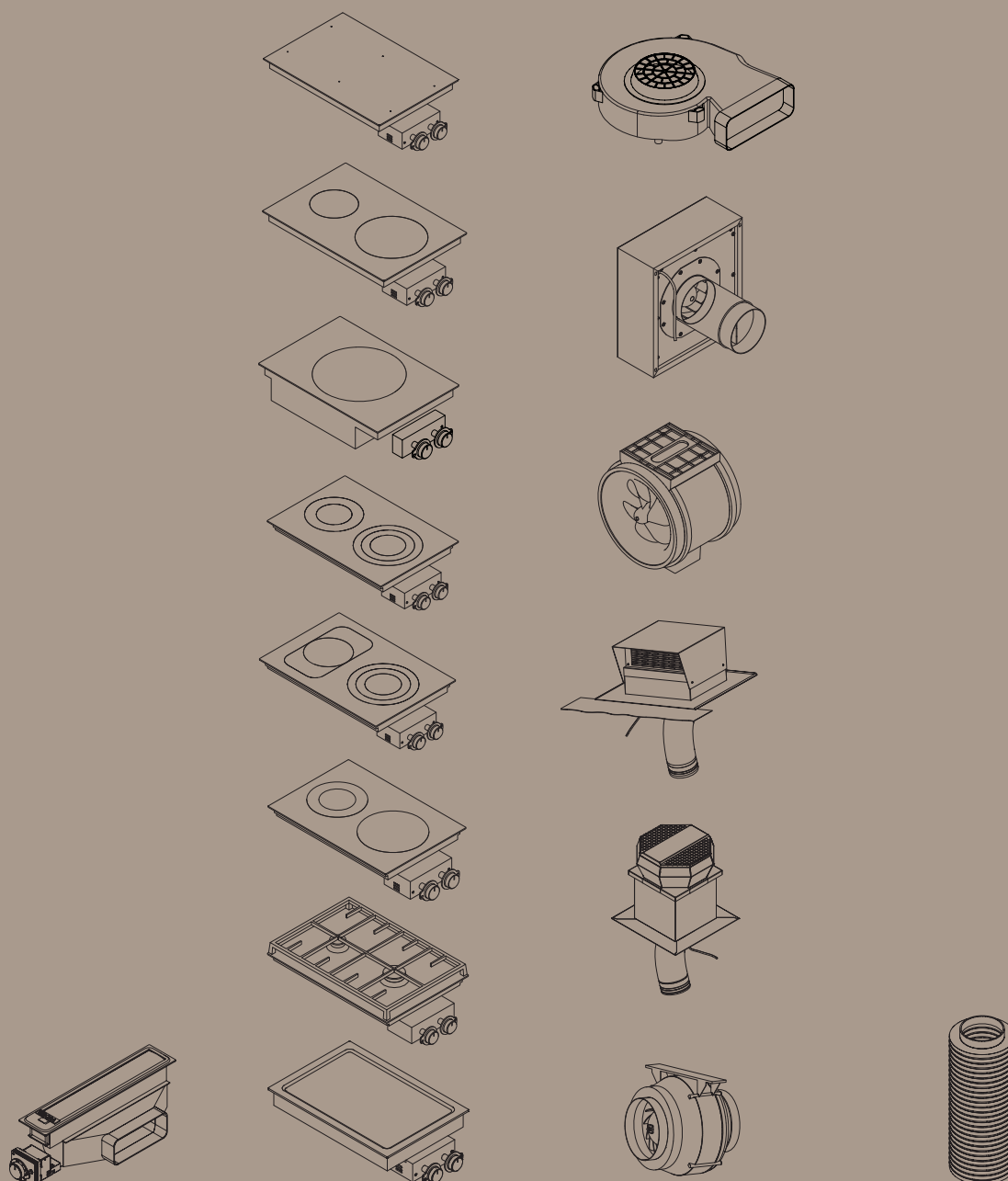
If an extraction solution is not possible for construction or power-related reasons, use the BORA recirculation system. With a high activated carbon content, our specially designed air recirculation units supply your kitchen with clean air – which is even virtually grease-free thanks to pre-filtering.



BORA Professional:

The professional system solution for every purpose

BORA cooktops and cooktop extractors are perfectly coordinated with each other. Irrespective of whether they use exhaust air or recirculation, materials that are high quality through and through, the best workmanship, pared down design and, of course, the particularly effective vapour extraction technology give you the certainty that you have made the best choice for your ambitious kitchen design. Here is an overview of the simple and well-designed way in which all of the BORA components, from the cooktop to the external wall, fit together.



BORA cooktop extractor

Particularly effective, particularly quiet, particularly attractive – the BORA Professional cooktop extractor coordinates perfectly with the BORA cooktops and offers a wide range of benefits.

From page 12

BORA cooktops

Whether induction, HiLight or gas – home chefs can choose from seven cooktops and one Tepan stainless steel grill with excellent performance data.

From page 14

BORA fan modules

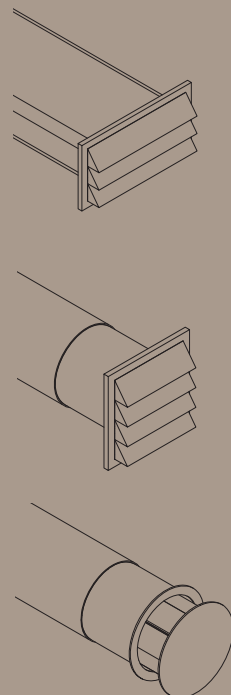
High-performance technology for the plinth, wall and ceiling, which are made to match the relevant conditions as closely as possible.

From page 88

BORA silencers

Effective sound insulation further reduces noise levels resulting in a calm and relaxing environment.

From page 22

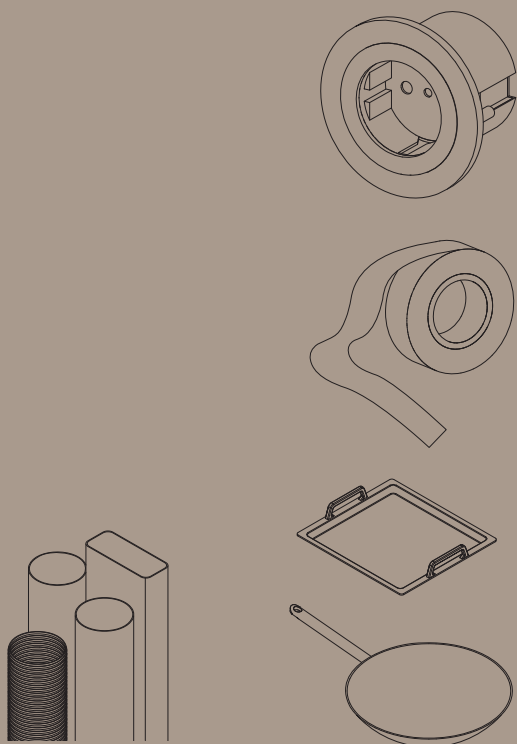


Exhaust air

Wall sleeves

Find out how Naber® wall vents affect the efficiency of the entire exhaust system.

From page 106



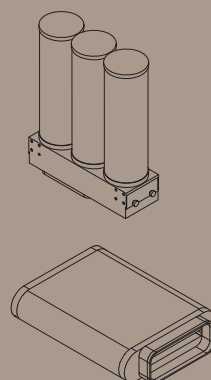
Exhaust ducting

Naber® ducts are the best choice for BORA cooktop extractors.

BORA Universal articles

We offer professional quality down to the smallest detail.

Recirculation



BORA recirculation unit

Professional performance in recirculation mode for flexible use in individual kitchen designs.

From page 94

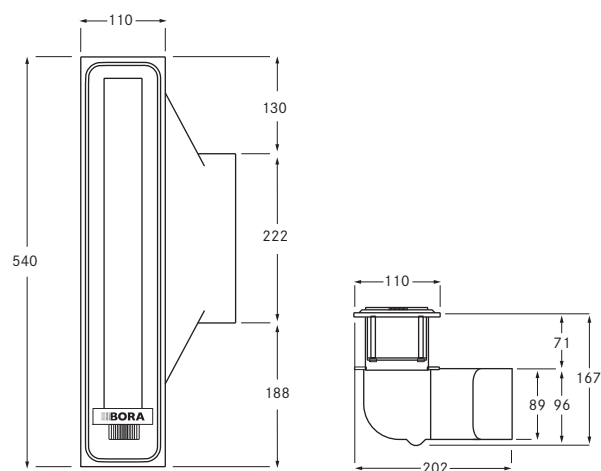
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From page 96

PL540E

BORA cooktop extractor





Technical data

Supply voltage (control box)	220 – 240 V
Frequency	50 Hz
Maximum power consumption (control box)	700 W
Fuse protection (internal)	3.15 A
Power supply cable	1 m, plug type F (EU)
Dimensions (width x depth x height)	110 x 540 x 167 mm
Weight (incl. accessories/packaging)	5 kg
Surface material	Stainless steel, brushed
Power levels	1–9, freely adjustable

Product description

- Freely adjustable power control
- Power control using solid stainless steel control knob
- Integrated cover flap
- Installation type: flush and surface-mounted
- Stainless steel grease filter
- Cooking zone indicator
- Automatic after-run
- Filter service display
- Safety shut-down
- Interface for external devices via Home In or Home Out
- Ability to connect two BORA fan modules

Scope of delivery

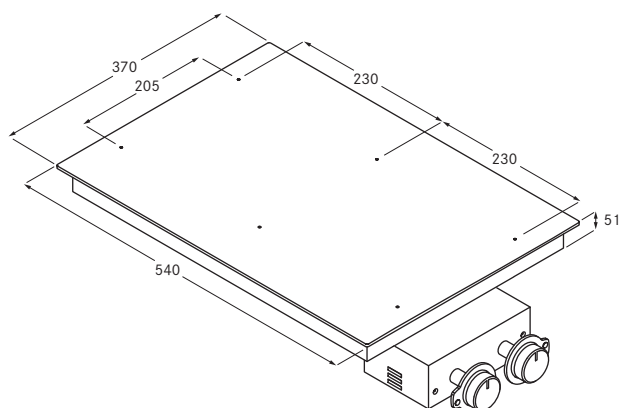
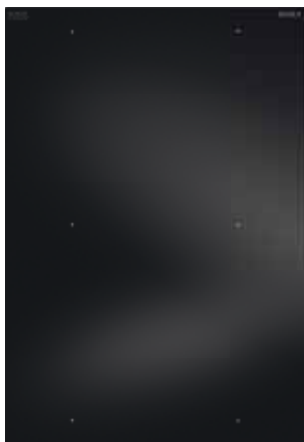
- PL540E cooktop extractor (cooktop extractor, stainless steel grease filter, rotating mechanism, cover flap)
- PLSK5E control box with electronic controls (power level sleeve, control knob, adjustment plates)
- USEE universal control unit
- CAT 5 communication cable
- Drilling template
- Height adjustment plate set
- Operating and installation instructions
- Power supply cable with type F (EU) plug



Planning instructions

- Can be combined with all BORA Professional cooktops and BORA Universal fan modules
- The worktop height and depth can be adjusted individually
- Exhaust ducting possible to either left or right
- Can be flush installed or surface-mounted
- Fan can be positioned in the plinth area as a result of the low installation height (100 mm)
- Universal control unit as central connection point can be simply and compactly positioned in the plinth area
- The control box with electronic controls and the Universal control unit are connected via a CAT 5 communication cable
- The drawers and/or shelves in the floor unit must be removable for maintenance and cleaning purposes
- The minimum cross-section of the air ducts must be 176 cm², which equates to a round pipe with a diameter of 150 mm

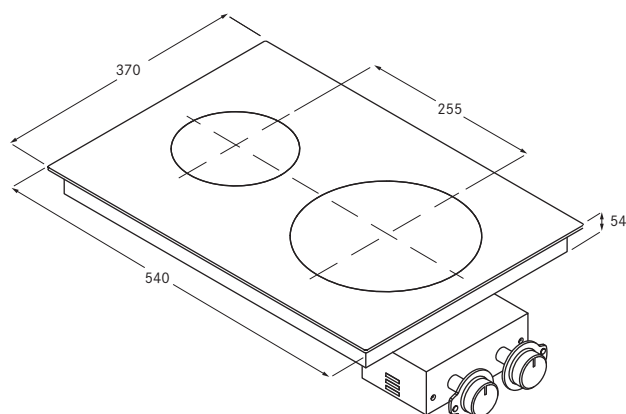
BORA surface induction glass ceramic cooktop with 2 cooking zones



Technical data	
Supply voltage	220 – 240 V
Frequency	50 Hz
Maximum power consumption	3.7 kW
Maximum power rating	3.7 kW
Minimum fuse protection	1 x 16 A
Power control	1 – 9, P, freely adjustable
Weight (incl. accessories / packaging)	9.7 kg
Surface material	SCHOTT CERAN®
Power supply cable	1.5 m
Dimensions (width x depth x height)	370 x 540 x 51 mm
Front induction cooking zone	2100 W
Power setting	3700 W
205 x 230 mm	
Rear induction cooking zone	2100 W
Power setting	3700 W
205 x 230 mm	

Product description
■ Heat retention level
■ Power setting
■ Bridging function
■ Residual heat display
■ Pan size recognition
■ Automatic heat up function
■ Digital power display on the cooktop
■ Childproofing feature
■ Safety shut-down
■ Please note that induction-compatible cookware must be used on induction cooktops
■ Make sure that the area below the induction cooktop is sufficiently ventilated

Scope of delivery
■ PFI 11 surface induction glass ceramic cooktop
■ PISK2 control box with electronic controls (power level sleeve, control knob, adjustment plates)
■ Mounting rails and straps
■ Glass ceramic scraper
■ Drilling template
■ Height adjustment plate set
■ Operating and installation instructions
■ Power supply cable 
Accessories (can be ordered separately)
■ PIKV10 100 cm cable extension
■ UGPI1 grill pan

BORA induction glass ceramic cooktop with 2 cooking zones

Technical data

Supply voltage	220 – 240 V
Frequency	50 Hz
Maximum power consumption	3.7 kW
Maximum power rating	3.7 kW
Minimum fuse protection	1 x 16 A
Power control	1 – 9, P, freely adjustable
Weight (incl. accessories / packaging)	9.7 kg
Surface material	SCHOTT CERAN®
Power supply cable	1.5 m
Dimensions (width x depth x height)	370 x 540 x 54 mm
1-ring front induction cooking zone	2300 W
Power setting	3700 W
Ø 230 mm	
1-ring rear induction cooking zone	1400 W
Power setting	2200 W
Ø 155 mm	

Product description

- Heat retention level
- Power setting
- Residual heat display
- Pan size recognition
- Automatic heat up function
- Digital power display on the cooktop
- Childproofing feature
- Safety shut-down
- Please note that induction-compatible cookware must be used on induction cooktops
- Make sure that the area below the induction cooktop is sufficiently ventilated

Scope of delivery

- PI11 induction glass ceramic cooktop
- PISK2 control box with electronic controls (power level sleeve, control knob, adjustment plates)
- Mounting rails and straps
- Glass ceramic scraper
- Drilling template
- Height adjustment plate set
- Operating and installation instructions
- Power supply cable 

**Accessories
(can be ordered separately)**

- PIKV10 100 cm cable extension

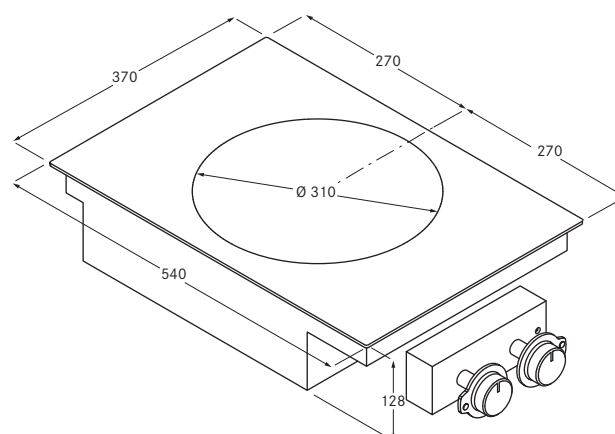
BORA induction glass ceramic wok cooktop



Important planning instructions:

- If the PIW1 induction glass ceramic wok cooktop is used, the groove dimensions must be increased to 7 mm for flush installation!
- The installation height of 128 mm means that the device cannot be installed over the exhaust ducting.
- Make sure that the area below the induction cooktop is sufficiently ventilated.
- Glass ceramic mould: radius 210 mm
- A wok must be used that loses its magnetic properties when the temperature rises (overheating protection).

We recommend the use of the wok available from us.



Technical data

Supply voltage	220 - 240 V
Frequency	50 Hz
Maximum power consumption	3.0 kW
Maximum power rating	3.0 kW
Minimum fuse protection	1 x 16 A
Power control	1 - 9, P, freely adjustable
Weight (incl. accessories / packaging)	11.0 kg
Surface material	SCHOTT CERAN®
Power supply cable	1.5 m
Dimensions (width x depth x height)	370 x 540 x 128 mm
Induction cooking zone	2400 W
Power setting	3000 W
Ø 310 mm	

Product description

- Power setting
- Residual heat display
- Pan size recognition
- Automatic heat up function
- Digital power display on the cooktop
- Childproofing feature
- Safety shut-down

Scope of delivery

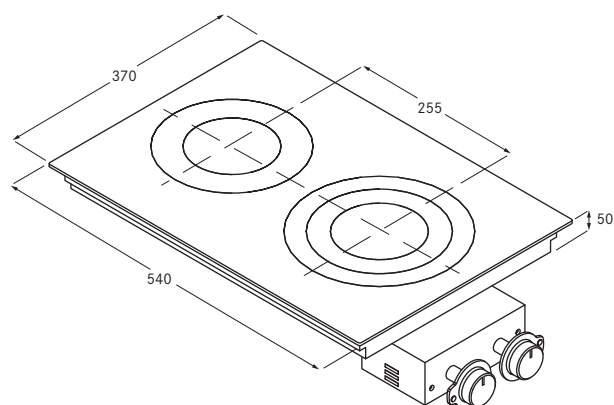
- Induction glass ceramic wok PIW1
- PIWSK2 control box with electronic controls (power level sleeve, control knob, adjustment plates)
- Mounting rail and straps
- Glass ceramic scraper
- Drilling template
- Height adjustment plate set
- Operating and installation instructions
- Power supply cable 

Accessories

(can be ordered separately)

- PIWKV10 100 cm cable extension
- Induction wok Demeyere Procontrol, Controlinduc, stainless steel, Ø 36 cm, HIW1

BORA HiLight glass ceramic cooktop with 2 cooking zones 3-ring/2-ring



Technical data

Supply voltage	380 – 415 V 2N
Frequency	50/60 Hz
Maximum power consumption	4.4 kW
Maximum power rating	4.4 kW
Minimum fuse protection	2 x 16 A
Power control	1 – 9, freely adjustable (Switching of 2/3 rings)
Weight (incl. accessories/packaging)	9.1 kg
Surface material	SCHOTT CERAN®
Power supply cable	1.5 m
Dimensions (width x depth x height)	370x540x50 mm
3-ring front cooking zone	
Ø 120/180/235 mm	800/1600/2500 W
2-ring rear cooking zone	
Ø 120/200 mm	800/1900 W

Product description

- HiLight glass ceramic cooktop with 3-ring/2-ring switching
- Residual heat display
- Childproofing feature

Scope of delivery

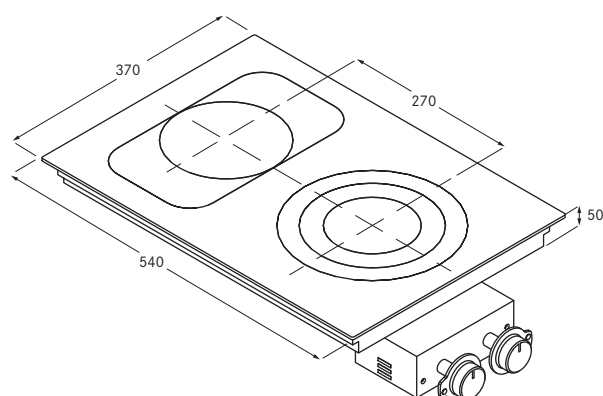
- PC32 HiLight glass ceramic cooktop
- PCSK2 control box with electronic controls (power level sleeve, control knob, adjustment plates)
- Mounting rails and straps
- Glass ceramic scraper
- Drilling template
- Height adjustment plate set
- Operating and installation instructions
- Power supply cable

Accessories

(can be ordered separately)

- PCKV10 100 cm cable extension

BORA HiLight glass ceramic cooktop with 2 cooking zones: 3-ring/roaster



Technical data

Supply voltage	380 – 415 V 2N
Frequency	50/60 Hz
Maximum power consumption	5.1 kW
Maximum power rating	5.1 kW
Minimum fuse protection	2 x 16 A
Power control	1 – 9, freely adjustable (Switching of 2/3 rings/roaster)
Weight (incl. accessories/packaging)	9.1 kg
Surface material	SCHOTT CERAN®
Power supply cable	1.5 m
Dimensions (width x depth x height)	370 x 540 x 50 mm
3-ring front cooking zone	800/1600/2500 W Ø 120/180/235 mm
Roaster rear cooking zone	1500 W Ø 165 mm 290 x 165 mm

Product description

- HiLight glass ceramic cooktop with 3-ring/roaster switching
- Residual heat display
- Childproofing feature

Scope of delivery

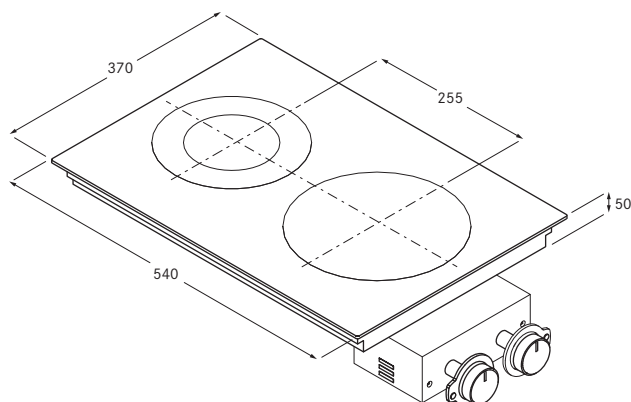
- PC3B HiLight glass ceramic cooktop
- PCSK2 control box with electronic controls (power level sleeve, control knob, adjustment plates)
- Mounting rails and straps
- Glass ceramic scraper
- Drilling template
- Height adjustment plate set
- Operating and installation instructions
- Power supply cable

Accessories

(can be ordered separately)

- PCKV10 100 cm cable extension

BORA hyper glass ceramic cooktop with 2 cooking zones: 1-ring/2-ring



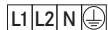
Technical data

Supply voltage	380 – 415 V 2 N
Frequency	50/60 Hz
Maximum power consumption	5.1 kW
Maximum power rating	5.1 kW
Minimum fuse protection	2 x 16 A
Power control	1 – 9, freely adjustable (Switching 2-ring/hyper)
Weight (incl. accessories/package)	9.1 kg
Surface material	SCHOTT CERAN®
Power supply cable	1.5 m
Dimensions (width x depth x height)	370 x 540 x 50 mm
1-ring front cooking zone	2100 W
Hyper stage	3200 W
Ø 235 mm	
2-ring rear cooking zone	800/1900 W
Ø 120/200 mm	

Product description

- Hyper glass ceramic cooktop: hyper/2-ring
- Save time with shorter heating times on the front cooking zone
- Residual heat display
- Childproofing feature

Scope of delivery

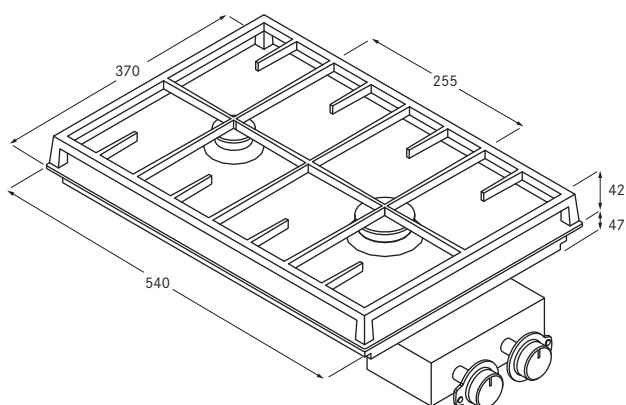
- Hyper glass ceramic cooktop PCH2
- PCHSK2 control box with electronic controls (power level sleeve, control knob, adjustment plates)
- Mounting rail and straps
- Glass ceramic scraper
- Drilling template
- Height adjustment plate set
- Operating and installation instructions
- Power supply cable 

Accessories

(can be ordered separately)

- PCKV10 100 cm cable extension

BORA gas glass ceramic cooktop with 2 cooking zones



Technical data	
Supply voltage	220 – 240 V
Frequency	50/60 Hz
Maximum power consumption	5.75 kW
Maximum power rating	0.8 W
Minimum fuse protection	1x0.5 A
Power control	Freely adjustable
Weight (incl. accessories/package)	12.4 kg
Surface material	SCHOTT CERAN®
Power supply cable	1.5 m
Dimensions (width x depth x height)	
Cooktop	370x540x47 mm
Pan support	370x540x42 mm
Front high-power burner	600 – 4000 W
Rear normal burner	350 – 1750 W

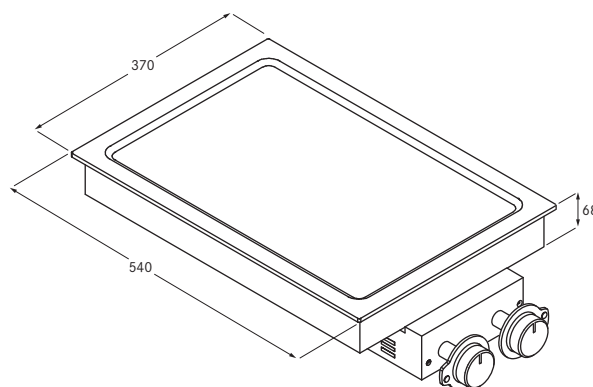
Product description
■ 2-flame gas glass ceramic cooktop with high-power and normal burners
■ Childproofing feature
■ Both burners are childproofed
■ Removable pan support
■ Nozzles for liquid gas 30 mbar/50 mbar must be ordered separately
■ Please note the local regulations and connection requirements applicable to gas cooktops!

Accessories (can be ordered separately)
■ PGDS30 nozzle set 28-30/37 mbar liquid gas
■ PGDS50 nozzle set 50 mbar liquid gas
■ PGKV10 100 cm cable extension
■ Air baffle PGLB0

Scope of delivery
■ PG 11 gas glass ceramic cooktop
■ PGSK2 control box (power level sleeve, control knob, adjustment plates)
■ Mounting rail and straps
■ Cast iron pan support
■ Air baffle
■ Nozzle set, 20 mbar, liquid gas
■ Flexible connection tube (gas) for simple installation
■ Glass ceramic scraper
■ Drilling template
■ Height adjustment plate set
■ Operating and installation instructions
■ Power supply cable



BORA Tepan stainless steel grill with 2 cooking zones



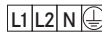
Technical data

Supply voltage	380 – 415 V 2N
Frequency	50 Hz
Maximum power consumption	4.8 kW
Maximum power rating	4.8 kW
Minimum fuse protection	2 x 16 A
Power control	1 – 9, freely adjustable
Weight (incl. accessories/package)	19.7 kg
Surface material	Stainless steel, brushed
Temperature control range	60 – 250 °C
Power supply cable	1.5 m
Dimensions (width x depth x height)	370 x 540 x 68 mm
Front cooking surface	2400 W
300 x 235 mm	
Rear cooking surface	2400 W
300 x 235 mm	

Product description

- Full-surface Tepan stainless steel grill with two cooking zones
- 6 mm deep-drawn and brushed stainless steel with rounded inner corners for simple cleaning
- Temperature of the two cooking zones can be freely and separately controlled
- Childproofing feature

Scope of delivery

- PT 11 Tepan stainless steel grill
- PTSK2 control box with electronic controls (power level sleeve, control knob, adjustment plates)
- Mounting rail and straps
- PTTs1 Tepan scraper
- Drilling template
- Height adjustment plate set
- Operating and installation instructions
- Power supply cable 

Accessories

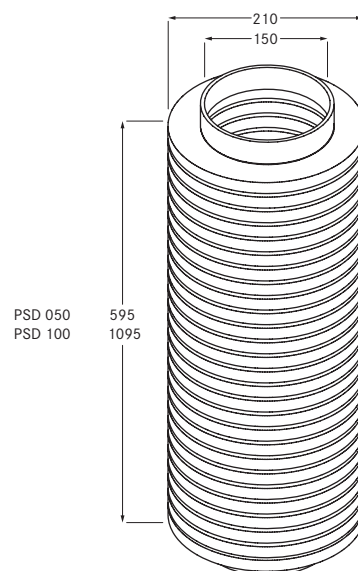
(can be ordered separately)

- PTKV10 100 cm cable extension

PSD050/PSD100



BORA silencers



Technical data

PSD050 duct silencer

Dimensions	
External duct	Ø 210 mm
Internal duct	Ø 150 mm
Overall length	595 mm
Insulating layer thickness	25 mm

PSD100 duct silencer

Dimensions	
External duct	Ø 210 mm
Internal duct	Ø 150 mm
Overall length	1095 mm
Insulating layer thickness	25 mm

Product description

For acoustically decoupling the components

Reduction of the sound pressure level by approx. 10 dB(A)

PL540E

Professional PL540E

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 kW/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 m³/h

61591

Air flow level 9 maximal (Q_{Max})

626 m³/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 m³/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

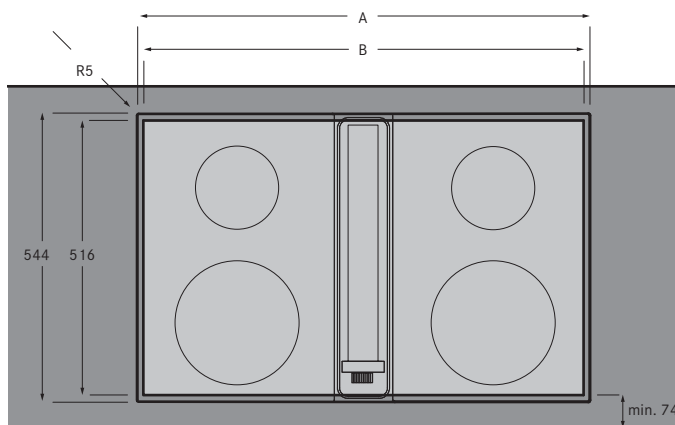
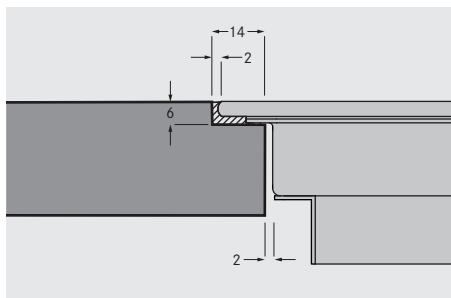
61591

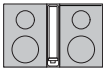
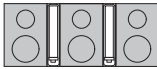
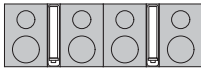
* This specification is not applicable for this product.

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

Cut-out dimensions

BORA Professional – flush installation



Cooktops/cooktop extractor		A/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

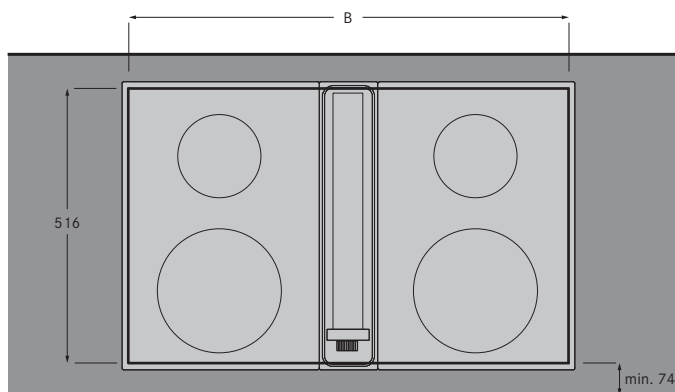
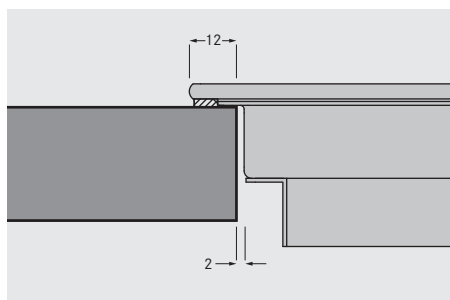
Clearance of one millimetre should be planned between the built-in appliances.

Important planning instructions:

- When using the PIW1 induction glass ceramic wok, the groove dimensions in case of flush installation must be increased to 7 mm!

- With regard to the suitability of the worktop, the instructions from the worktop manufacturer must be complied with. For example, worktop cut-outs must be sealed against moisture by suitable means, or if necessary equipped with a thermal insulator (e.g. in case of Corian or HiMacs plates).

BORA Professional – surface mounting



Cooktops/cooktop extractor		B in mm
	1/0	346
	2/0	717
	3/0	1088
	1/1	457
	2/1	828
	3/2	1310
	4/2	1681

Clearance of one millimetre should be planned between the built-in appliances.

- With regard to the suitability of the worktop, the instructions from the worktop manufacturer must be complied with. For example, worktop cut-outs must be sealed against moisture by suitable means, or if necessary equipped with a suitable thermal insulator (e.g. for Corian- or HiMacs plates).

Exhaust air and recirculation solutions

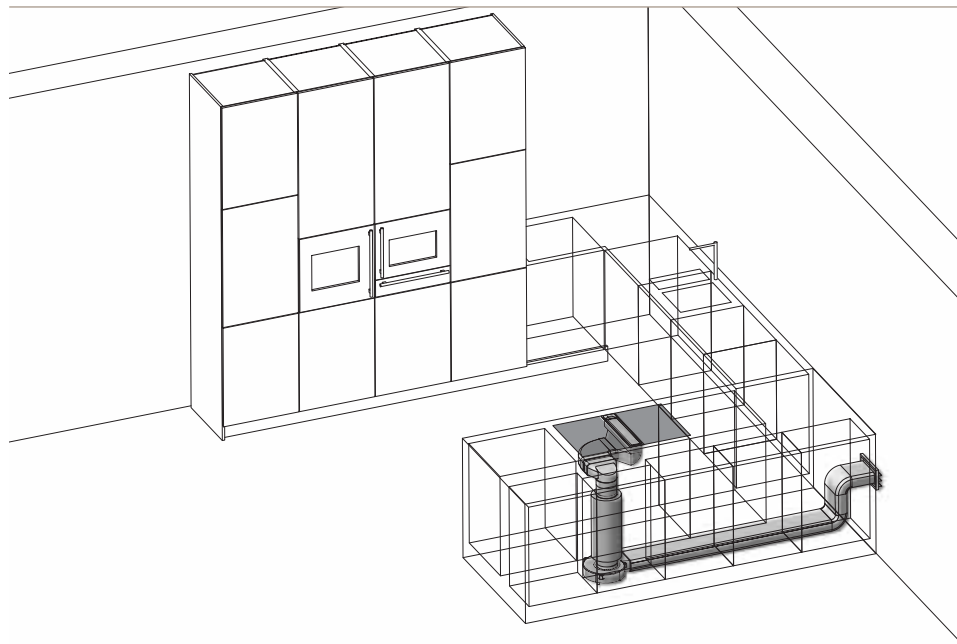
Efficient performance in any room



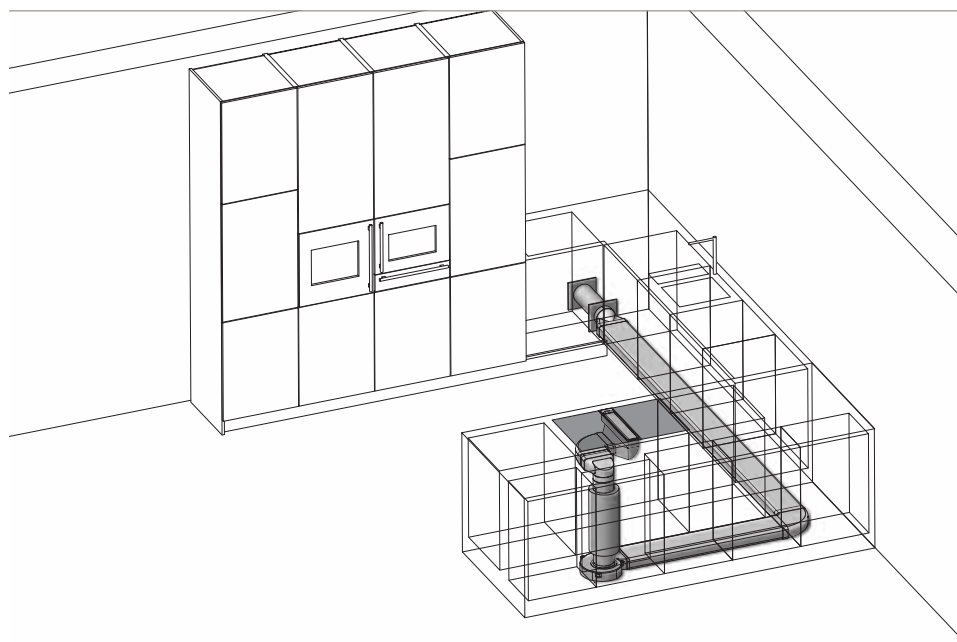
The focus of the high-performance BORA system is on flexibility. A professional solution is available for almost every scenario. In the example shown, an exhaust air version is used, with the cooking vapours fed to the closest possible exterior wall. In addition to the exhaust air solution, BORA also offers a recirculation solution. This enables you to deal with all room situations.



BORA ULS25 plinth fan



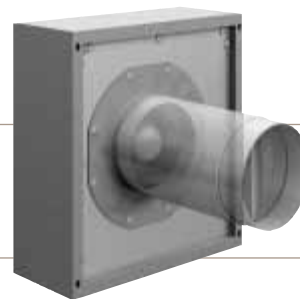
Only 10 cm high: here, the plinth fan feeds the exhaust air directly to the exterior wall via a shallow duct.



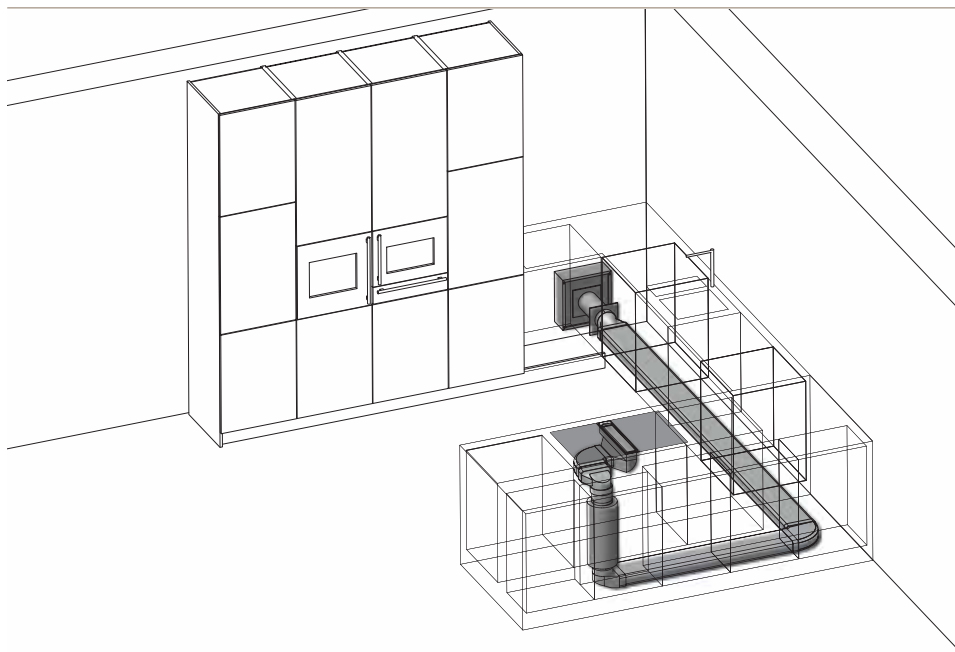
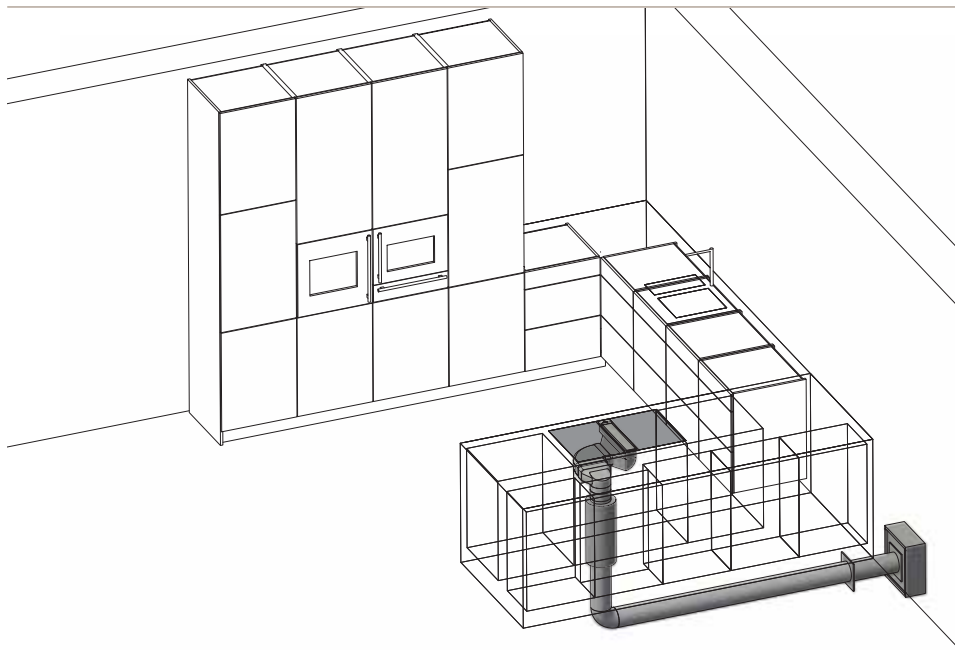
With a shallow duct in the plinth area, the exhaust air can also be fed through the entire kitchen.

Please note: the maximum length of the exhaust duct with one fan module is 6m. Greater distances of up to 15m are possible if combining two motors.

BORA ULA25 external wall fan

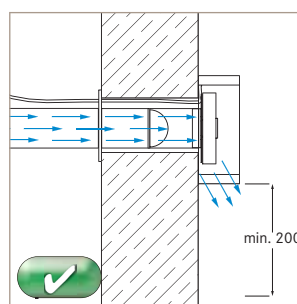


The exhaust air is fed outside through the basement using the external wall fan, for example in a light shaft.

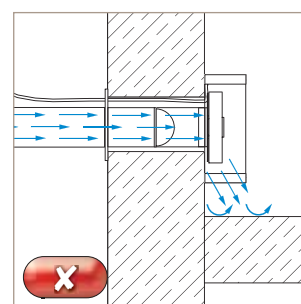


Exhaust ducting via a shallow duct in the plinth.

Please note: the external wall fans must be able to expel air downwards freely at least 200 mm.

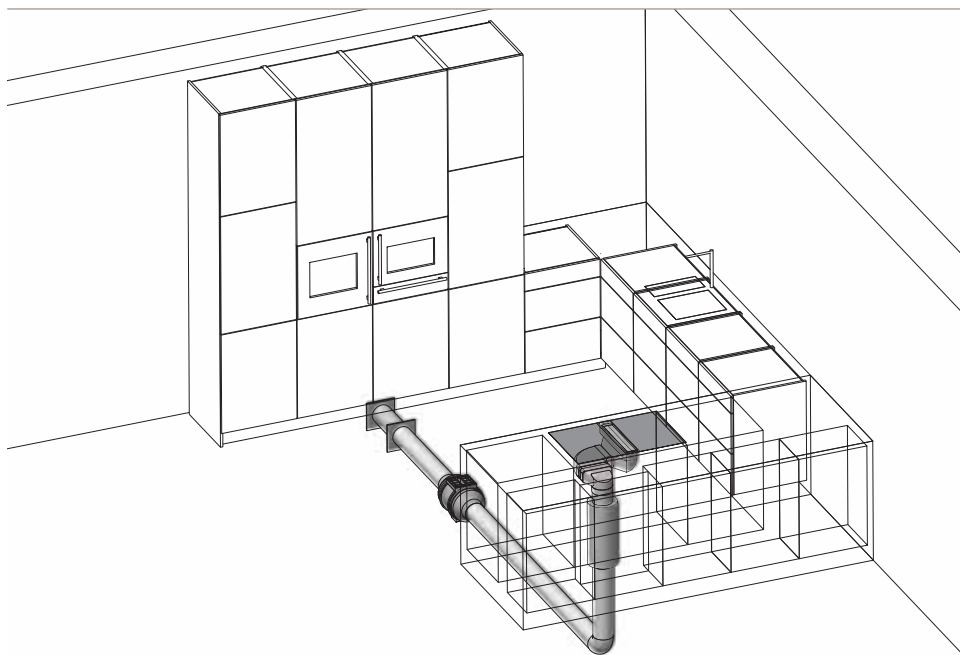


Optimally positioned external wall fan

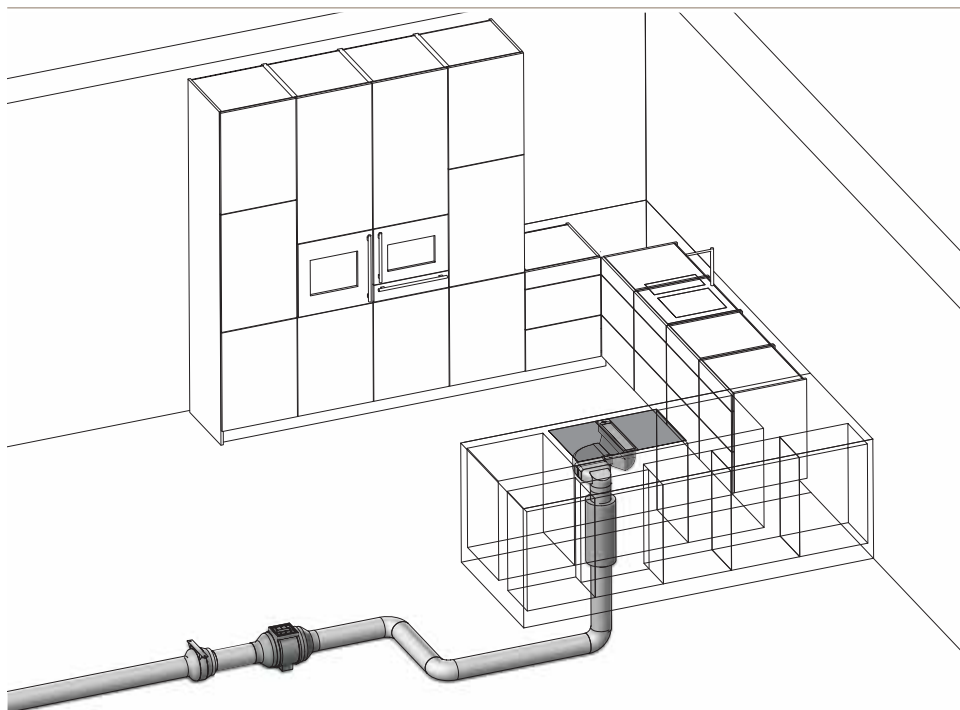


Unfavourably positioned external wall fan

BORA ULI25 and ULIE20 duct fans



Exhaust ducting with a round duct on the basement ceiling with a BORA ULI25 duct fan.



In the case of a very long exhaust route (over 6m) or many bends in the duct, the additional fan ULIE20 can be added. In this example, the ULIE20 is combined with ULI25 duct fan.

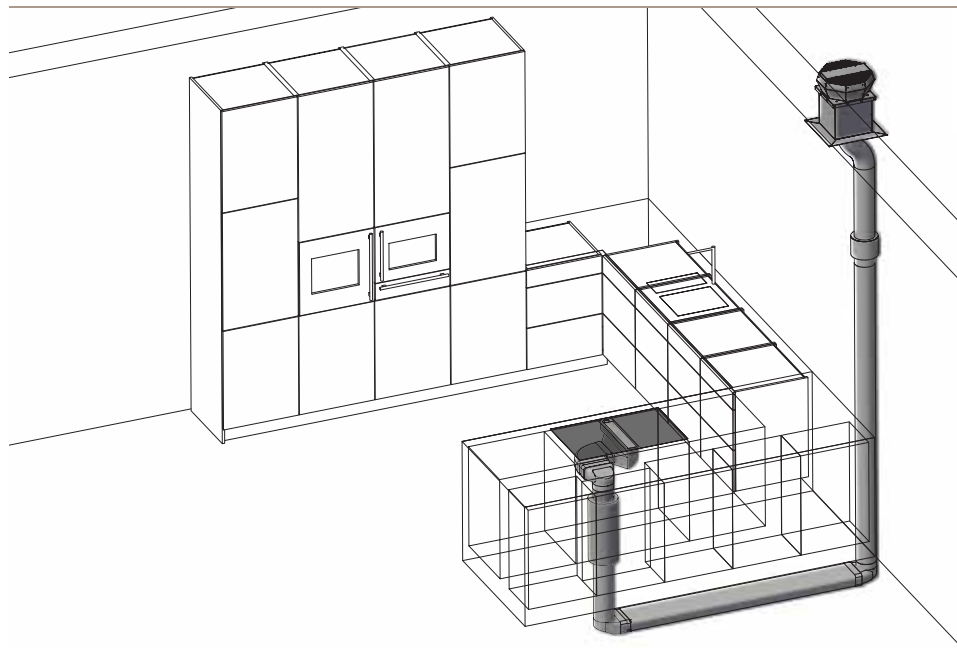
Please note: 500mm of straight duct is required before, in-between and after the motors.

Please note: the maximum length of the exhaust duct with one fan module is 6m. Greater distances are possible if combining two motors.

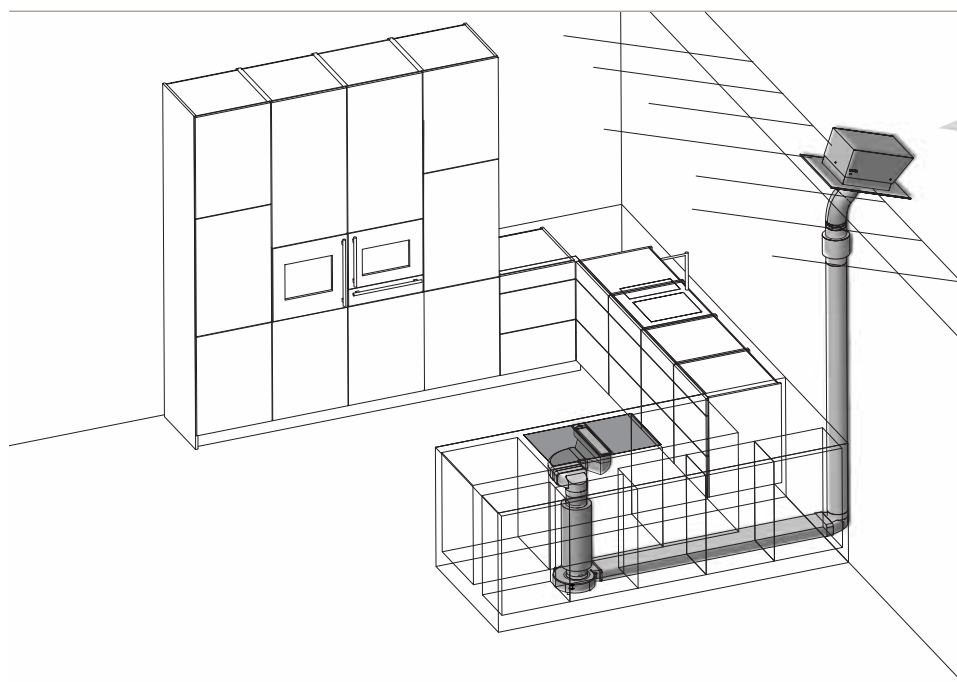
BORA ULF25 and ULZ25 roof fans

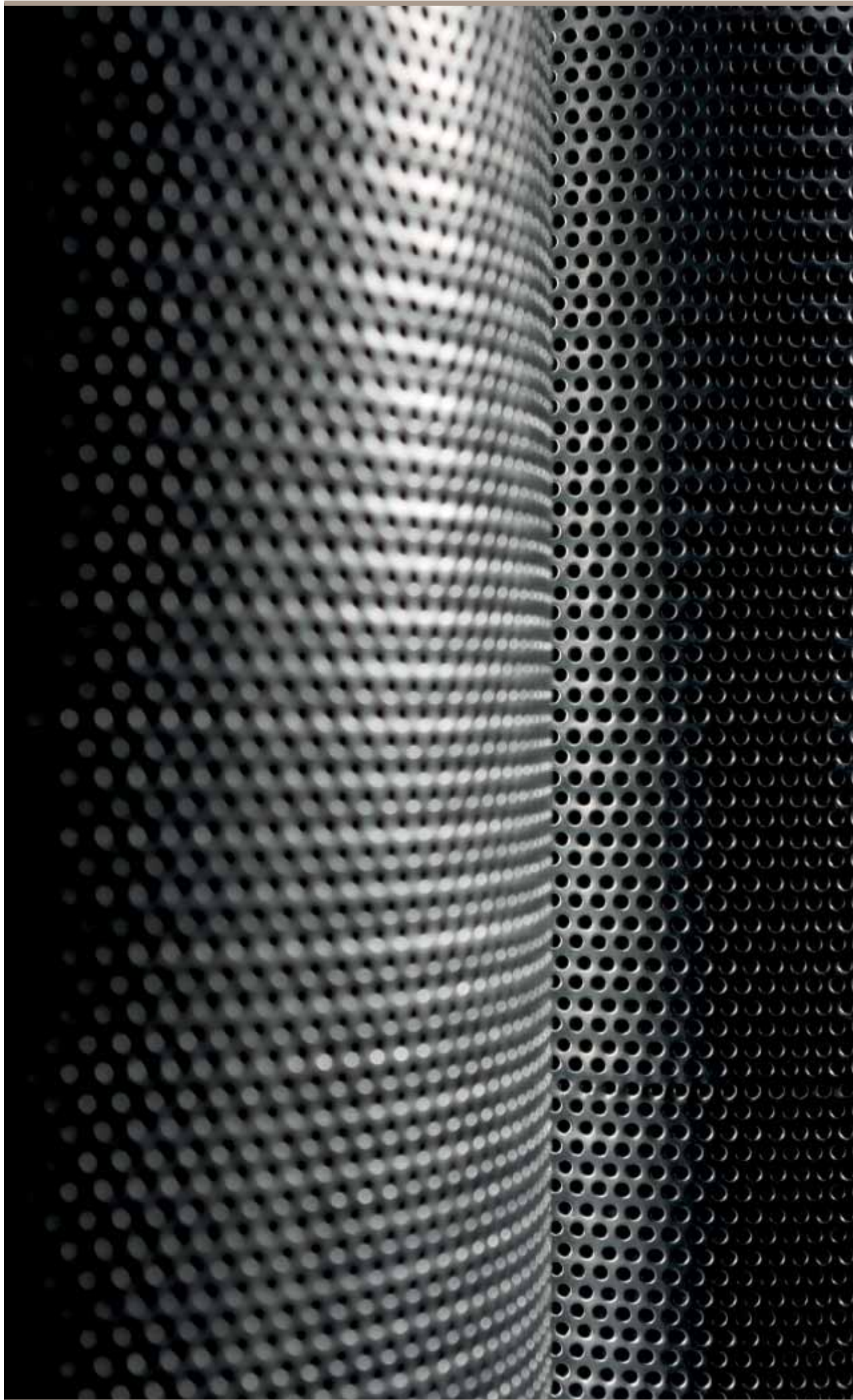


From the cooktop extractor via a shallow duct on the basement ceiling and a riser cable integrated into the wall to the BORA ULF25 flat roof fan. A condensation separator must be installed.



The BORA ULZ25 tiled roof fan was developed specially for tiled roofs that slope at a gradient of at least 10°. The vertical riser cable is integrated into the wall. This fan can also be combined with a second fan module if necessary (here with the BORA ULS25 plinth fan). A condensation separator must be installed.

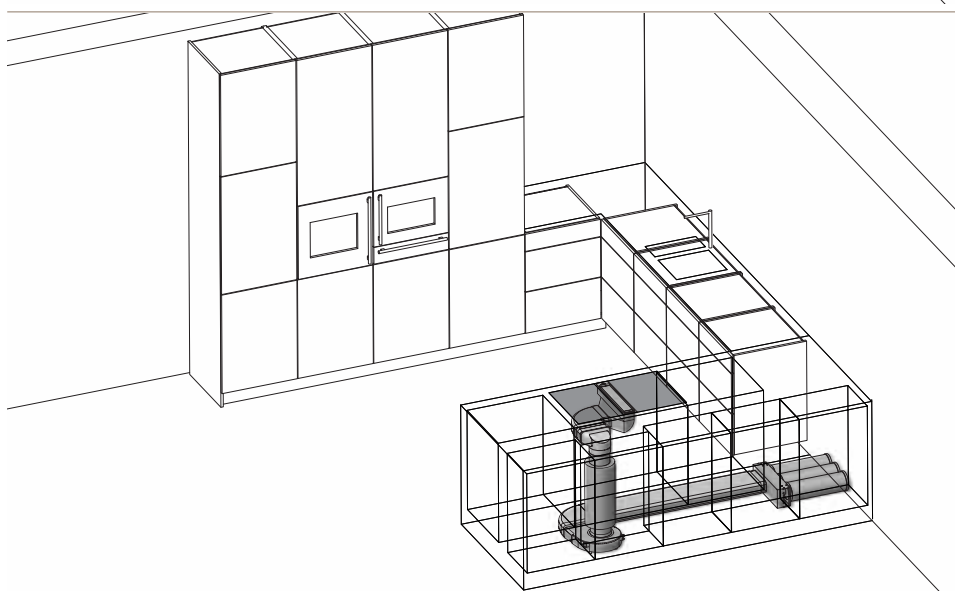
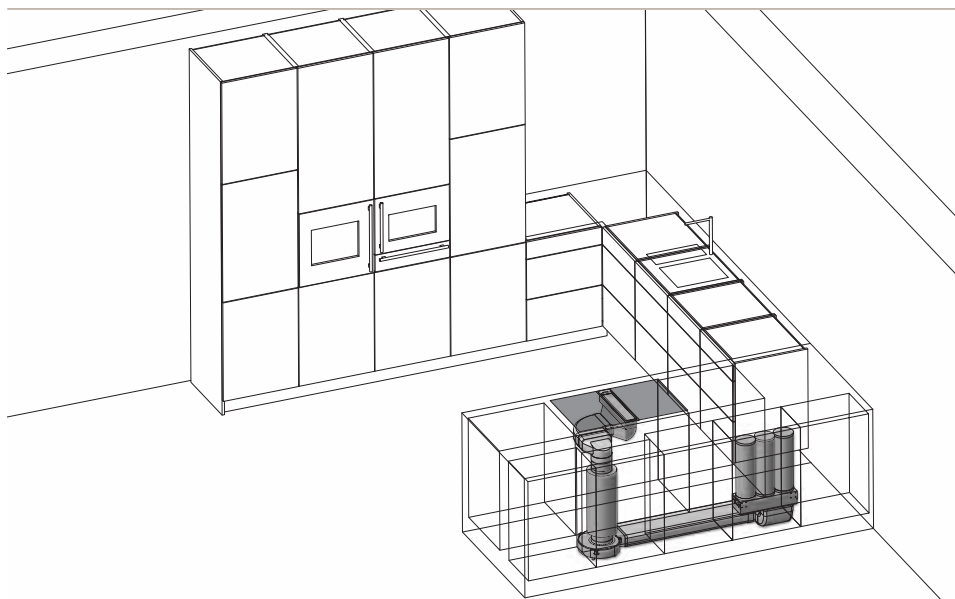




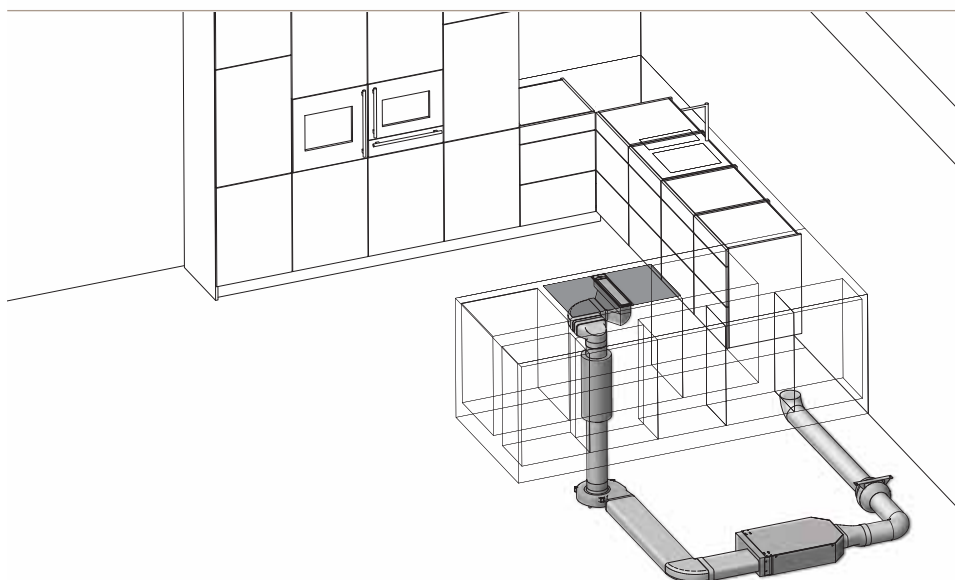
BORA UUE3 recirculation unit



The traditional vertical installation of the recirculation unit.



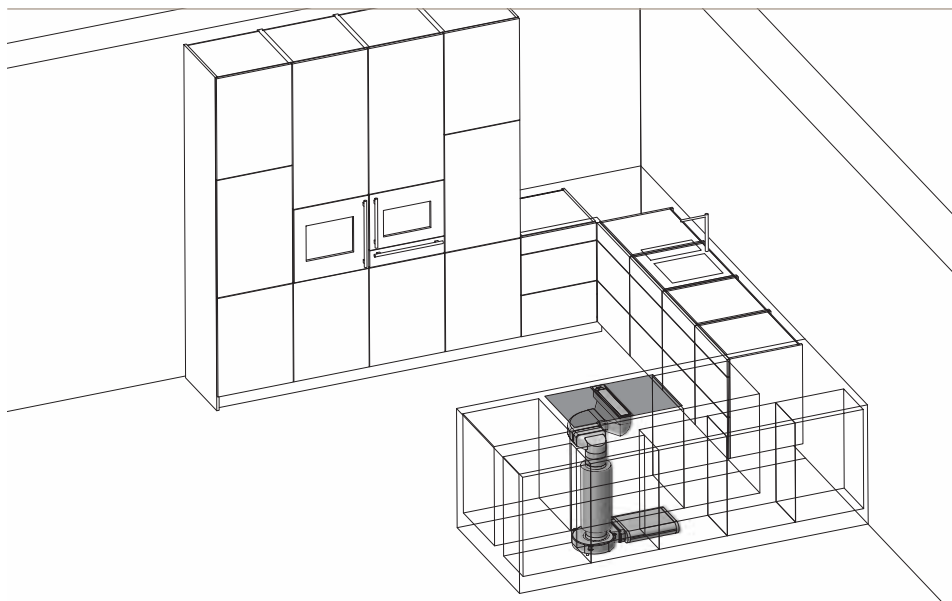
If space is restricted, the recirculation unit can also be attached flat in the plinth. In this case, ensure a plinth height of at least 160 mm.



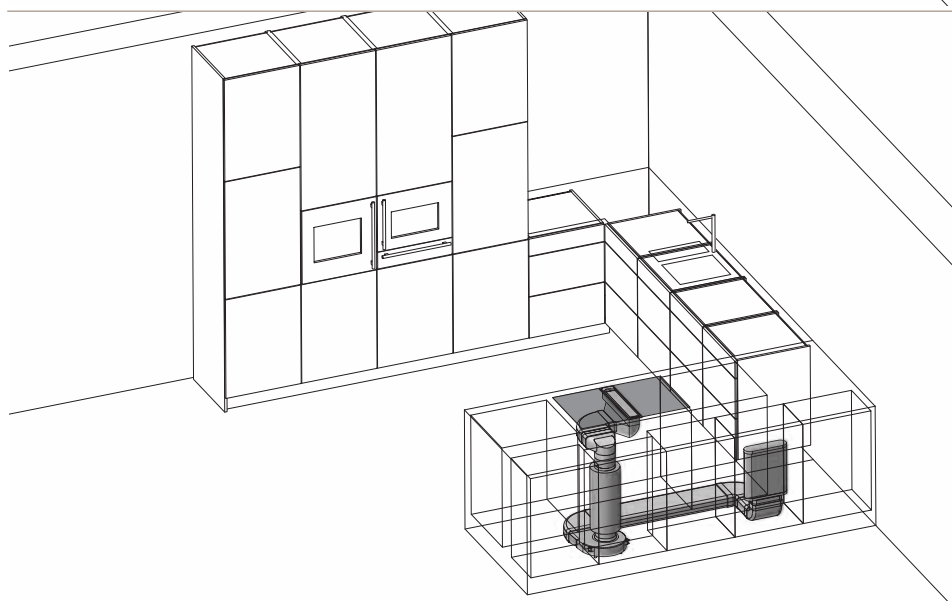
To avoid losing the warm air to adjacent spaces, please put a BORA air recirculation hood over the recirculation unit. In this example, the air from the cellar is fed back into the kitchen by the two fans required.

Please position the recirculation unit in such a way that it is easily accessible for replacing the activated charcoal filter. Cleaned air must return to the room from within the furniture by means of lowered plinth, ventilation grille etc. Ensure a minimum return flow aperture of 500 cm².

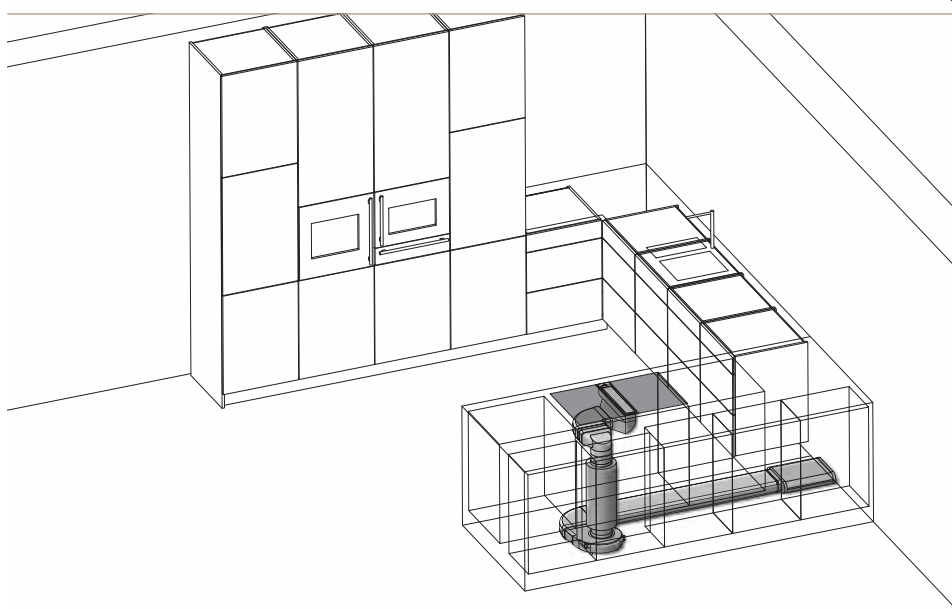
BORA UUE1 recirculation unit



Space-saving and compact:
the recirculation unit is attached
directly to the plinth fan.



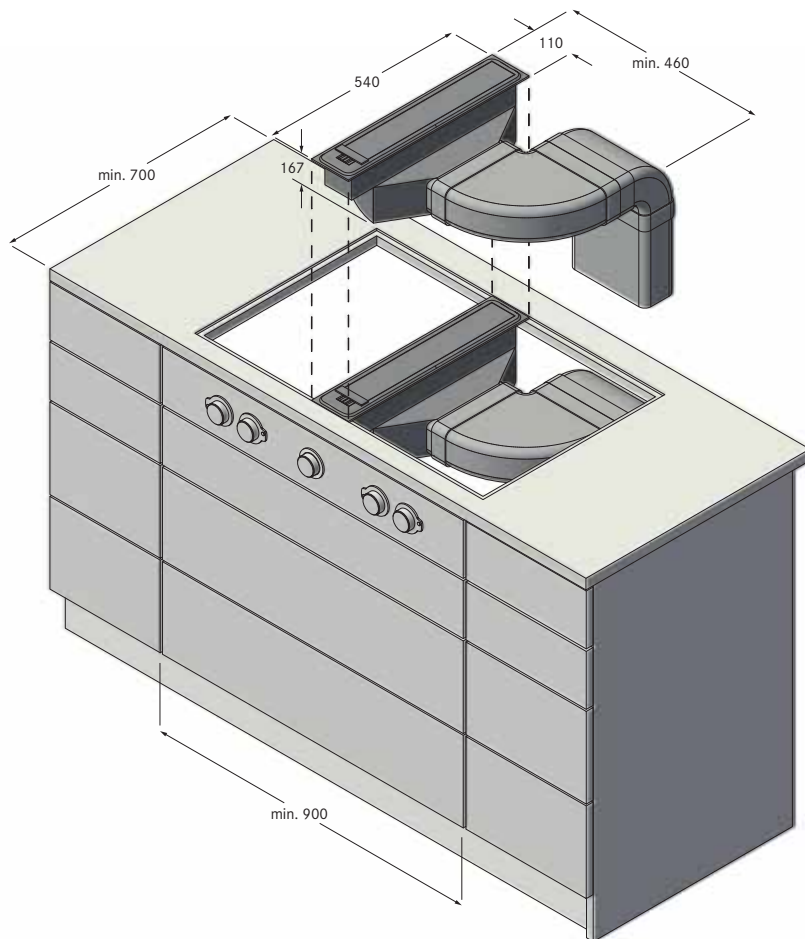
If preferable, the UUE1 can be
installed vertically in a convenient
space.



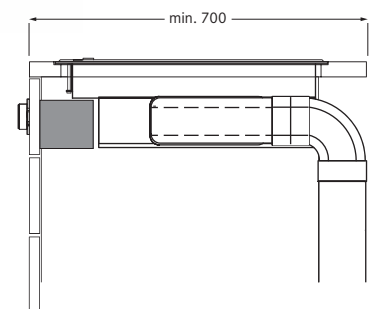
Here the UUE1 is routed to an
accessible position and installed
horizontally; the possibilities are
endless.

Installation dimensions

2 cooktops | 1 cooktop extractor

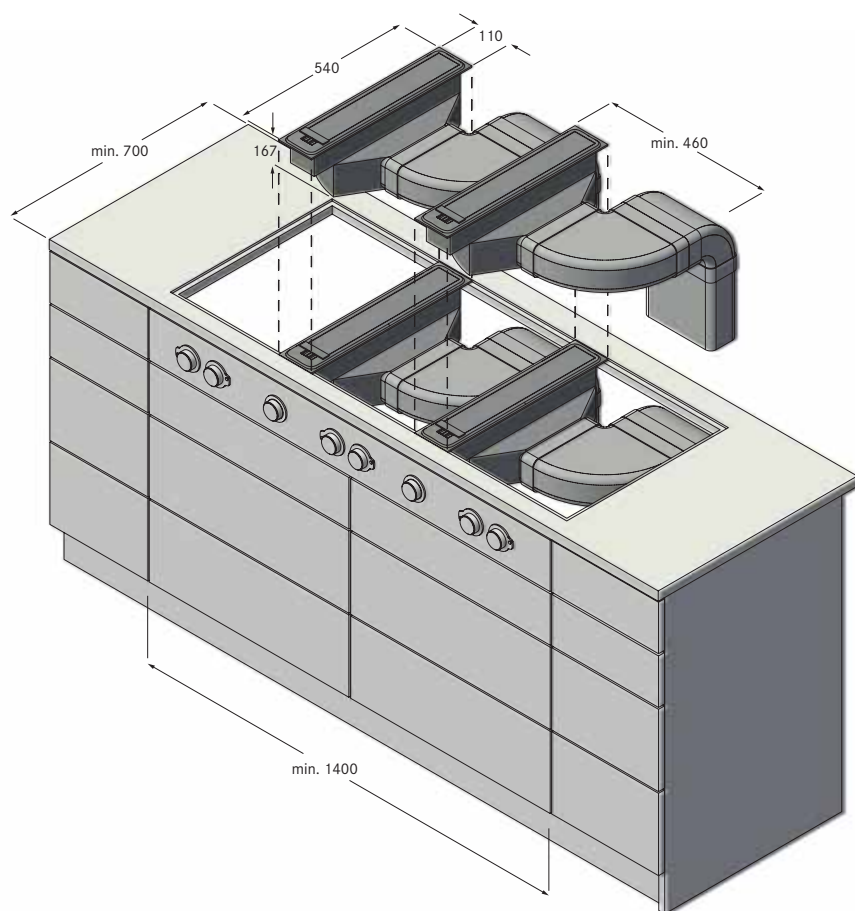


Two cooktops with an extraction system installed in the middle. The minimum dimensions specified relate to the combination of the PL540E cooktop extractor and Naber shallow ducts. If using a silencer and a ULS25 plinth fan, please observe the installation dimensions in the following section.

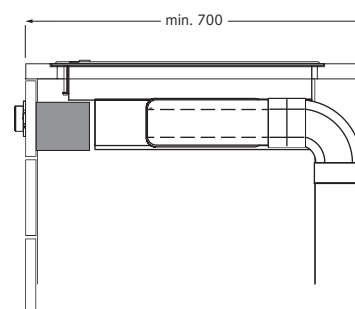


To optimally integrate the BORA system into your kitchen, please adhere to the following installation dimensions. All BORA Professional cooktops can be combined as desired. The ability to flexibly install the exhaust fitting on either the left or the right enables you to deal with any construction situation during planning and installation.

3 cooktops | 2 cooktop extractors

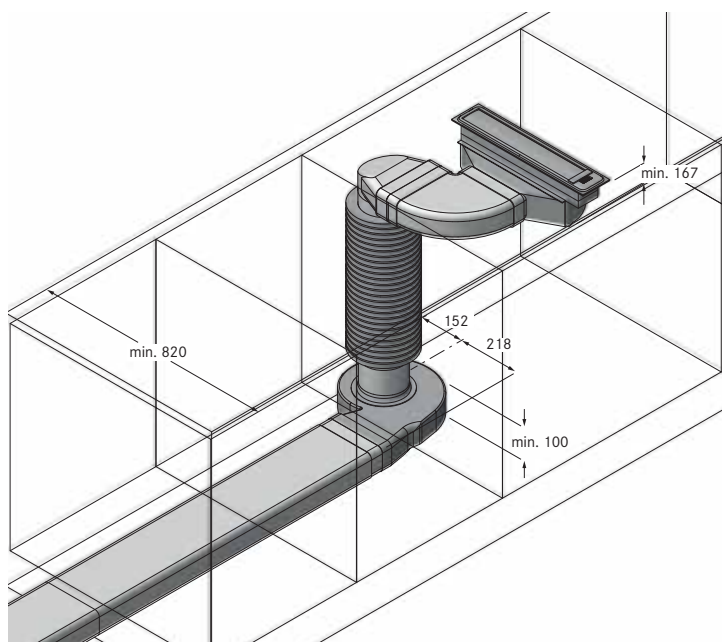


Solution with three cooktops and two extractor systems between them. When combining more than two cooktops, further extractors must be used accordingly. Please note that a separate fan and separate exhaust ducting are necessary for each cooktop extractor. The minimum dimensions specified relate to the combination of the PL540E cooktop extractor and Naber shallow ducts. If using a silencer and a ULS25 plinth fan, please observe the installation dimensions in the following section.

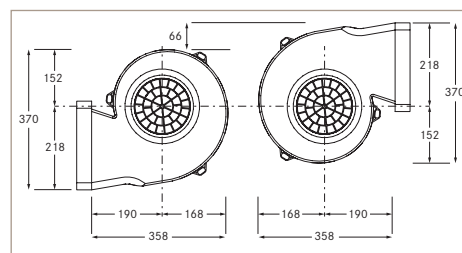


Standard arrangements

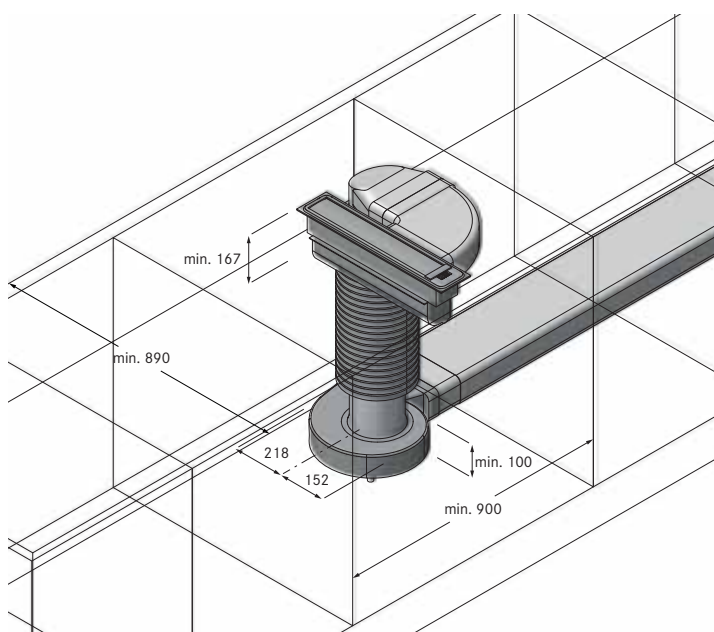
Standard exhaust air arrangements



Exhaust ducting in the plinth area with a plinth fan blowing out to the left through shallow ducts. Depth of at least 820 mm.



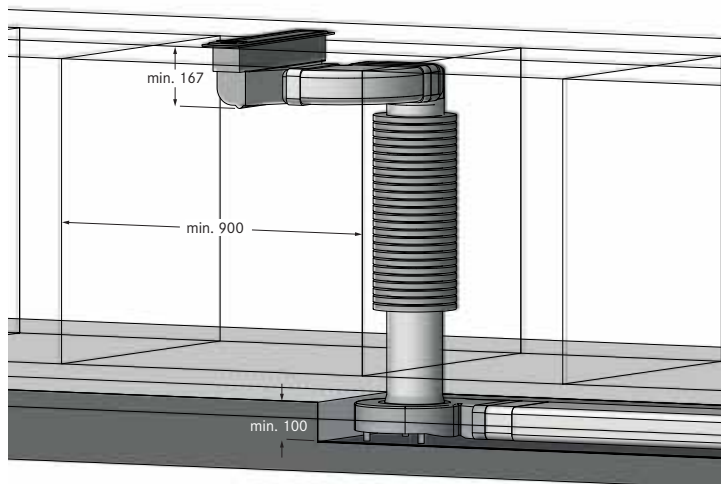
The plinth fan can also be installed to blow out to the right. In this case, you will need a worktop that is 70 mm deeper.



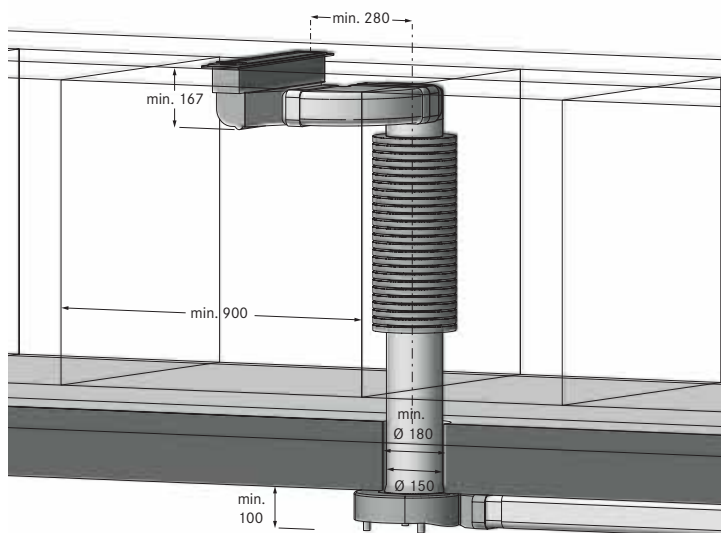
Exhaust ducting in the plinth area with plinth fan on the right blowing out via shallow ducts. Depth of at least 890 mm.

The airflow components offers a range of installation options. This enables you to realise the optimal solution for each construction situation. Please note: the airflow route depends on the space available below and next to the hob, as well as on the depth of the worktop and the kitchen cupboards. With just a few changes, these standard arrangements can be integrated into almost any kitchen.

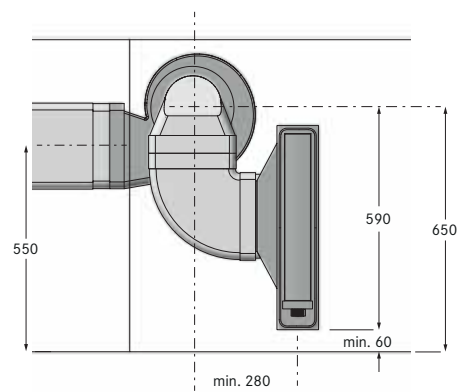
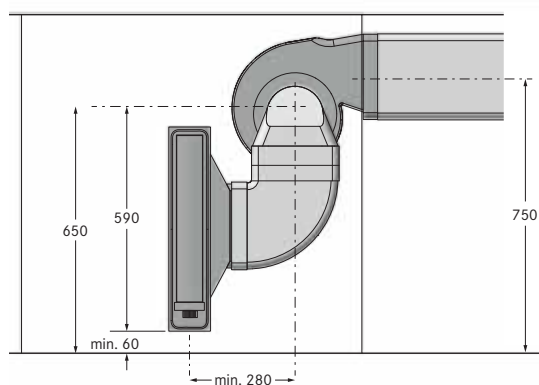
Standard exhaust air arrangements



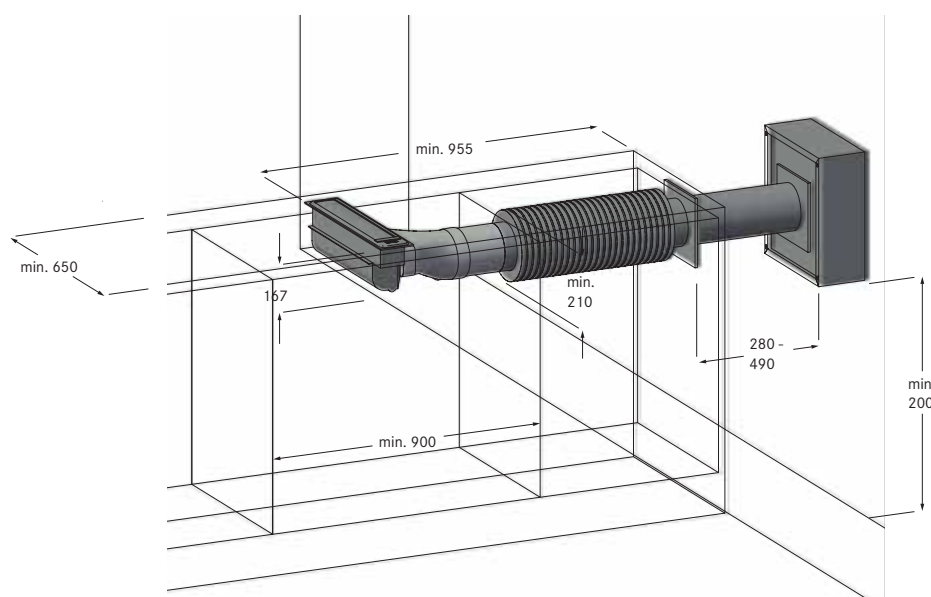
In this example, the plinth fan and subsequent shallow ducts were already integrated in either the floor screed or the unfinished floor. Note: choose suitable floor reinforcements to protect the shallow ducts. Take into account the required height space of 100 mm.



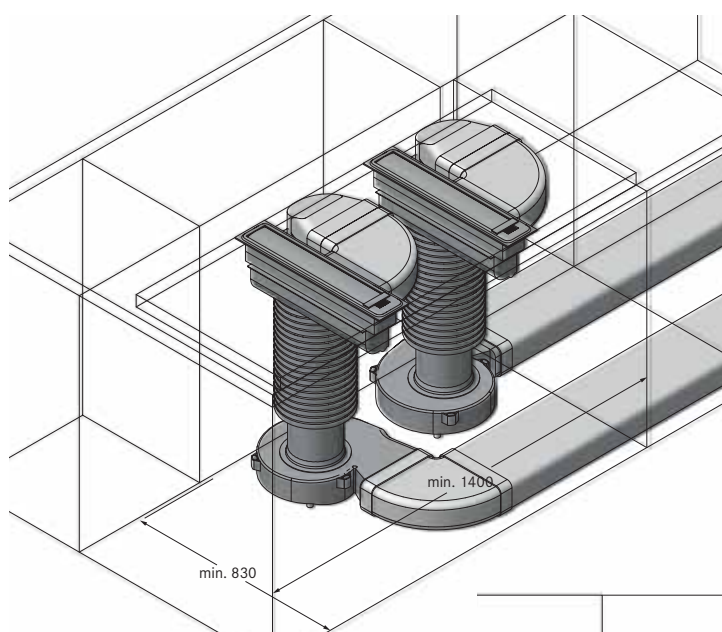
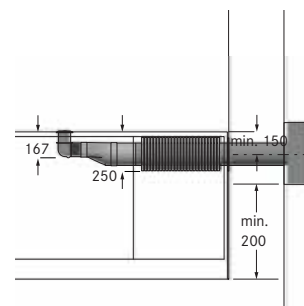
An alternative is exhaust ducting on the basement ceiling. For this, the plinth fan is simply mounted on the basement ceiling.



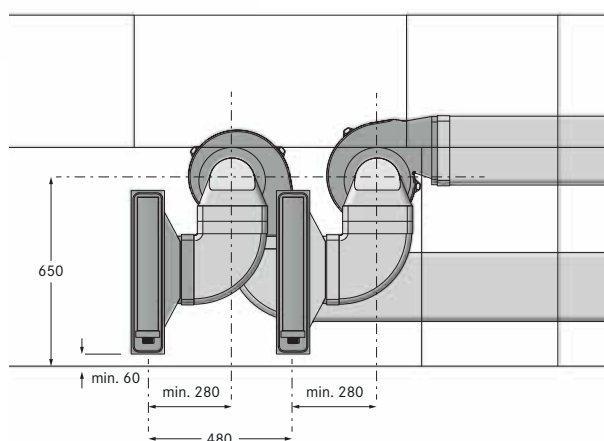
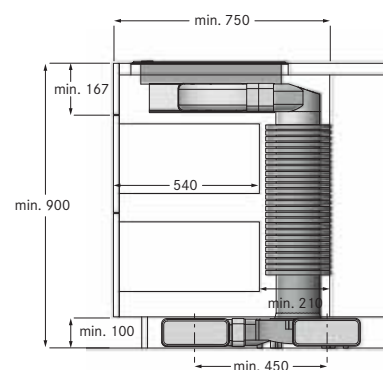
Standard exhaust air arrangements



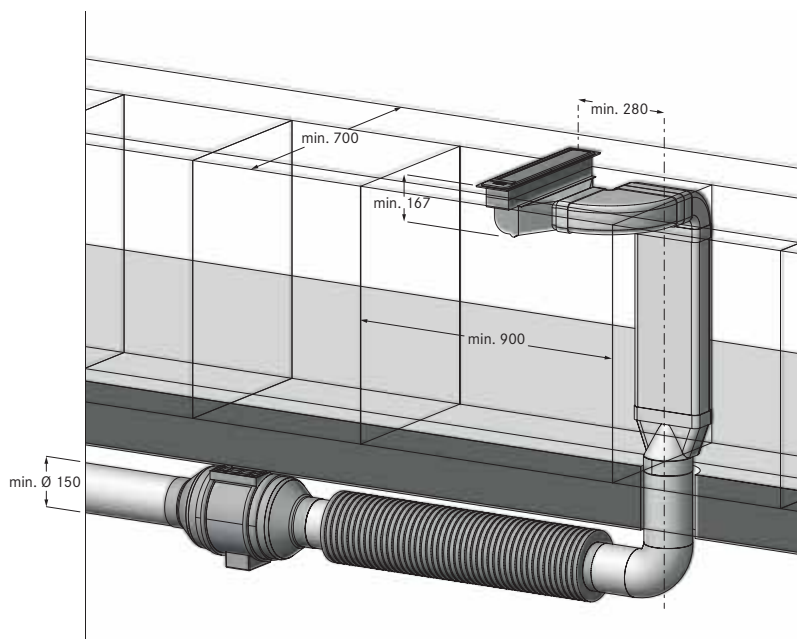
This horizontal solution is particularly suitable if the worktop and cupboards are not very deep.



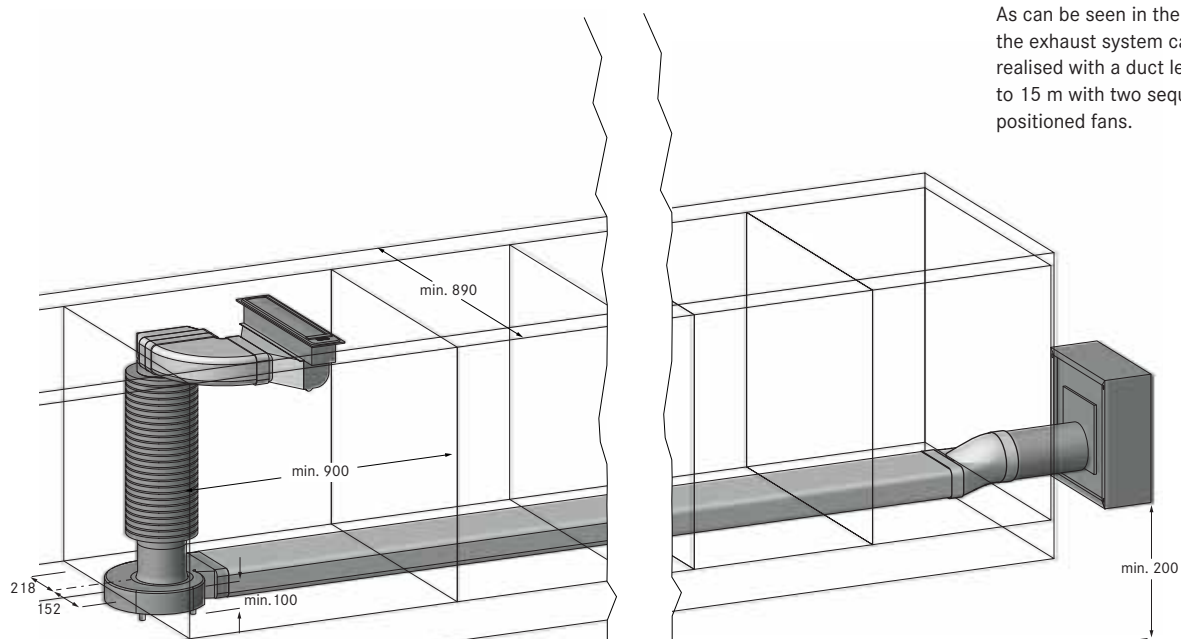
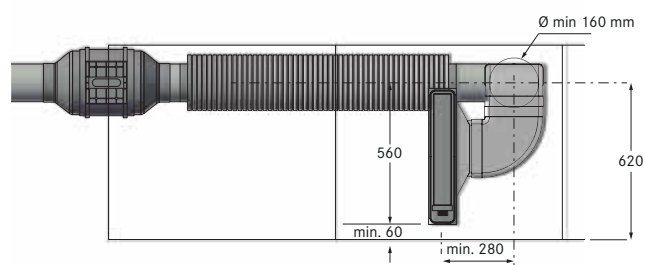
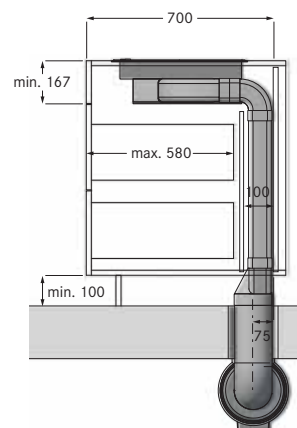
This example shows three cooktops with two cooktop extractors and the corresponding two plinth fans. Please ensure that the plinth fans do not collide with each other. Depending on the positioning of the silencer, the floor units can remain in place.



Standard exhaust air arrangements

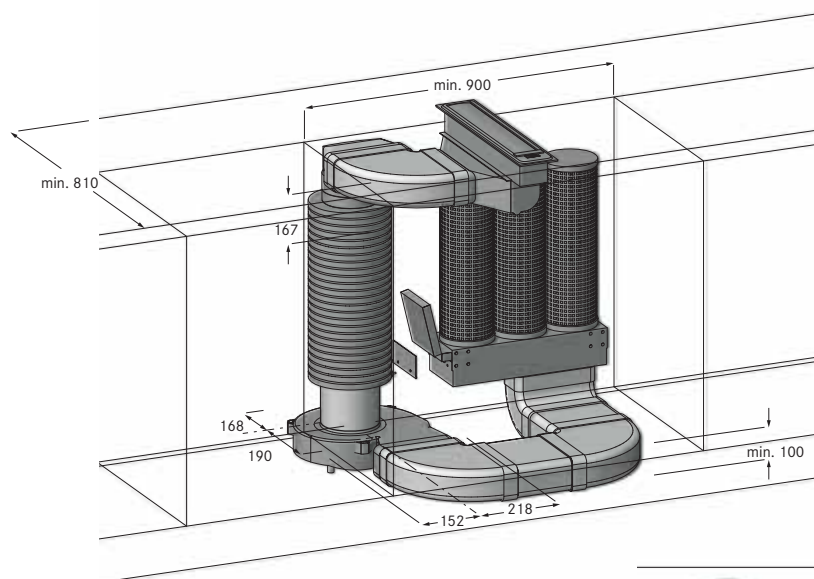


As a result of the low installation depth, the exhaust ducting can be installed in a space-saving manner using a shallow duct behind the floor cabinet. For this reason, the silencer was installed on the basement ceiling.

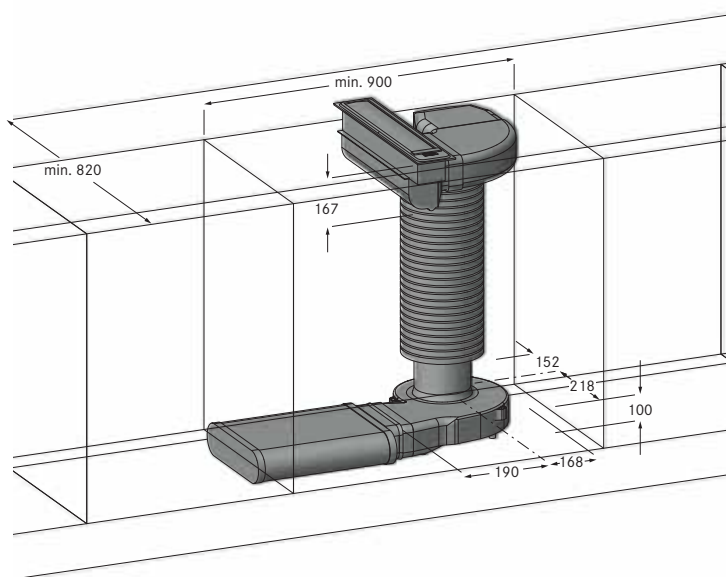
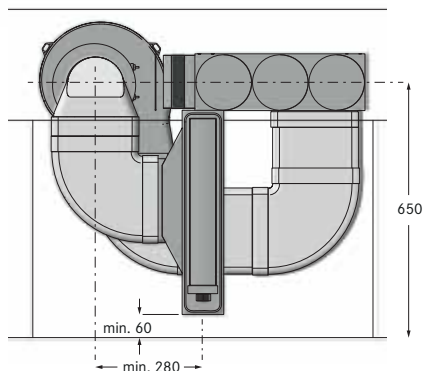
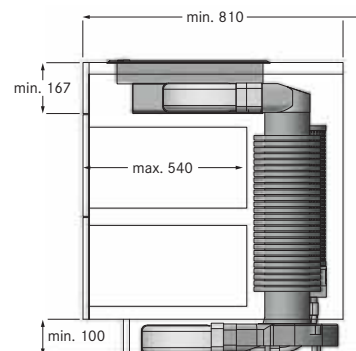


As can be seen in the example, the exhaust system can also be realised with a duct length of up to 15 m with two sequentially positioned fans.

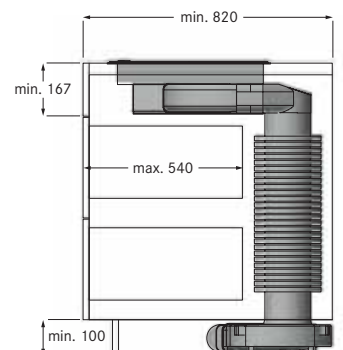
Standard recirculation arrangements



Here, shallow ducts were used to connect the UUE3 recirculation unit to the plinth fan in an upright position behind the floor unit.



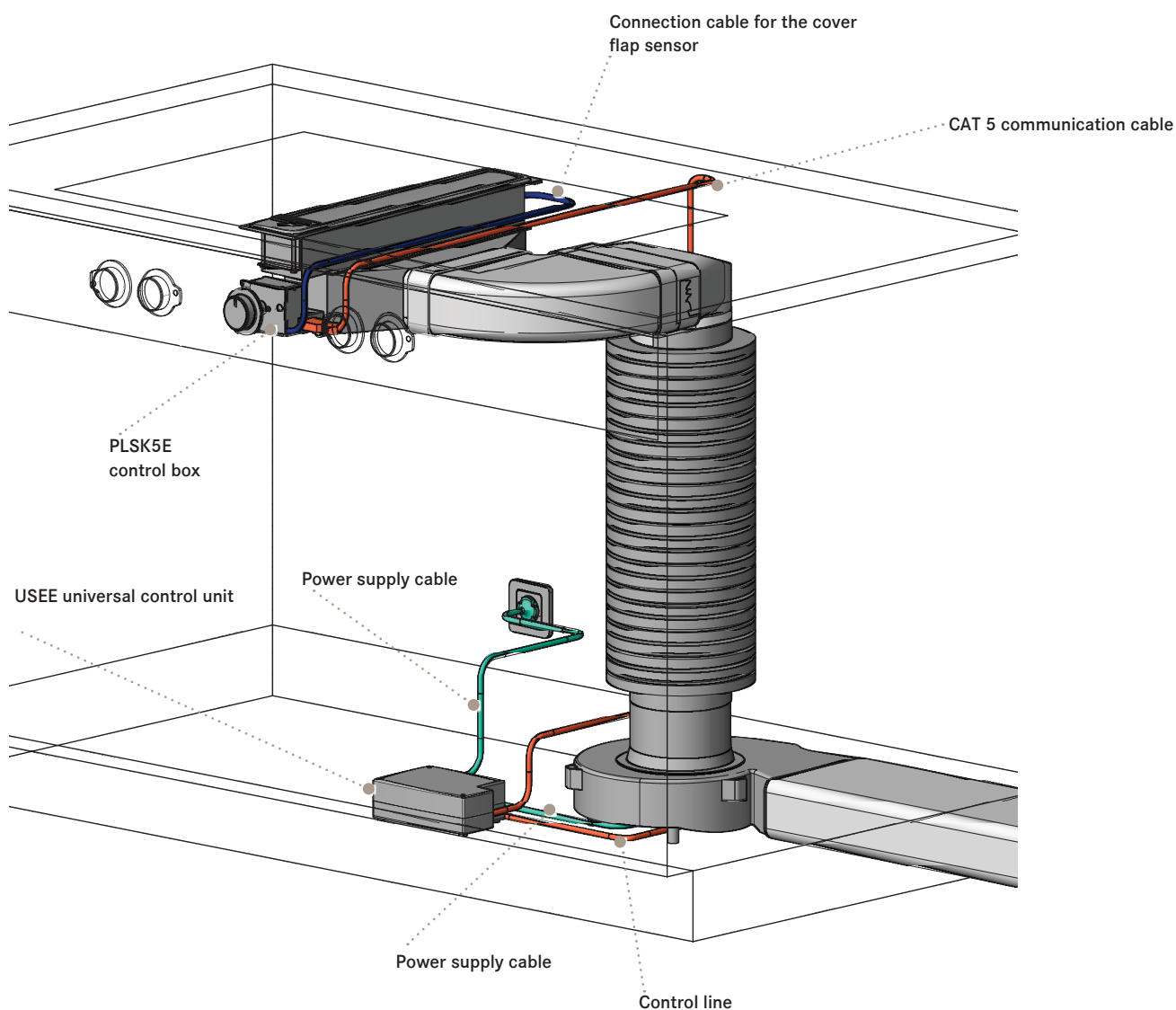
A more compact solution can be seen here with the UUE1 recirculation unit, positioned horizontally in the plinth, directly connected to the plinth fan.



To ensure optimal performance, cleaned air must return to the room from within the furniture by means of lowered plinth, ventilation grille etc. Ensure a minimum return flow aperture of 500 cm².

Overview: components

Overview of the extraction system components



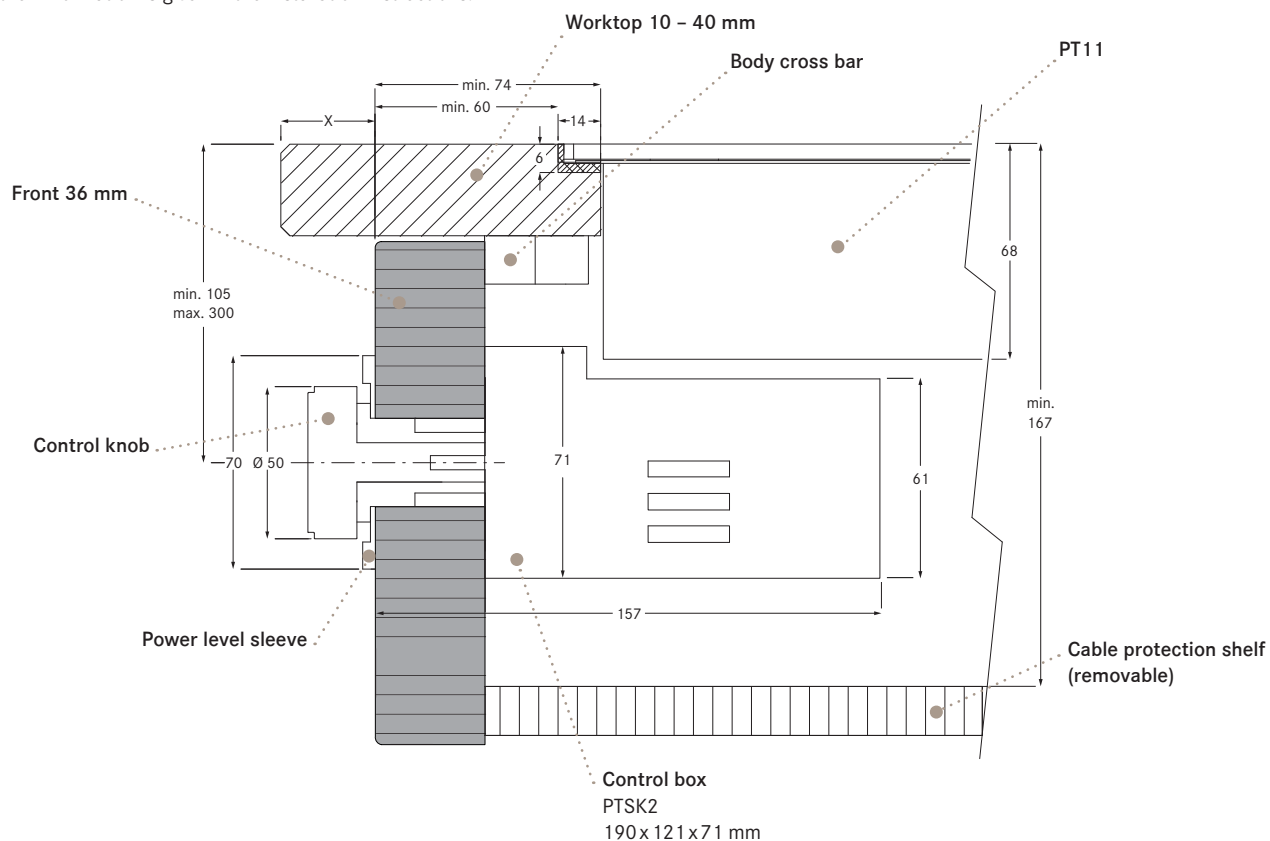
Please note: a maximum of two BORA fan modules can be connected to the USEE control unit. The maximum power consumption of the control unit must not exceed 700 W.

Installation cut-outs

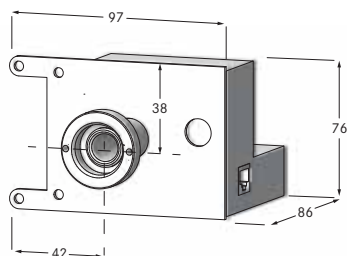
Control box with a 36 mm panel

BORA has designed the control knobs and control box to fit either side of a 36mm panel. So as to be combinable with varying depths of panels, we provide spacers for panels of between 13 - 34mm to achieve 36mm. Further information is given in the installation instructions.

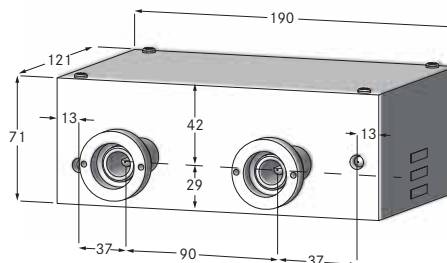
When installing cooktops and cooktop extractors above drawers, a removable protective shelf should be supplied to protect the cables and to enable servicing.



PLSK5E control box
for PL540E cooktop extractor

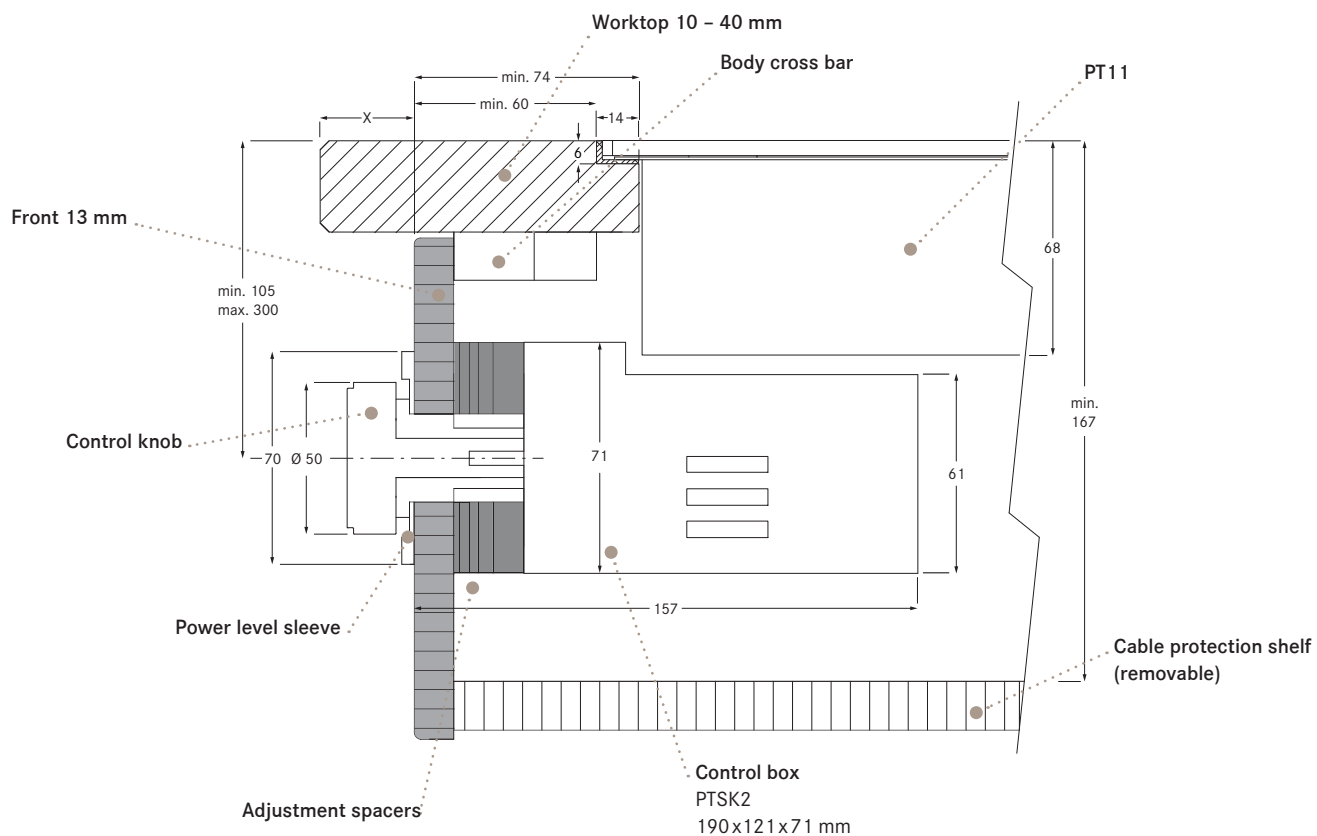


PISK2 control box
for PI11 and PFI11 induction glass ceramic cooktops
PCSK2 control box
for PC32 and PC3B HiLight glass ceramic cooktops
PCHSK2 control box
for PCH2 Hyper glass ceramic cooktop



For perfect planning and installation, we have put together the following minimum dimensions for the different installation situations. Compliance with these dimensions is mandatory.

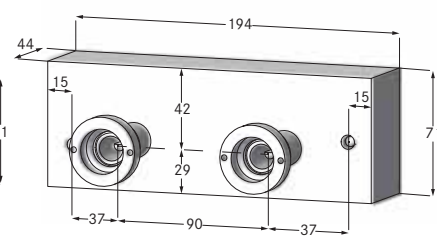
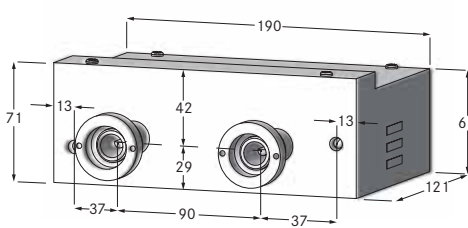
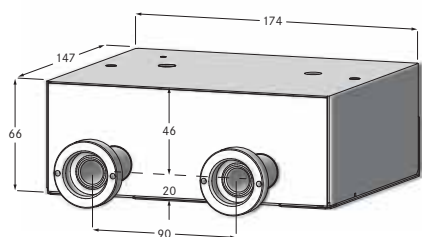
Control box with a 13 mm panel



PGSK2 control box
for PG11 gas glass ceramic cooktop

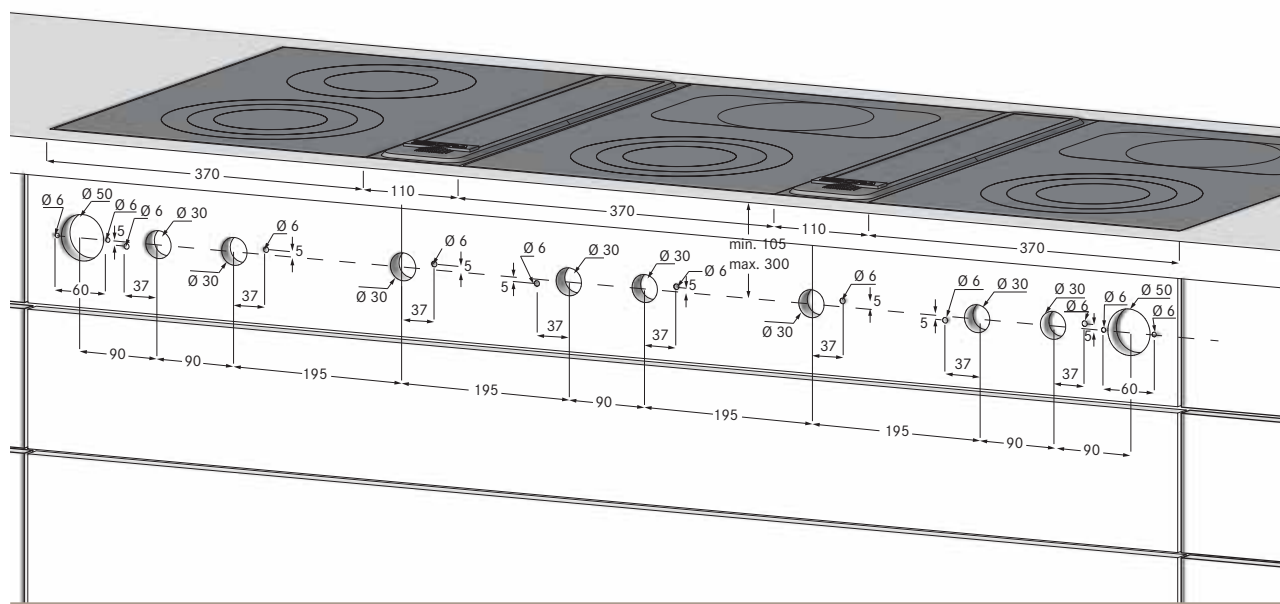
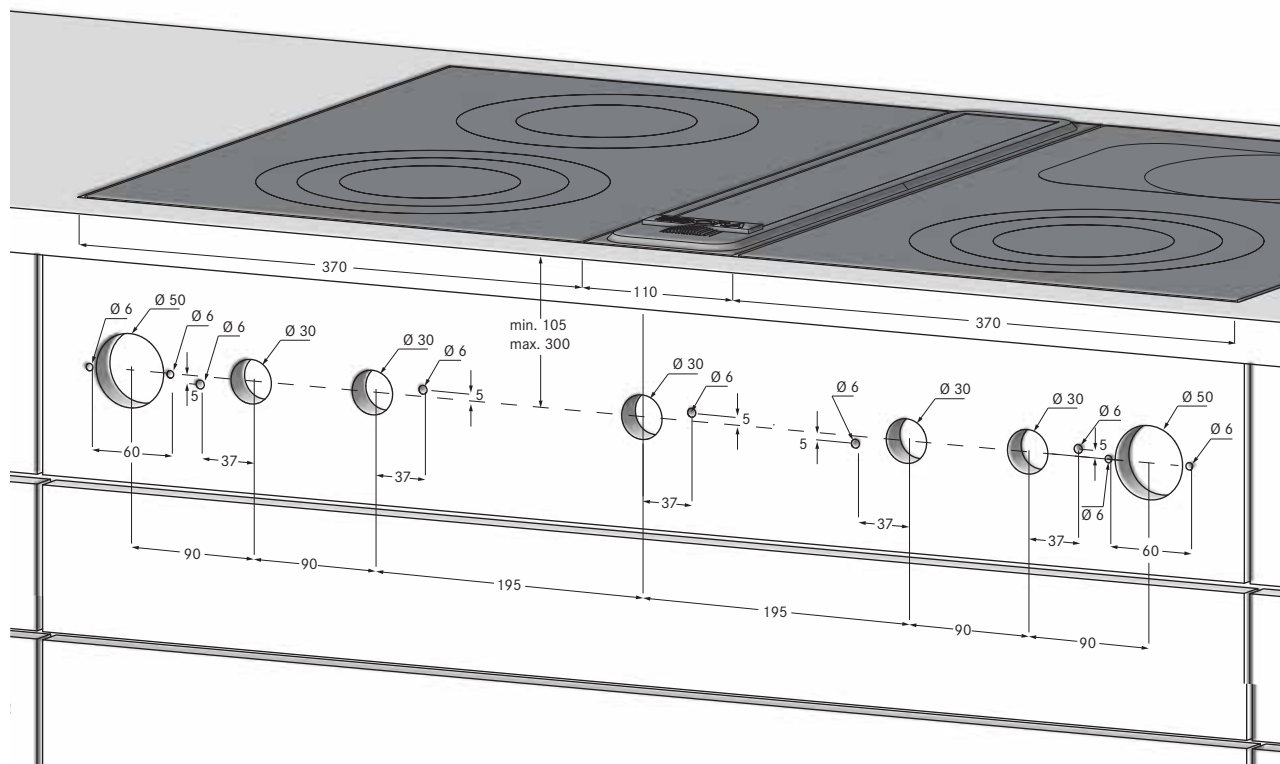
PTSK2 control box
for PT11 Tepan stainless steel grill

PIWSK2 control box
for PIW1 induction glass ceramic wok cooktop



BORA Professional | Bore holes

The drilling templates for the control knobs are included in the scope of delivery. The diagram shows the distances between the bore holes in a standard arrangement.

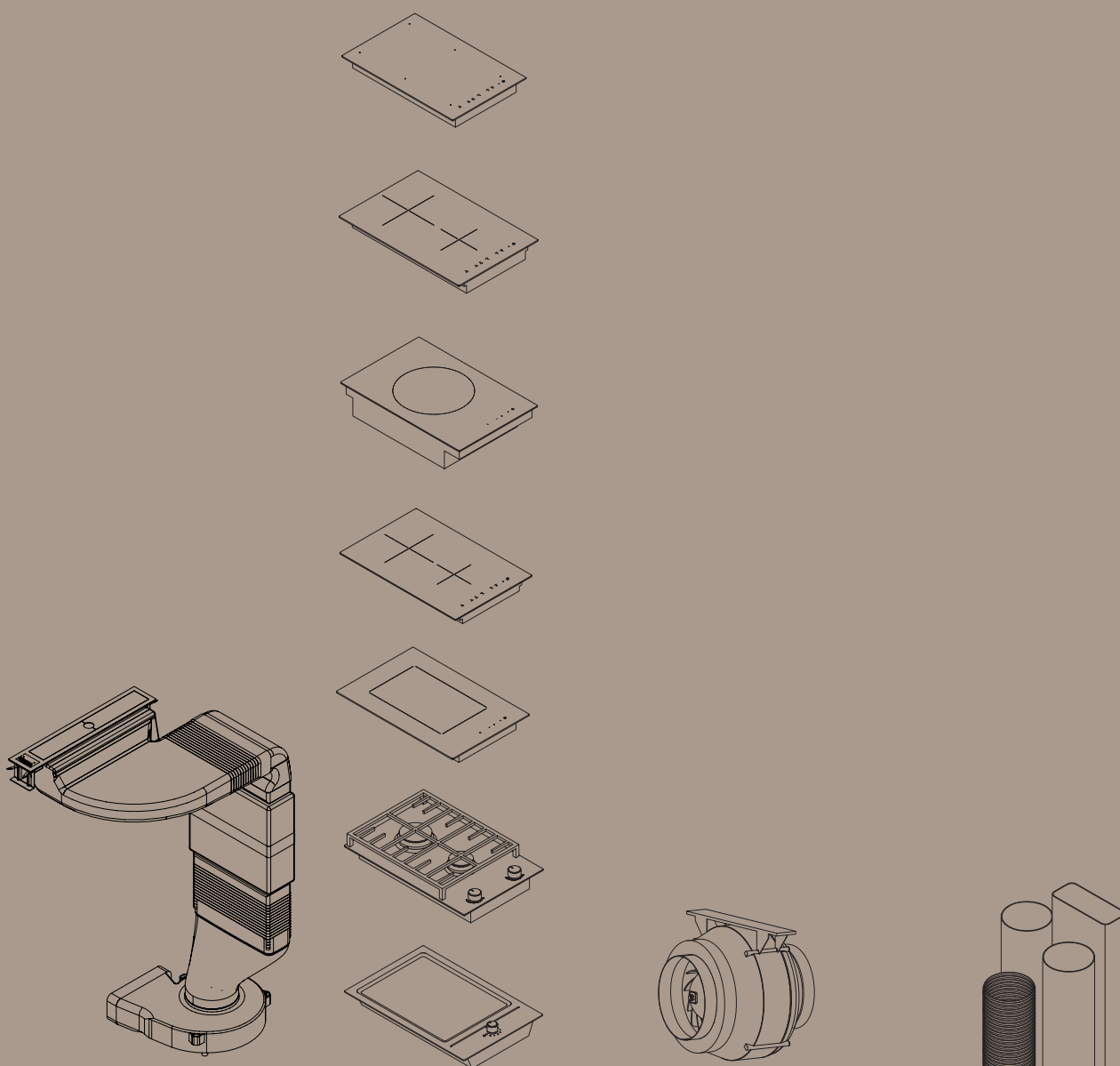




BORA Classic:

A well-designed system – a wide range of options

BORA Classic offers kitchen designers new possibilities for demanding clients. Equipped with intelligent touch operation, BORA Classic will accentuate your client's modern kitchen. The patented innovations redefine ergonomics and efficiency in cooking. Here is an overview of the simple and well-designed way in which all of the BORA Classic components fit together.



• BORA cooktop extractor system

The BORA Classic cooktop extractor system CKASE is perfectly coordinated with the BORA cooktops in the Classic series.

From page 48

• BORA cooktops

Whether induction, HiLight or gas – six cooktops and a Tepan stainless steel grill are available for demanding cooks.

From page 50

• BORA additional duct fans

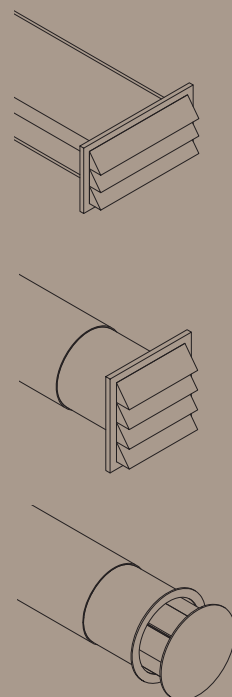
High-performance ventilation technology for complementing the BORA Classic cooktop extractor system.

From page 93

• Exhaust ducting channels

Naber® exhaust ducting channels are the optimal choice for the BORA Classic system.

From page 102

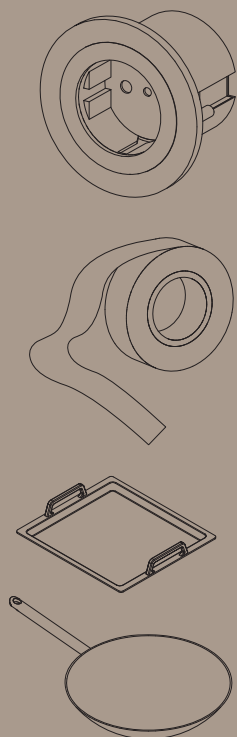


Exhaust air

Wall sleeves

Find out how Naber® wall vents affect the efficiency of the entire exhaust system.

From page 106

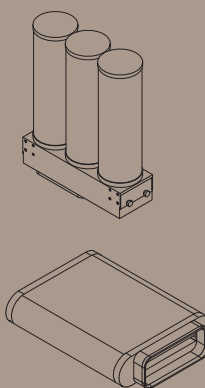


BORA universal articles

We offer professional quality down to the smallest detail.

From page 96

Recirculation



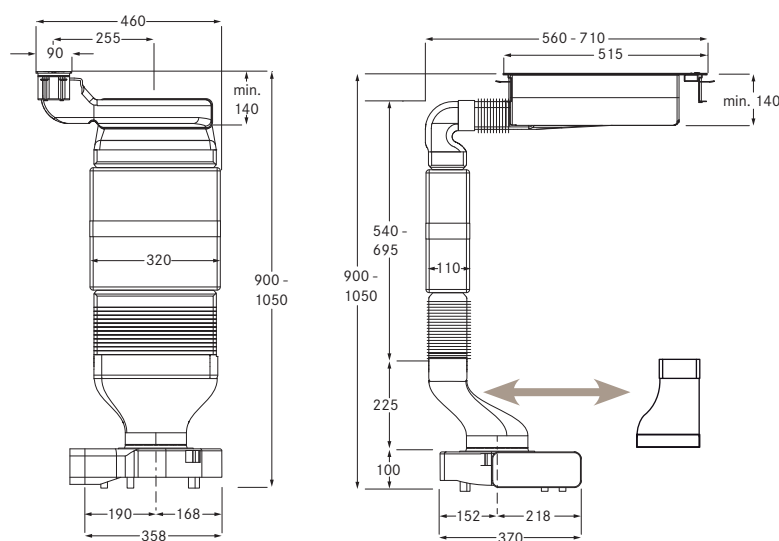
BORA recirculation unit

Efficient performance in recirculation mode for customised use in kitchen designs.

From page 94

CKASE cooktop extractor system





Technical data

Supply voltage	220 – 240 V
Frequency	50 Hz
Maximum power consumption	170 W
Fuse protection (internal)	3.15 A
Power supply cable	1 m, plug type F (EU)
Dimensions	Width: 460 mm Depth: 560–710 mm Height: 900–1050 mm
Weight (incl. accessories/package)	11 kg
Surface material	Stainless steel, brushed
Power levels	1–5
Maximum air volume	609 m³/h
Maximum static pressure	597 Pa
Suction connection	Round duct NW 150
Connection on the exhaust side	Naber Compair® flow 150

Product description

- 5 power levels
- Power level control via intelligent touch operation
- Lowest installation dimensions – even 600 mm deep work surfaces are possible
- Installation type: flush and surface-mounted
- Stainless steel grease filter
- Automatic after-run
- Filter service display
- Safety shut-down
- Interface for external devices via Home In or Home Out
- Option to connect an additional
- BORA ULIE20 additional duct fan

Scope of delivery

- CKASE cooktop extractor system (cooktop extractor with electronic controls, stainless steel grease filter, substructure module, protective grid, silence module, curved and straight transition pieces)
- ULS25 plinth fan
- USEE universal control unit
- CAT 5 communication cable
- Sealing tape for the cooktop extractor
- Sealing tape
- Height adjustment plate set
- Operating and installation instructions
- Power supply cable with type F (EU) plug 

Accessories

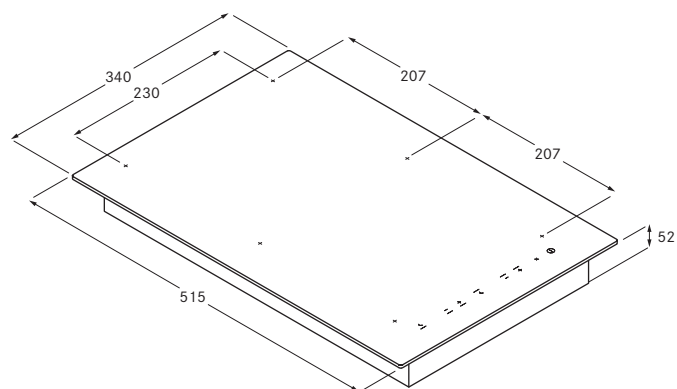
(can be ordered separately)

- Cover plate CKAAB0 (x 1)

Planning instructions

- Can be combined with all BORA Classic cooktops
- The worktop height and depth can be flexibly adjusted
- The cooktop extractor system can be installed in a body depth of 600 mm
- Ducting from the cooktop extractor to the silence module is always to the right.
- Can be flush installed or surface-mounted
- Fan can be positioned in the plinth area as a result of the low installation height (100 mm)
- Universal control unit as central connection point can be simply and compactly positioned in the plinth area
- The control box with touch control and the Universal control unit are connected via a CAT 5 communication cable
- The drawers and/or shelves in the floor unit must be removable for maintenance and cleaning purposes
- In case of an exhaust channel of more than 6 m in length or significant pressure losses, the plinth fan can be supplemented with a BORA ULIE20 additional duct fan
- The minimum cross-section of the air duct must be 176 cm², which equates to a round pipe with a diameter of 150 mm

BORA surface induction glass ceramic cooktop with 2 cooking zones



Technical data	
Supply voltage	220 – 240 V
Frequency	50 Hz
Maximum power consumption	3.7 kW
Maximum power rating	3.7 kW
Minimum fuse protection	1 x 16 A
Power levels	1 – 9
Weight (incl. accessories / packaging)	7.2 kg
Surface material	SCHOTT CERAN®
Power supply cable	1.5 m
Dimensions (width x depth x height)	340 x 515 x 52 mm
Front induction cooking zone	2100 W
Power setting	3700 W
230 x 207 mm	
Rear induction cooking zone	2100 W
Power setting	3700 W
230 x 207 mm	

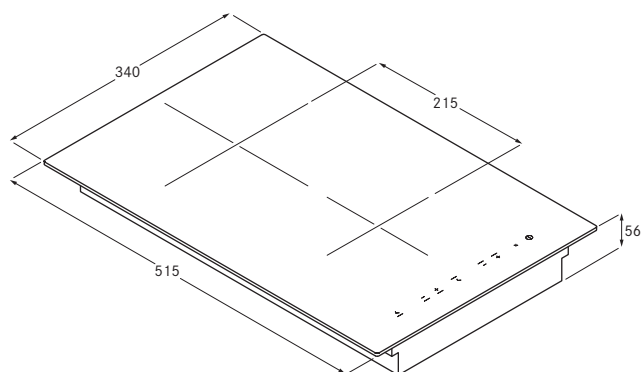
Product description
■ Automatic cut-off
■ Stop function
■ Automatic heat up function
■ Warming function
■ Timer function
■ Residual heat display
■ Power setting
■ Pan size recognition
■ Childproofing feature
■ Bridging function
■ Please note that induction-compatible cookware must be used on induction cooktops
■ Make sure that the area below the induction cooktop is sufficiently ventilated

Scope of delivery
■ CFI11 surface induction glass ceramic cooktop
■ Mounting straps
■ Sealing tape
■ Glass ceramic scraper
■ Height adjustment plate set
■ Operating and installation instructions
■ Power supply cable 

Accessories (can be ordered separately)

- UGPI1 grill pan

BORA induction glass ceramic cooktop with 2 cooking zones



Technical data	
Supply voltage	220 - 240 V
Frequency	50 Hz
Maximum power consumption	3.7 kW
Maximum power rating	3.7 kW
Minimum fuse protection	1 x 16 A
Power levels	1 - 9
Weight (incl. accessories / packaging)	8 kg
Surface material	SCHOTT CERAN®
Power supply cable	1.5 m
Dimensions (width x depth x height) (connection socket component height = 18 mm)	340 x 515 x 56 mm
1-ring front induction cooking zone	1100 W
Power setting	1400 W
Ø 155 mm	
1-ring rear induction cooking zone	2000 W
Power setting	2300 W
Ø 220 mm	

Product description
■ Automatic cut-off
■ Stop function
■ Automatic heat up function
■ Warming function
■ Timer function
■ Residual heat display
■ Power setting
■ Pan size recognition
■ Childproofing feature
■ Please note that induction-compatible cookware must be used on induction cooktops
■ Make sure that the area below the induction cooktop is sufficiently ventilated

Scope of delivery
■ CI 11 induction glass ceramic cooktop
■ Mounting straps
■ Sealing tape
■ Glass ceramic scraper
■ Height adjustment plate set
■ Operating and installation instructions
■ Power supply cable

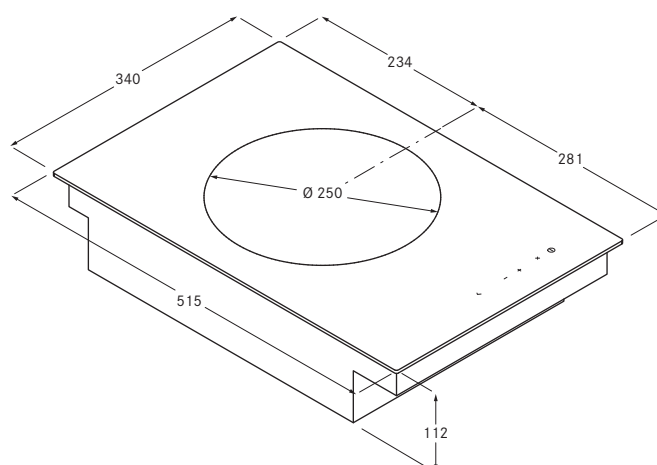


BORA induction glass ceramic wok cooktop



Important planning instructions:

- If the CIW1 induction glass ceramic wok cooktop is used, the rebate dimensions must be increased to 7 mm for flush installation!
- As a result of the height of 112 mm, the device cannot be installed over the exhaust ducting, consequently always plan the CIW1 to the left-hand side of the cooktop extractor.
- Make sure that the area below the induction cooktop is sufficiently ventilated.
- Glass ceramic mould: radius 210 mm
- A wok must be used that loses its magnetic properties when the temperature rises (overheating protection). We recommend the use of the wok available from us.



Technical data

Supply voltage	220 – 240 V
Frequency	50 Hz
Maximum power consumption	3.0 kW
Maximum power rating	3.0 kW
Minimum fuse protection	1 x 16 A
Power levels	1 – 9
Weight (incl. accessories / packaging)	9.0 kg
Surface material	SCHOTT CERAN®
Power supply cable	1.5 m
Dimensions (width x depth x height)	340 x 515 x 112 mm
Induction cooking zone	
Ø 250 mm	2400 W
Power setting	3000 W

Product description

- Automatic cut-off
- Stop function
- Timer function
- Residual heat display
- Power setting
- Pan size recognition
- Childproofing feature

Scope of delivery

- Induction glass ceramic wok CIW1
- Mounting straps
- Sealing tape
- Glass ceramic scraper
- Height adjustment plate set
- Operating and installation instructions
- Power supply cable

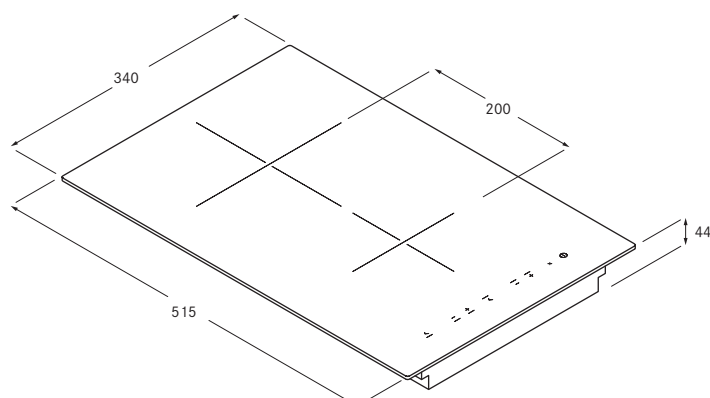


Accessories

(can be ordered separately)

- Induction wok Demeyere Procontrol, Controlinduc, stainless steel, Ø 36 cm, HIW1

BORA Hyper glass ceramic cooktop with 2 cooking zones: 1-ring/1-ring



Technical data	
Supply voltage	220 – 240 V
Frequency	50 Hz
Maximum power consumption	3.3 kW
Maximum power rating	3.3 kW
Minimum fuse protection	1 x 16 A
Power levels	1 – 9
Weight (incl. accessories / packaging)	6.3 kg
Surface material	SCHOTT CERAN®
Power supply cable	1.5 m
Dimensions (width x depth x height)	340 x 515 x 44 mm
1-ring front	1200 W
Ø 150 mm	
1-ring rear	2100 W
Hyper stage	3000 W
Ø 215 mm	

Product description
■ Hyper function
■ Automatic cut-off
■ Stop function
■ Automatic heat up function
■ Warming function
■ Timer function
■ Residual heat display
■ Childproofing feature

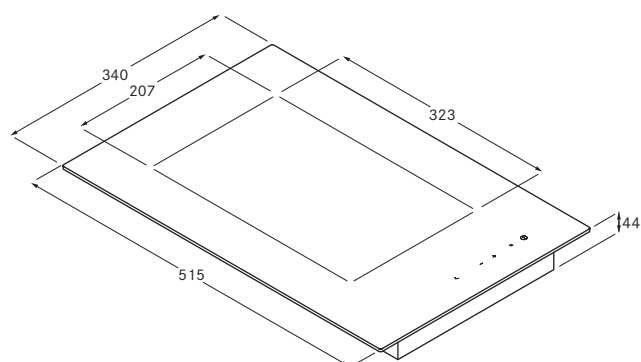
Scope of delivery
■ Hyper glass ceramic cooktop CCH 1
■ Mounting straps
■ Sealing tape
■ Glass ceramic scraper
■ Height adjustment plate set
■ Operating and installation instructions
■ Power supply cable



CCB1



BORA HiLight glass ceramic cooktop with roaster

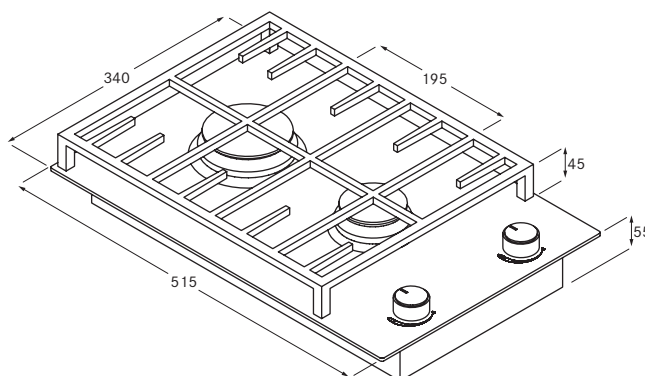


Technical data	
Supply voltage	220 - 240 V
Frequency	50 Hz
Maximum power consumption	1.4 kW
Maximum power rating	1.4 kW
Minimum fuse protection	1 x 16 A
Power levels	1 - 9
Weight (incl. accessories / packaging)	6.7 kg
Surface material	SCHOTT CERAN®
Power supply cable	2 m
Dimensions (width x depth x height) (connection socket component height = 18 mm)	340 x 515 x 44 mm
Roaster cooking zone	1400 W
207 x 323 mm	

Product description
■ Automatic cut-off
■ Stop function
■ Automatic heat up function
■ Warming function
■ Timer function
■ Residual heat display
■ Childproofing feature
■ The model CCB1 is specially designed for use with the grill pan UGPC1.

Scope of delivery
■ HiLight glass ceramic cooktop CCB1
■ Mounting straps
■ Sealing tape
■ Glass ceramic scraper
■ Height adjustment plate set
■ Operating and installation instructions
■ Power supply cable
Accessories (can be ordered separately)
■ UGPC1 grill pan

BORA gas glass ceramic cooktop with 2 cooking zones



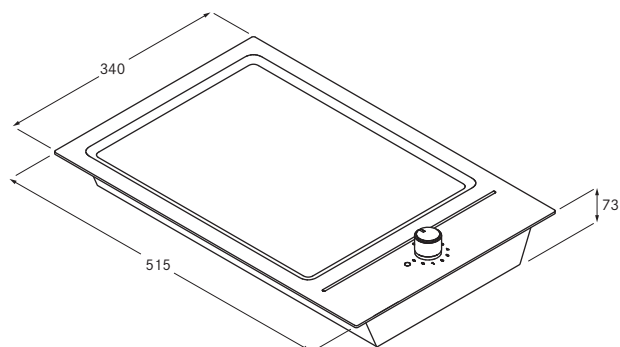
Technical data	
Supply voltage	220 – 240 V
Frequency	50 Hz
Maximum power consumption	3.8 kW
Maximum power rating	1.1 W
Minimum fuse protection	1x0.5 A
Power control	Freely adjustable
Weight (incl. accessories/package)	9.7 kg
Surface material	SCHOTT CERAN®
Power supply cable	1 m
Dimensions (width x depth x height)	
Cooktop	340x515x55 mm
Pan support	330x410x45 mm
Front normal burner	Up to 1000 W
Rear high-power burner	Up to 2800

Product description
■ 2-flame gas cooktop with high-power and normal burners
■ Childproofing feature
■ Removable pan support
■ Please note the local regulations and connection requirements applicable to gas cooktops!
■ When combining two CG 11 gas glass ceramic cooktops and a CKASE cooktop extractor, two CKAB0 cover plates must be additionally ordered as an air baffle.

Scope of delivery
■ CG 11 gas glass ceramic cooktop
■ Brushed stainless steel knob
■ Nozzle set: natural gas: 20/25 mbar
■ Mounting straps
■ Sealing tape
■ Flexible connection tube (gas) for simple installation
■ Glass ceramic scraper
■ Height adjustment plate set
■ Operating and installation instructions
■ Power supply cable



BORA Tepan stainless steel grill



Technical data	
Supply voltage	220 – 240 V
Frequency	50 Hz
Maximum power consumption	2.8 kW
Maximum power rating	2.8 kW
Minimum fuse protection	1 x 13 A
Power control	1 – 9, freely adjustable
Weight (incl. accessories/package)	12 kg
Surface material	Stainless steel, brushed
Temperature control range	90 – 240°C
Power supply cable	2 m
Dimensions (width x depth x height)	340x515x73 mm
Cooking surface	2800 W
270 x 360 mm	

Product description
■ Full-surface Tepan stainless steel grill with one cooking zone
■ 6 mm deep-drawn and brushed stainless steel with rounded inner corners for simple cleaning
■ Freely adjustable temperature control

Scope of delivery
■ CT1 Tepan stainless steel grill
■ Mounting straps
■ Control knob
■ PTTS1 Tepan scraper
■ Sealing tape
■ Height adjustment plate set
■ Operating and installation instructions
■ Power supply cable



CKASE

Classic CKASE

Product description

Classic cooktop extractor system with ULS25 plinth fan CKASE

Operating mode Exhaust air

Energy consumption Value EN standard

Annual energy consumption (AEC_{hood}) 24 kW/a 61591

Energy efficiency class A+ 61591

Flow volume

Fluid dynamic efficiency (FDE_{hood}) 38.4 61591

Fluid dynamic efficiency class A 61591

Lighting

Lighting efficiency (LE_{hood}) * lx/Watt *

Lighting efficiency class * *

Grease filtering

Level 5 maximum (GFE_{hood}) 47 % 61591

Class level 5 normal F 61591

Flow volume

Air flow level 1 minimum 224 m³/h 61591

Air flow level 5 maximal (Q_{Max}) 609 m³/h 61591

Sound power level

Level 1 minimum 46 dB(A) 60704-2-13

Level 5 maximum 67 dB(A) 60704-2-13

Sound pressure level (additional details)

Level 1 minimum 33 dB(A) **

Level 5 maximum 55 dB(A) **

Details according to 66/2014

Power consumption in off mode (P_o) < 0.5 W 61591

Time increase factor 0.6 61591

Energy efficiency index (EEI_{hood}) 31.7 61591

Air flow rate at the best efficiency point (Q_{BEP}) 280.8 m³/h 61591

Pressure at the best efficiency point (P_{BEP}) 536 Pa 61591

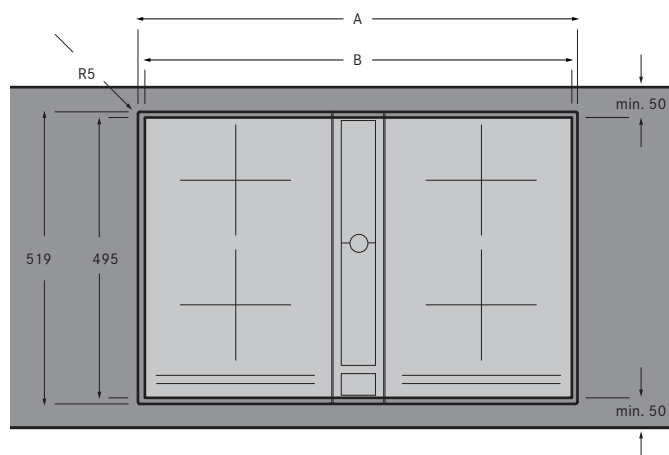
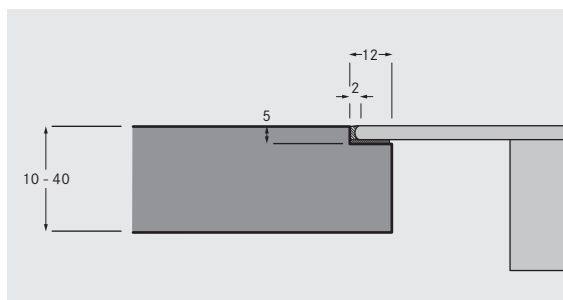
Electric power input at the best efficiency point (W_{BEP}) 109 W 61591

* 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 levels established in EN 60704-2-13.

Cut-out dimensions

BORA Classic – flush installation



Cooktops/cooktop extractor		A/B in mm
	1/0	344/320
	2/0	685/661
	3/0	1026/1002
	2/1	776/752
	3/2	1208/1184
	4/2	1549/1525

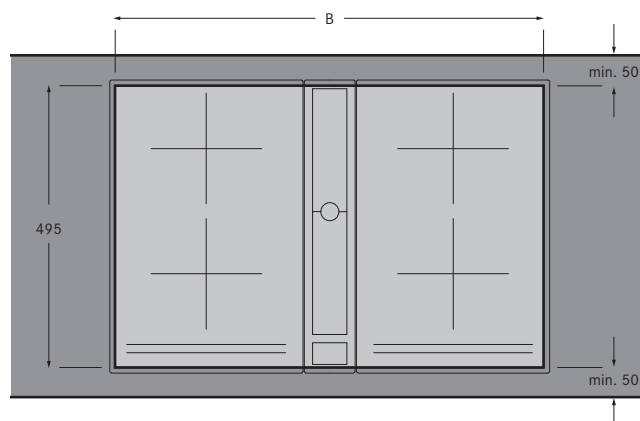
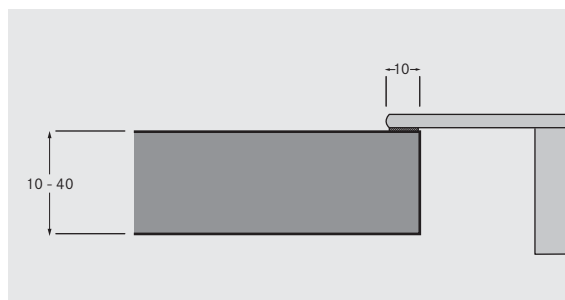
Clearance of one millimetre should be planned between the built-in appliances.

Important planning instructions:

■ When using the CIW1 induction glass ceramic wok, the rebate dimensions in case of flush installation must be increased to 7 mm!

■ With regard to the suitability of the worktop, the instructions from the worktop manufacturer must be complied with. For example, worktop cut-outs should be sealed appropriately against moisture.

BORA Classic – surface mounting



Cooktops/cooktop extractor		B in mm
	1/0	320
	2/0	661
	3/0	1002
	2/1	752
	3/2	1184
	4/2	1525

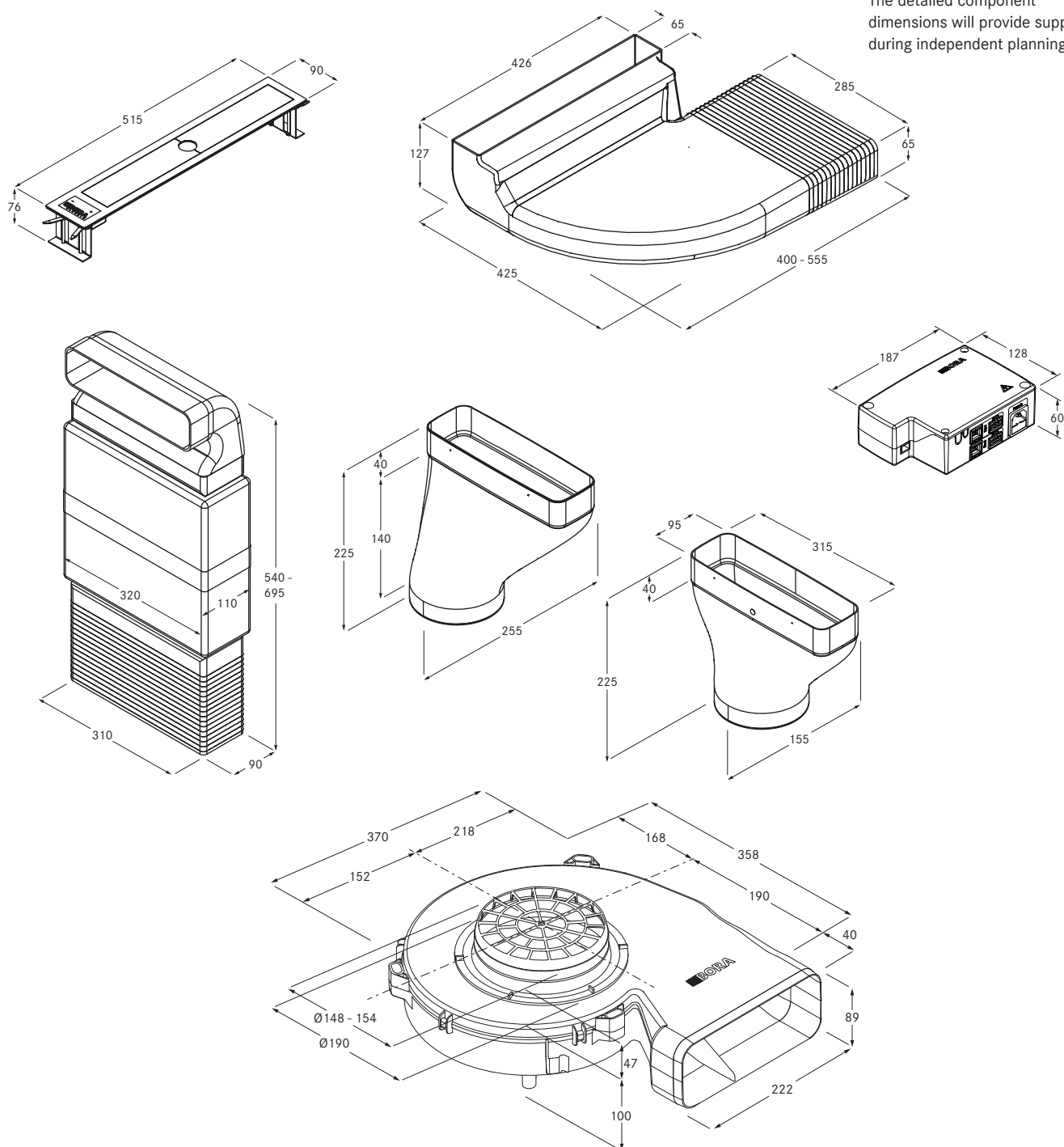
Clearance of one millimetre should be planned between the built-in appliances.

- With regard to the suitability of the worktop, the instructions from the worktop manufacturer must be complied with. For example, worktop cut-outs should be sealed appropriately against moisture.

CKASE

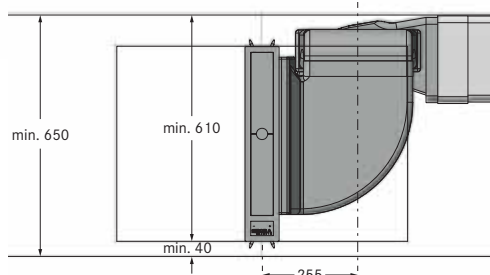
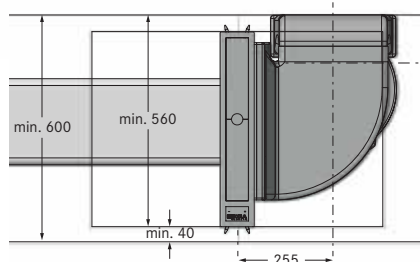
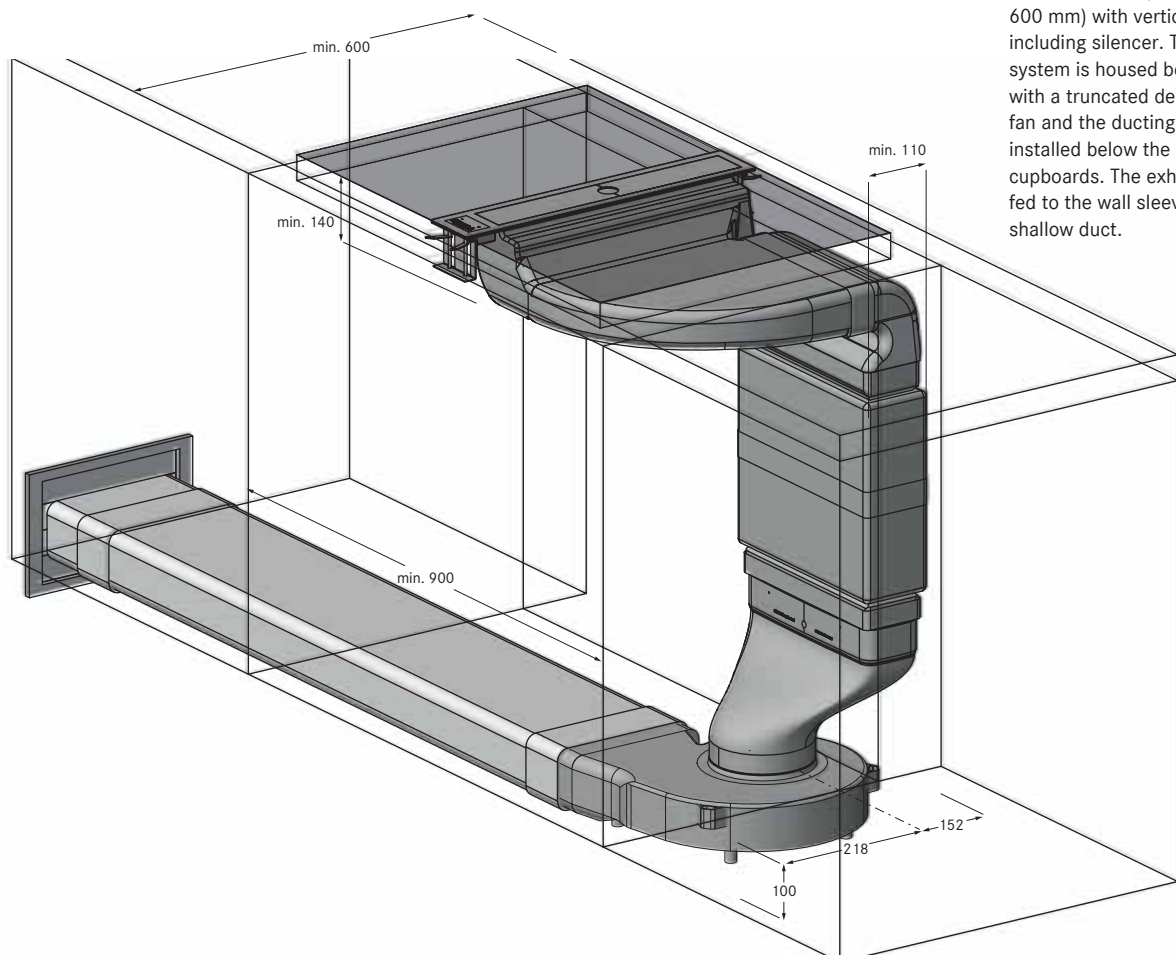
Component dimensions

The detailed component dimensions will provide support during independent planning.



Standard arrangements

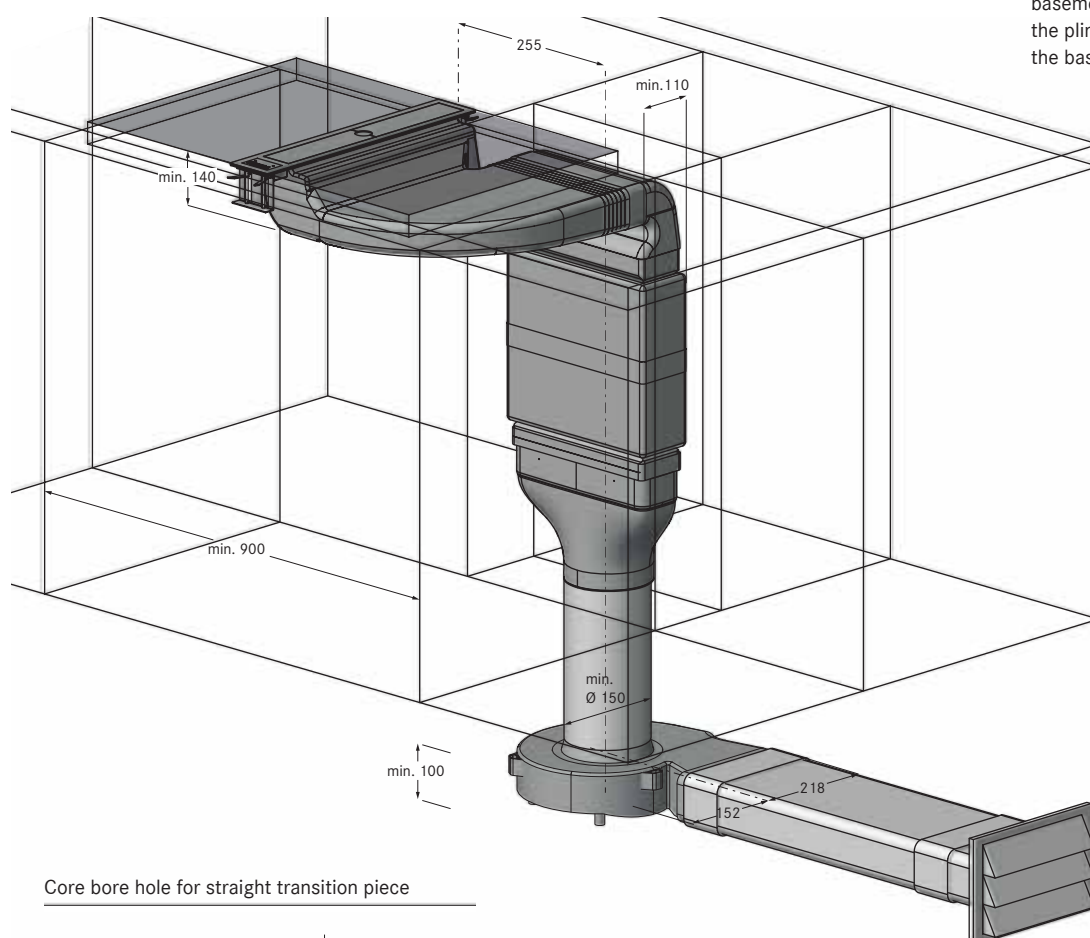
Standard exhaust air arrangements



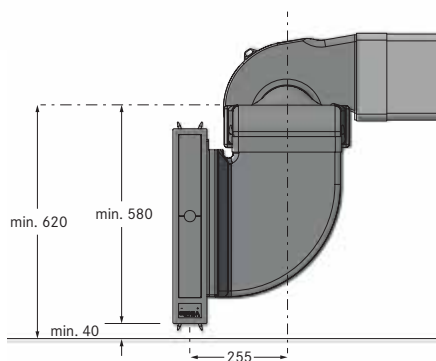
The plinth fan can also be installed to blow out to the right. In this case, you will need a worktop that is 50 mm deeper.

Standard exhaust air arrangements

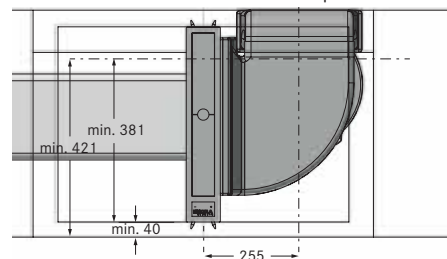
The body was shortened on the back of the kitchen island in order to create space for the ducting. This means that the hob floor cabinet can be completely retained. The exhaust pipe is fed into the basement via a core bore hole and the plinth fan is simply mounted on the basement ceiling.



Core bore hole for straight transition piece

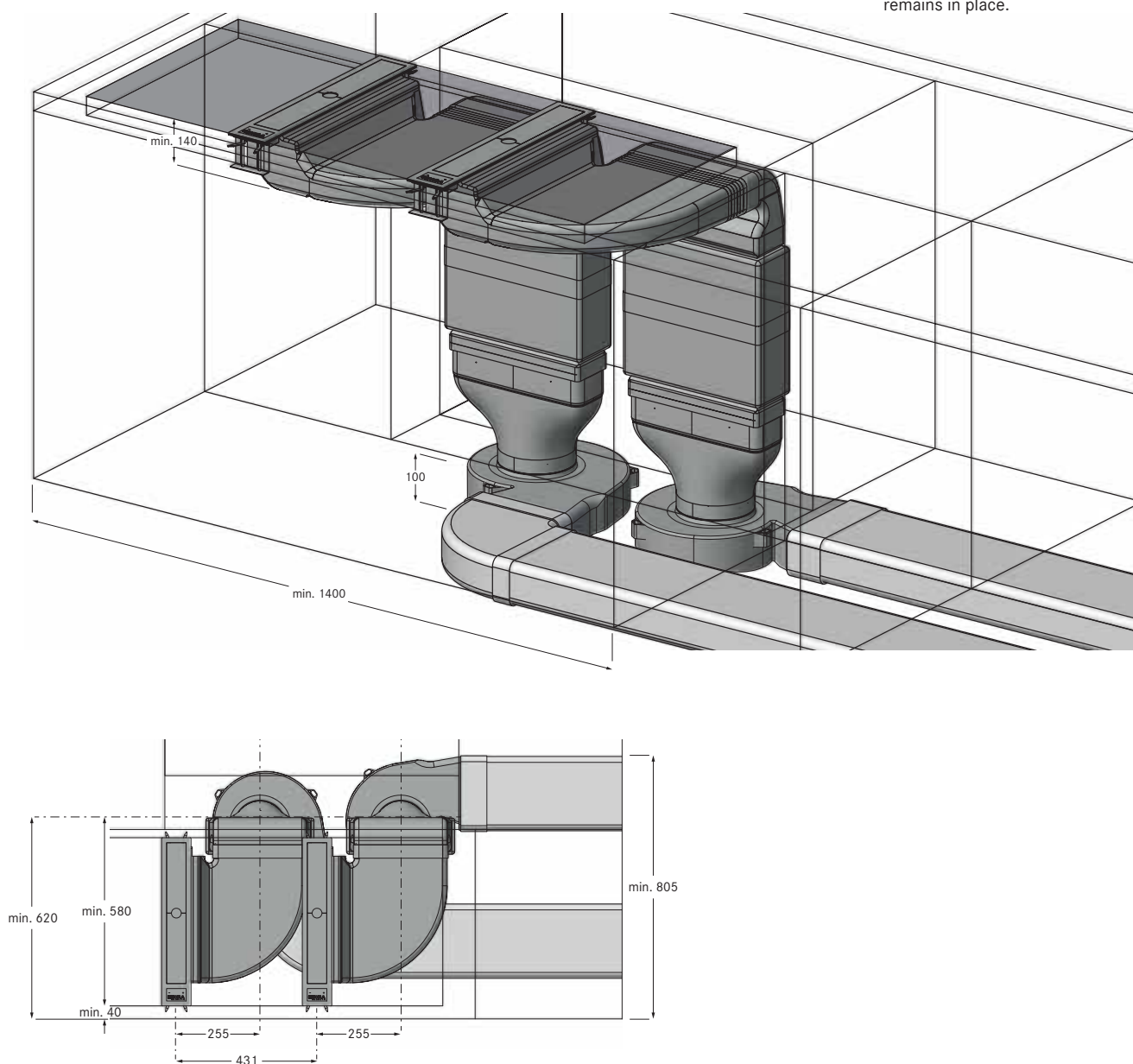


Core bore hole for curved transition piece

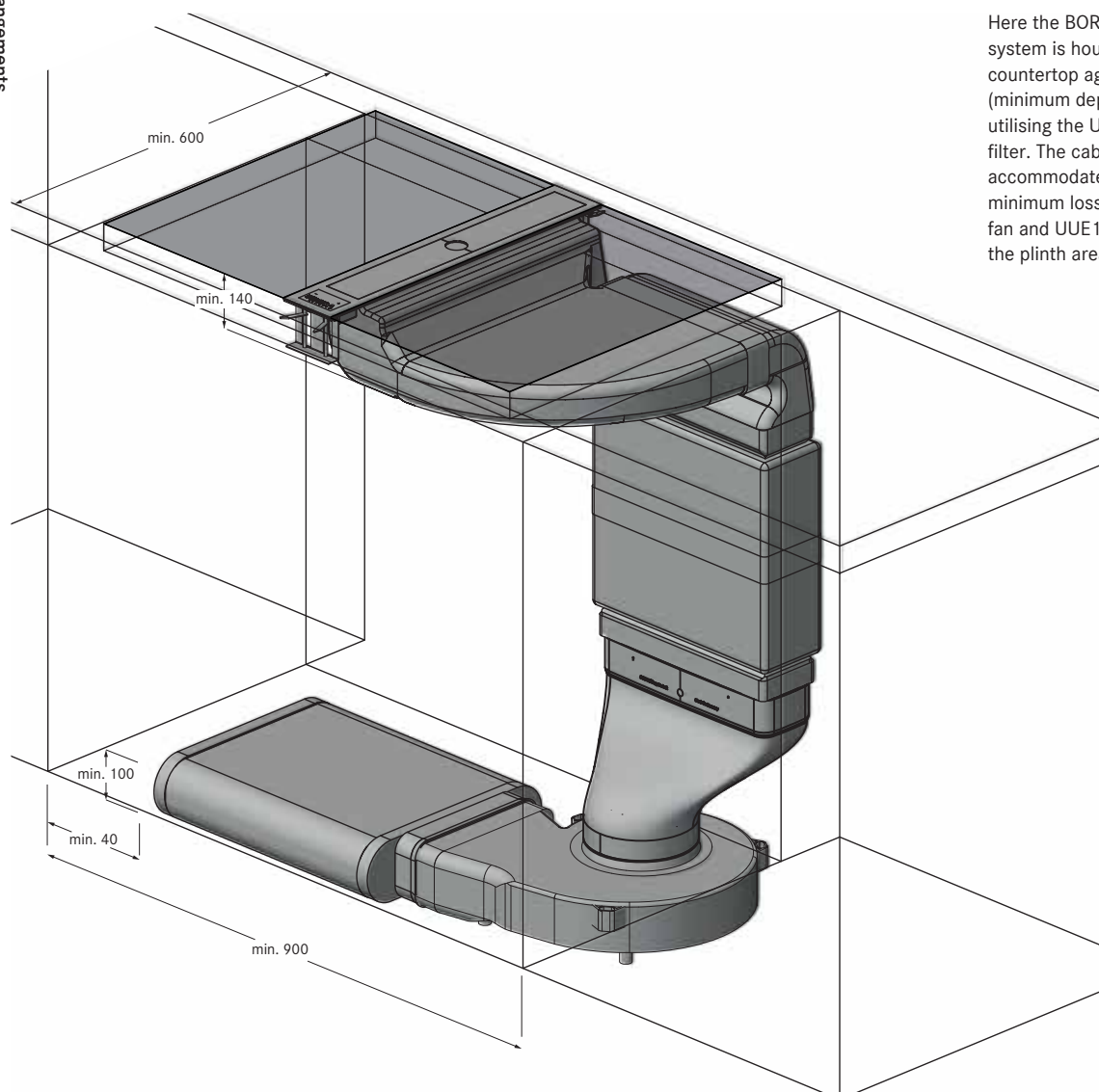


Standard exhaust air arrangements

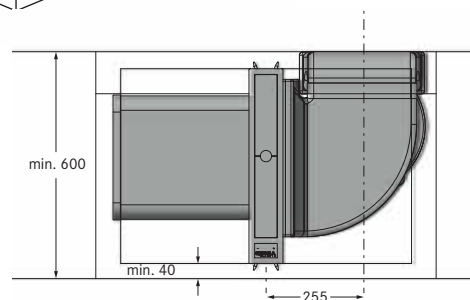
Here, three cooktops and two cooktop extractors have been installed in a kitchen island. The important thing is that the plinth fans must not collide with each other. The body on the back of the island was shortened for the ducting. The hob floor cabinet remains in place.



Standard recirculation arrangements



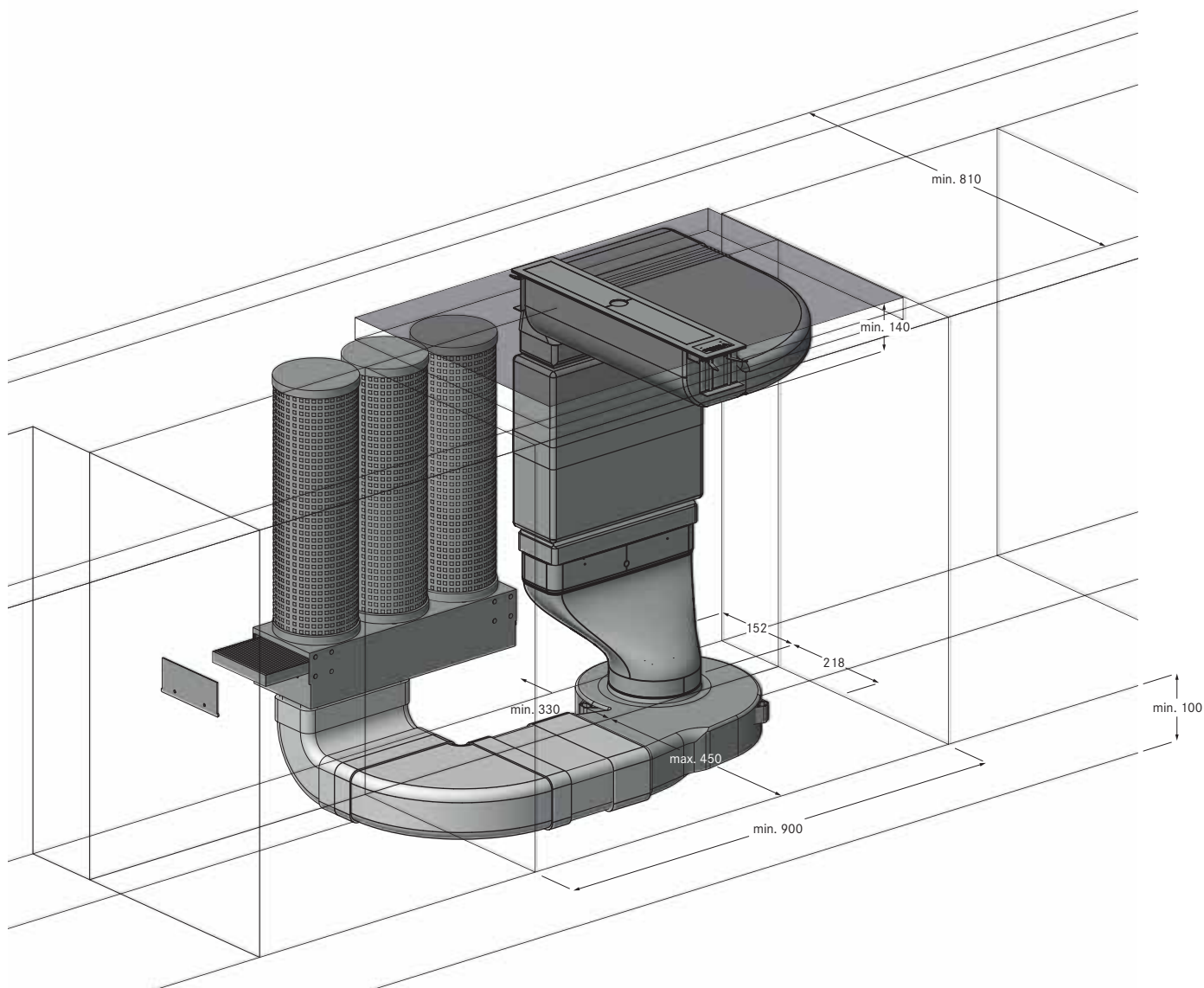
Here the BORA Classic cooking system is housed within a countertop against the wall (minimum depth required 600mm) utilising the UUE1 recirculation filter. The cabinetry is adjusted to accommodate the ducting with minimum loss of space. The plinth fan and UUE1 are positioned within the plinth area with ease.



Please position the recirculation unit in such a way that it is easily accessible for replacing the activated charcoal filter. To ensure optimal performance, cleaned air must return to the room from within the furniture by means of lowered plinth, ventilation grille etc. Ensure a minimum return flow aperture of 500 cm².

Standard recirculation arrangements

Here the UUE3 has been specified in a configuration with a countertop against the wall (minimum depth 810 mm if placing the UUE3 to the back). Remember to allow sufficient space to service the filters. The versatility of the BORA system allows many other planning solutions for the placement of the UUE3.



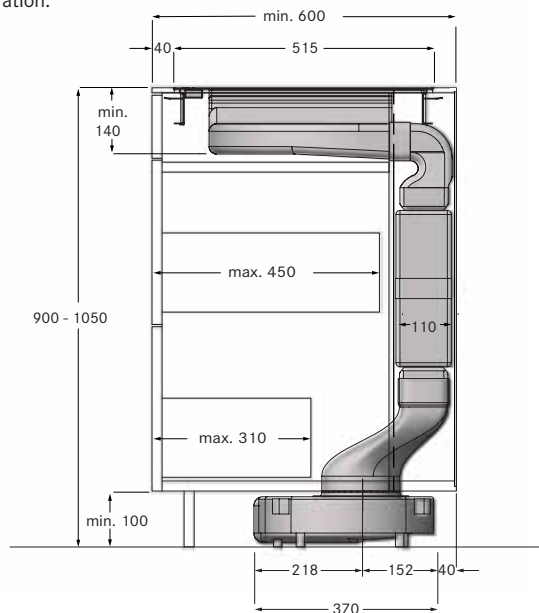
Please position the recirculation unit in such a way that it is easily accessible for replacing the activated charcoal filter. To ensure optimal performance, cleaned air must return to the room from within the furniture by means of lowered plinth, ventilation grille etc. Ensure a minimum return flow aperture of 500 cm².

Installation cut-outs

Kitchen counter/kitchen island options

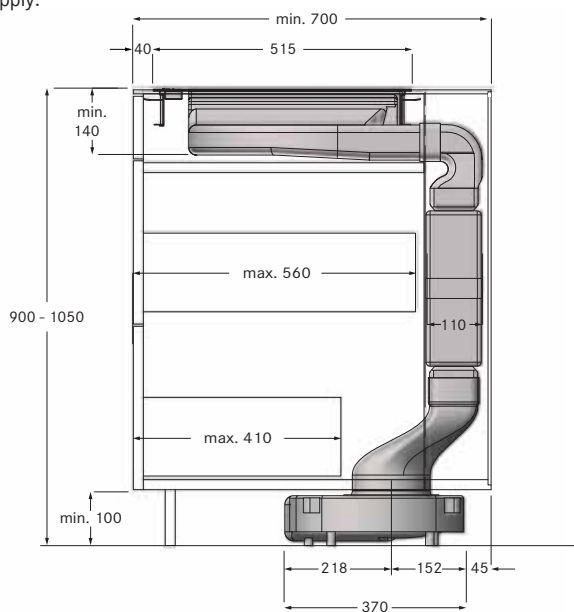
Kitchen counter, worktop 600 mm

The space-saving BORA Classic system requires worktops with a minimum depth of 600 mm. The exhaust ducting is hidden behind the top panel. With a height requirement of just 140 mm, it leaves space for the floor cabinet. In the plinth area, the fan requires a height of just 100 mm. Please observe the adjustments necessary to the drawer depths to accommodate this configuration.



Kitchen counter, extra-deep worktop from 700 mm

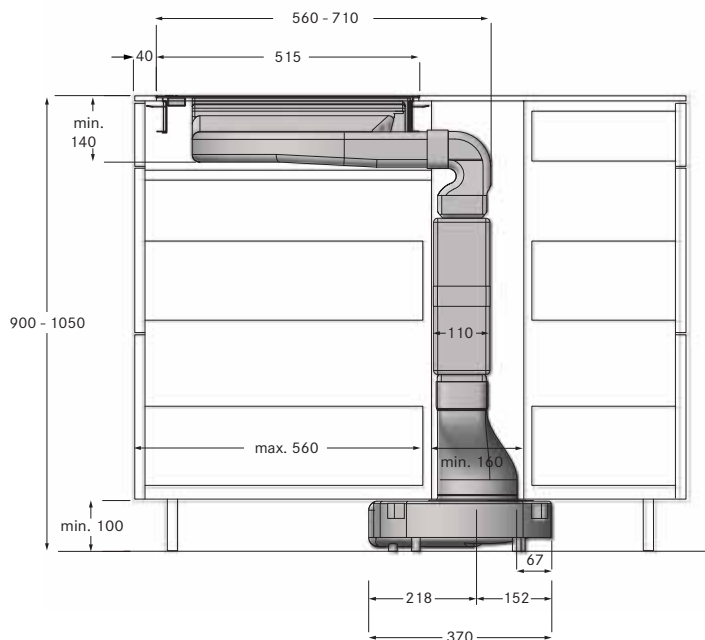
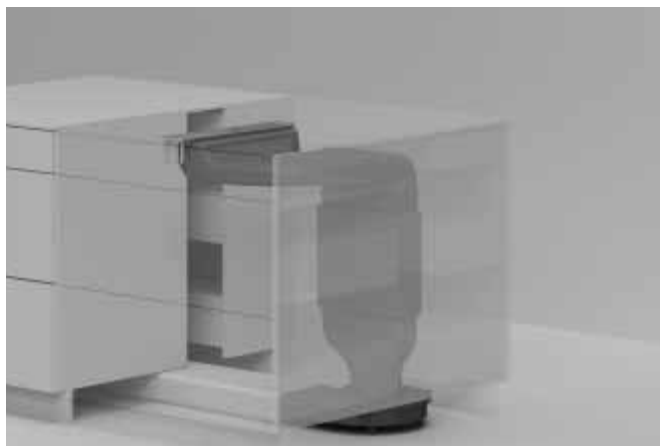
With countertops of 700 mm deep and above, the space-saving BORA ducting of the Classic series really maximises the available space. Here there is no reduction required to the middle drawer. Little reduction to the lower drawer is required as the motor is positioned against wall. The curved transition ducting piece is selected here which is included in the CKASE scope of supply.



Enjoy new freedom in kitchen design: the award-winning BORA Classic products enable you to create kitchens that would previously never have been possible. Whether counters or an island, exhaust air or recirculation – BORA Classic is an efficient solution for every kitchen configuration.

Kitchen island

Very little space is used by BORA in this island configuration which optimises the available space. In-between the front and back cabinets, a minimum of depth of 160 mm is required thanks to the use of the straight transition ducting piece (included within the CKASE scope of supply) which connects to the conveniently located plinth motor.



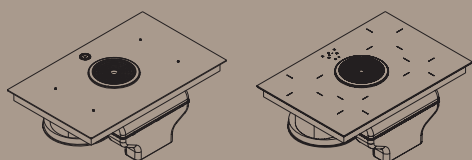
When installing cooktops and cooktop extractors above drawers, a removable protective shelf should be supplied to protect the cables and to enable servicing.

BORA Basic:

Brings together what belongs together

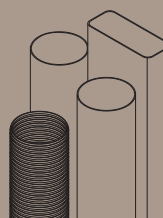
BORA basic is a revolution: cooktop and extractor in one compact unit. The recirculation model can be installed and ready to use in just a few minutes. The exhaust model only has to be connected with the appropriate ducts and wall sleeve. If you are looking for a solution that is both aesthetically pleasing and impressively effective, BORA Basic is a compelling solution for the individually designed kitchen.

Exhaust air



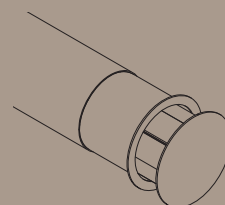
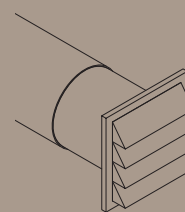
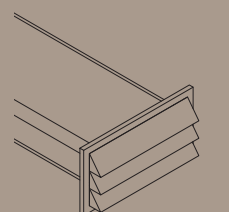
BORA Basic
Efficient performance redefined
and simple to adapt to any kitchen
environment.

From page 70



Exhaust ducting
Exhaust ducting from Naber® is
the ideal choice for the BORA
Basic system.

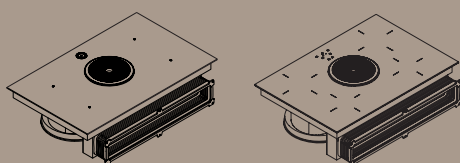
From page 102



Wall sleeves
Find out how Naber® wall vents
affect the efficiency of the entire
exhaust system.

From page 106

Recirculation



BORA Basic
Equipped with a high-performance
activated charcoal filter, BORA Basic
is the all-in-one solution for every
kitchen.

From page 71

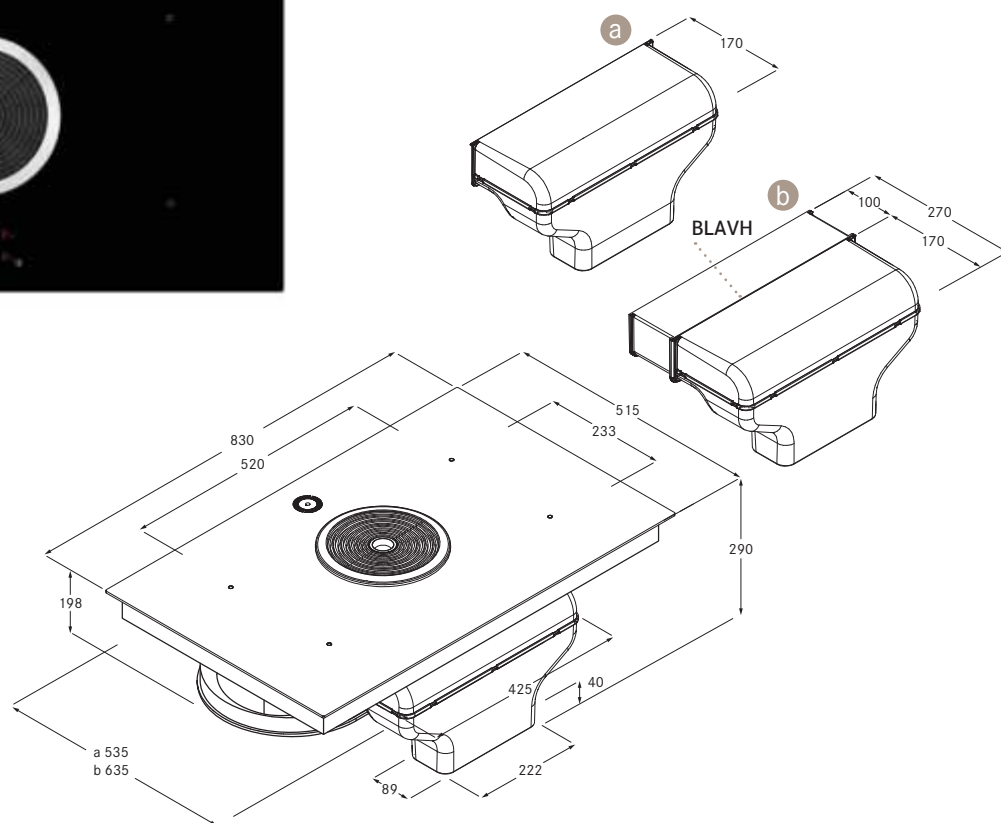
Glass ceramic cooktop with integrated cooktop extractor



The advantages of Basic

- Compact unit; cooktop and extractor in one
- Available with surface induction, induction or hyper glass ceramic cooktop
- Central operating panel
- Installation in standard body possible from a depth of 560 mm
- Easy access for cleaning and maintenance
- Available for exhaust air and recirculation mode
- Low installation height
- Simple and rapid installation
- For the BORA Basic exhaust air version, the duct system can be easily adapted to the installation conditions
- BORA Basic with recirculation can be instantly installed without any further adjustments
- Simple planning

BORA surface induction glass ceramic cooktop with integrated cooktop extractor – exhaust air



- Please note that induction-compatible cookware must be used on induction cooktops
- The connection cable is to be provided by the customer
- Front power socket
- Max. exhaust channel length: 6 m

Technical data

Supply voltage	380 – 415 V 2N/3N 220 – 240 V
Frequency	50 Hz
Maximum power consumption	7.6 kW (4.4 kW)
Fuse protection/power supply	3 x 16 A 2 x 16 A 1 x 32 A
Main dimensions (width x depth x height) (without duct connection)	830 x 515 x 198 mm
Weight (incl. accessories/package)	Approx. 25 kg
Surface material	SCHOTT CERAN®
Cooktop	
Front cooking zones	205 x 230 mm 2100 W
Power setting	3700 W
Rear cooking zones	205 x 230 mm 2100 W
Power setting	3700 W
Power levels	1 – 9, P
Extraction system	
Maximum air volume	697.3 m³/h
Maximum static pressure	372 Pa
Power levels	1 – 9, P
Exhaust air connection	Naber Compair® flow 150

Product description

Operation:

- Touch-operated round slide control

Cooktop:

- Automatic heat up function
- Bridging function
- Power setting
- Timer function
- Residual heat display
- Pan size recognition
- Pause function
- Warming function
- Childproofing feature
- Safety shut-down
- Power management (power reduction to 4.4 kW)

Extraction system:

- Energy-saving fan (EC motor)
- Freely adjustable power control
- Automatic cooktop extractor function
- Automatic after-run
- Safety shut-down
- Filter service display
- Interface for external devices via Home In/Home Out
- Power setting

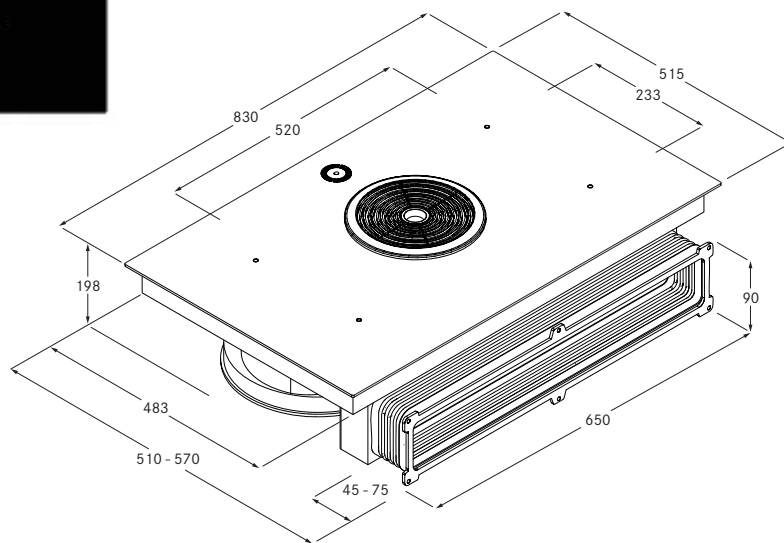
Scope of delivery

- Surface induction glass ceramic cooktop with cooktop extractor
- Stainless steel grease filter
- BLAVH horizontal exhaust air extension
- Mounting straps
- Sealing tape
- Glass ceramic scraper
- Cable routing clips
- Height adjustment plate set
- Operating and installation instructions

Replacement parts (accessories)

- BFF stainless steel grease filter
- BFIED air inlet nozzle
- BUSU recirculation conversion set
- UDB25 sealing tape

BORA surface induction glass ceramic cooktop with integrated cooktop extractor – recirculation



- Please note that induction-compatible cookware must be used on induction cooktops
- The connection cable is to be provided by the customer
- Front power socket

Technical data

Supply voltage	380-415 V 2N/3N 220 - 240 V		
Frequency	50 Hz		
Maximum power consumption	7.6 kW (4.4 kW)		
Fuse protection/power supply	3 x 16 A	    	
	2 x 16 A	   	
	1 x 32 A	  	
Main dimensions (width x depth x height) (without duct connection)	830 x 515 x 198 mm		
Weight (incl. accessories/packageging)	Approx. 25 kg		
Surface material	SCHOTT CERAN®		
Cooktop			
Front cooking zones	205 x 230 mm	2100 W	
Power setting		3700 W	
Rear cooking zones	205 x 230 mm	2100 W	
Power setting		3700 W	
Power levels	1 – 9, P		
Recirculation system			
Maximum air volume	658.8 m³/h		
Maximum static pressure	375 Pa		
Power levels	1 – 9, P		
Recirculation connection	650 x 90 mm		
Recirculation filter			
Filter medium	Activated charcoal with ion exchanger		
Material	Filter panel with fine filter		
Filter area	2 x 0.4 m²		
Filter capacity	Max. 150 operating hours		
Service life	Max. 150 h / 1 year		

Product description

Operation:

- Touch-operated round slide control

Cooktop:

- Automatic heat up function
- Bridging function
- Power setting
- Timer function
- Residual heat display
- Pan size recognition
- Pause function
- Warming function
- Childproofing feature
- Safety shut-down
- Power management (power reduction to 4.4 kW)

Extraction system:

- Energy-saving fan (EC motor)
- Freely adjustable power control
- Automatic cooktop extractor function
- Automatic after-run
- Safety shut-down
- Filter service display
- Interface for external devices via Home In or Home Out
- Power setting

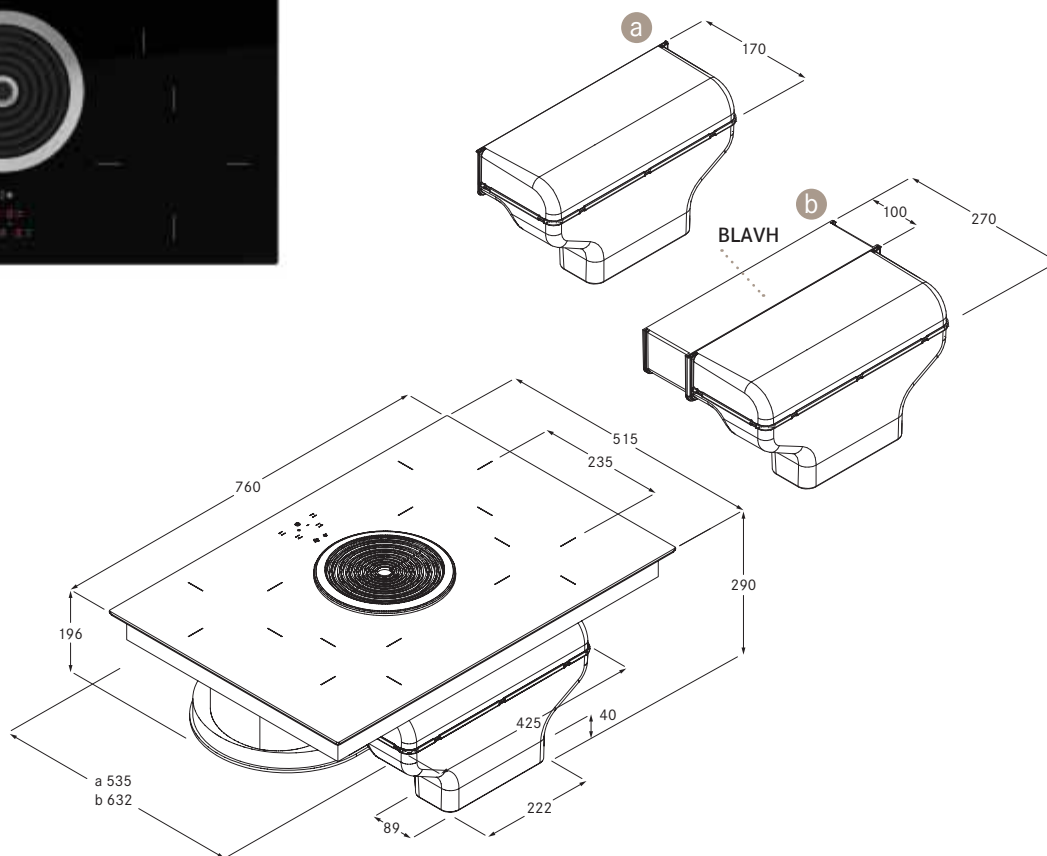
Scope of delivery

- Surface induction glass ceramic cooktop with cooktop extractor
- Stainless steel grease filter
- Activated charcoal filter with ion exchanger
- Flexible duct with fixing screws
- Mounting straps
- Sealing tape
- Glass ceramic scraper
- Cable routing clips
- Height adjustment plate set
- Operating and installation instructions

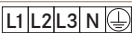
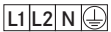
Replacement parts (accessories)

- BFF stainless steel grease filter
- BFIED air inlet nozzle
- BUSA exhaust air conversion set
- UDB25 sealing tape
- Activated charcoal filter with ion exchanger BAKFS (x 2)

BORA induction glass ceramic cooktop with integrated cooktop extractor – exhaust air



Technical data

Supply voltage	380 - 415 V 2N/3N 220 - 240 V
Frequency	50 Hz
Maximum power consumption	7.6 kW (4.4 kW)
Fuse protection/power supply	3 x 16 A  2 x 16 A  1 x 32 A 
Main dimensions (width x depth x height) (excl. duct connection)	760 x 515 x 196 mm
Weight (incl. accessories/packages)	25 kg
Surface material	SCHOTT CERAN®
Cooktop	
1-ring front induction cooking zones	2300 W Ø 210 mm
Power setting	3000 W
1-ring rear induction cooking zones	1400 W Ø 175 mm
Power levels	1 - 9
Extraction system	
Maximum air volume	647 m³/h
Maximum static pressure	339 Pa
Power levels	1, 2, P
Exhaust air connection	Naber Compair® flow 150

Product description

Cooktop:

- Power setting
- Automatic cut-off
- Timer function
- Residual heat display
- Pan size recognition
- Childproofing feature
- Power management
(power reduction to 4.4 kW)

Extraction system:

- Touch-operated power control
- Automatic after-run
- Automatic cut-off
- Filter service display
- Please note that induction-compatible cookware must be used on induction cooktops
- The connection cable is to be provided by the customer
- Front power socket
- Max. exhaust channel length: 6 m

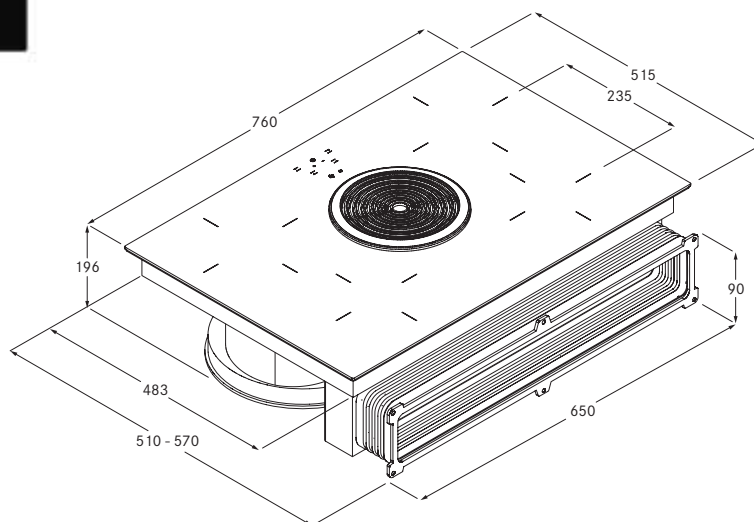
Scope of delivery

- Induction glass ceramic cooktop with cooktop extractor
- Stainless steel grease filter
- BLAVH horizontal exhaust air extension
- Mounting straps
- Sealing tape
- Glass ceramic scraper
- Cable routing clips
- Height adjustment plate set
- Operating and installation instructions

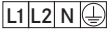
Replacement parts (accessories)

- BFF stainless steel grease filter
- BLE1 air inlet nozzle
- BUSU recirculation conversion set
- UDB25 sealing tape

BORA induction glass ceramic cooktop with integrated cooktop extractor – recirculation



Technical data

Supply voltage	380-415 V 2N/3N 220 – 240 V
Frequency	50 Hz
Maximum power consumption	7.6 kW (4.4 kW)
Fuse protection/power supply	3 x 16 A  2 x 16 A  1 x 32 A 
Main dimensions (width x depth x height) (excl. duct connection)	760 x 515 x 196 mm
Weight (incl. accessories/package)	25 kg
Surface material	SCHOTT CERAN®
Cooktop	
1-ring front induction cooking zones	2300 W ø 210 mm
Power setting	3000 W
1-ring rear induction cooking zones	1400 W ø 175 mm
Power levels	1 – 9
Extraction system	
Maximum air volume	624 m³/h
Maximum static pressure	341 Pa
Power levels	1, 2, P
Recirculation connection	650 x 90 mm
Recirculation filter	
Filter medium	Activated charcoal with ion exchanger
Material	Filter panel with fine filter
Filter area	2 x 0.4 m²
Service life	Max. 150 h/1 year

Product description

Cooktop:

- Power setting
- Automatic cut-off
- Timer function
- Residual heat display
- Pan size recognition
- Childproofing feature
- Power management
(power reduction to 4.4 kW)

Extraction system:

- Touch-operated power control
- Automatic after-run
- Automatic cut-off
- Filter service display
- Please note that induction-compatible cookware must be used on induction cooktops
- The connection cable is to be provided by the customer
- Front power socket

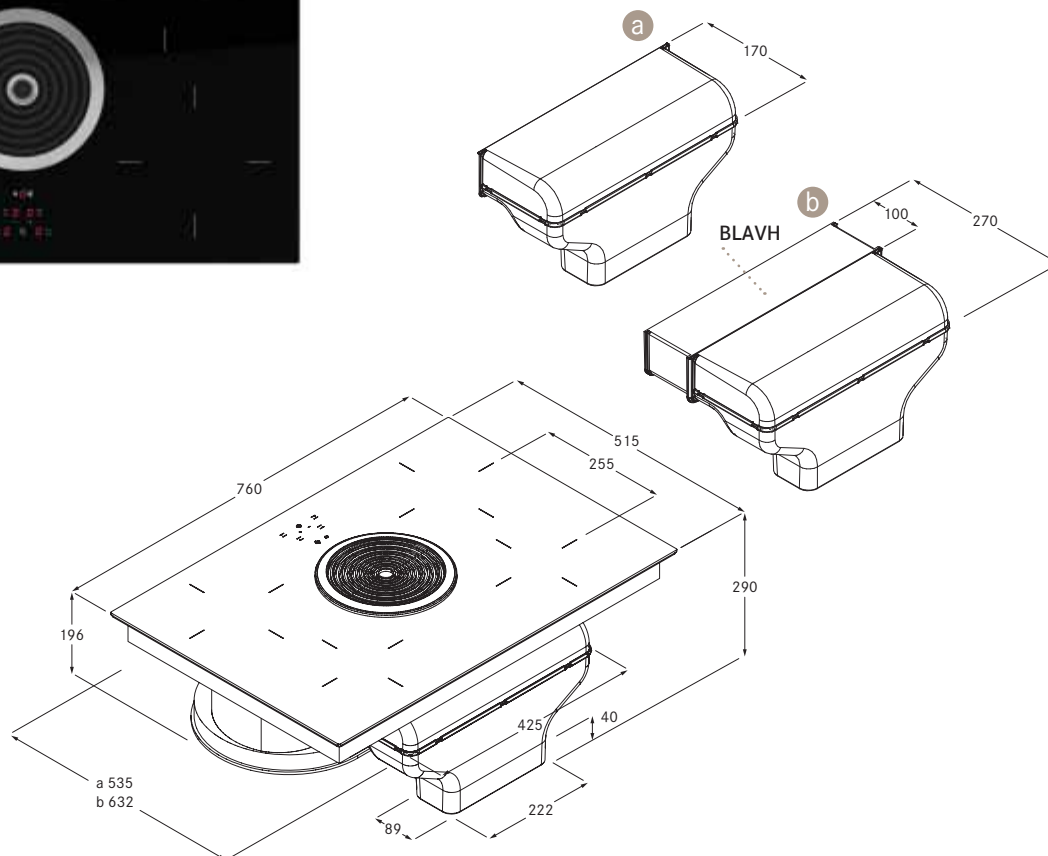
Scope of delivery

- Induction glass ceramic cooktop with cooktop extractor
- Stainless steel grease filter
- BAKFS activated charcoal filter set
- Flexible duct with fixing screws
- Mounting straps
- Sealing tape
- Glass ceramic scraper
- Cable routing clips
- Height adjustment plate set
- Operating and installation instructions

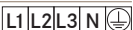
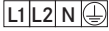
Replacement parts (accessories)

- BAKFS activated charcoal filter set
- BFF stainless steel grease filter
- BLE1 air inlet nozzle
- BUSA exhaust air conversion set
- UDB25 sealing tape

BORA Hyper glass ceramic cooktop with integrated cooktop extractor – exhaust air



Technical data

Supply voltage	380 - 415 V 2N/3N 220 - 240 V
Frequency	50 Hz
Maximum power consumption	7.0 kW
Fuse protection/power supply	3 x 16 A  2 x 16 A  1 x 32 A 
Main dimensions (width x depth x height) (excl. duct connection)	760 x 515 x 196 mm
Weight (incl. accessories/package)	25 kg
Surface material	SCHOTT CERAN®
Cooktop	
1-ring Hyper front left cooking zone	2100 W Ø 210 mm
Power setting	3000 W
1-ring rear left cooking zone	1200 W Ø 140 mm
1-ring front right cooking zone	2300 W Ø 210 mm
1-ring rear right cooking zone	1200 W Ø 140 mm
Power levels	1 – 9
Extraction system	
Maximum air volume	647 m³/h
Maximum static pressure	339 Pa
Power levels	1, 2, P
Exhaust air connection	Naber Compair® flow 150

Product description

Cooktop:

- Hyper stage
- Automatic cut-off
- Timer function
- Residual heat display
- Automatic heat up function
- Warming function
- Childproofing feature

Extraction system:

- Touch-operated power control
- Automatic after-run
- Automatic cut-off
- Filter service display
- The connection cable is to be provided by the customer
- Front power socket
- Max. exhaust channel length: 6 m

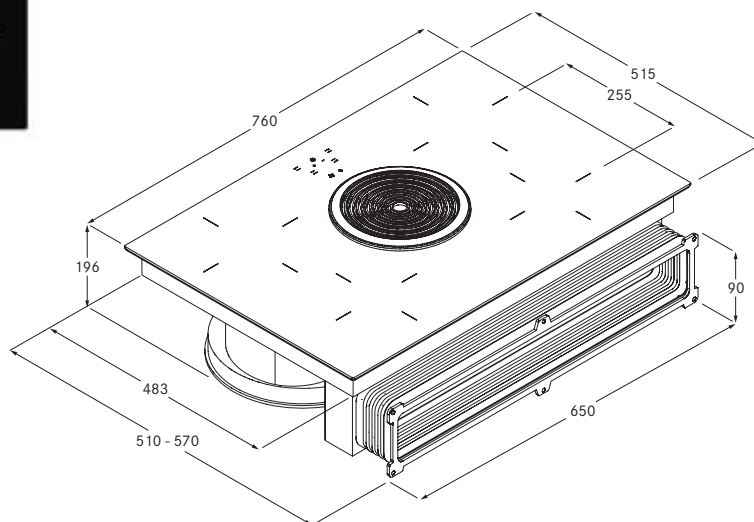
Scope of delivery

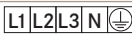
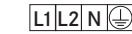
- Hyper glass ceramic cooktop with cooktop extractor
- Stainless steel grease filter
- BLAVH horizontal exhaust air extension
- Mounting straps
- Sealing tape
- Glass ceramic scraper
- Cable routing clips
- Height adjustment plate set
- Operating and installation instructions

Replacement parts (accessories)

- BFF stainless steel grease filter
- BLED1 air inlet nozzle
- BUSU recirculation conversion set
- UDB25 sealing tape

BORA Hyper glass ceramic cooktop with integrated cooktop extractor – recirculation



Technical data		
Supply voltage	380–415 V 2N/3N 220 – 240 V	
Frequency	50 Hz	
Maximum power consumption	7.0 kW	
Fuse protection/power supply	3 x 16 A	
	2 x 16 A	
	1 x 32 A	
Main dimensions (width x depth x height) (excl. duct connection)	760x515x196 mm	
Weight (incl. accessories/package)	25 kg	
Surface material	SCHOTT CERAN®	
Cooktop		
1-ring Hyper front left cooking zone	2100 W	Ø 210 mm
Power setting	3000 W	
1-ring rear left cooking zone	1200W	Ø 140 mm
1-ring front right cooking zone	2300 W	Ø 210 mm
1-ring rear right cooking zone	1200 W	Ø 140 mm
Power levels	1 – 9	
Extraction system		
Maximum air volume	624 m³/h	
Maximum static pressure	341 Pa	
Power levels	1, 2, P	
Recirculation connection	650 x 90 mm	
Recirculation filter		
Filter medium	Activated charcoal filter with ion exchanger	
Material	Filter panel with fine filter	
Filter area	2 x 0.4 m²	
Service life	Max. 150 h/1 year	

Product description
Cooktop:
■ Hyper stage
■ Automatic cut-off
■ Timer function
■ Residual heat display
■ Automatic heat up function
■ Warming function
■ Childproofing feature
Extraction system:
■ Touch-operated power control
■ Automatic after-run
■ Automatic cut-off
■ Filter service display
■ The connection cable is to be provided by the customer
■ Front power socket

Scope of delivery
■ Hyper glass ceramic cooktop with cooktop extractor
■ Stainless steel grease filter
■ BAKFS activated charcoal filter set
■ Flexible duct with fixing screws
■ Mounting straps
■ Sealing tape
■ Glass ceramic scraper
■ Cable routing clips
■ Height adjustment plate set
■ Operating and installation instructions
Replacement parts (accessories)
■ BAKFS activated charcoal filter set
■ BFF stainless steel grease filter
■ BLE1 air inlet nozzle
■ BUSA exhaust air conversion set
■ UDB25 sealing tape

Energy efficiency



BORA Basic BFIA/BFIU

Basic BFIA/BFIU

Product description

Surface induction glass ceramic cooktop with 4 cooking zones and integrated cooktop extractor

BFIA

BFIU

Operating mode

Exhaust air

Recirculation

Energy consumption

Value

Value

EN standard

Annual energy consumption (AEC_{hood})

54.8 kW/a

51.9 kW/a

61591

Energy efficiency class

B

*

61591

Flow volume

Fluid dynamic efficiency (FDE_{hood})

23.1

21.0

61591

Fluid dynamic efficiency class

B

*

61591

Lighting

Lighting efficiency (LE_{hood})

* lx/Watt

* lx/Watt

*

Lighting efficiency class

*

*

*

Grease filtering

Level 9 maximum (GFE_{hood})

91 %

91 %

61591

Class level 9 normal

B

*

61591

Grease filtering (additional details)

Level P maximum (GFE_{hood})

93 %

93 %

61591

Class level P maximum

B

*

61591

Flow volume

Air flow level 1 minimum

194.8 m³/h

* m³/h

61591

Air flow level 9 normal

607.3 m³/h

* m³/h

61591

Air flow level P maximum (Q_{max})

697.3 m³/h

658.8 m³/h

61591

Sound power level

Level 1 minimum

39.8 dB (A)

38.4 dB (A)

60704-2-13

Level 9 normal

66.3 dB (A)

66.5 dB (A)

60704-2-13

Level P maximum

69.6 dB (A)

69.7 dB (A)

60704-2-13

Sound pressure level (additional details)

Level 1 minimum

27.3 dB (A)

25.9 dB (A)

**

Level 9 normal

53.8 dB (A)

54.0 dB (A)

**

Level P maximum

57.1 dB (A)

57.2 dB (A)

**

Details according to 66/2014

Power consumption in off mode (P₀)

< 0.5 W

< 0.5 W

61591

Time increase factor

1.2

1.2

61591

Energy efficiency index (EEI_{hood})

65.2

64.5

61591

Air flow rate at the best efficiency point (Q_{BEP})

382 m³/h

311.4 m³/h

61591

Pressure at the best efficiency point (P_{BEP})

272 Pa

288 Pa

61591

Electric power input at the best efficiency point (W_{BEP})

125 W

118.5 W

61591

* 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 levels established in EN 60704-2-13.

BORA Basic BIA/BHA/BIU/BHU

Basic BIA/BHA/BIU/BHU

Product description

Glass ceramic cooktop with 4 cooking zones and an integrated cooktop extractor

BIA/BHA

BIU/BHU

Operating mode

Exhaust air

Recirculation

Energy consumption

Value

Value

EN standard

Annual energy consumption (AEC_{hood})

87.5 kW/a

94,2 kW/a

61591

Energy efficiency class

C

*

61591

Flow volume

Fluid dynamic efficiency (FDE_{hood})

15.7

13.1

61591

Fluid dynamic efficiency class

D

*

61591

Lighting

Lighting efficiency (LE_{hood})

* lx/Watt

* lx/Watt

*

Lighting efficiency class

*

*

*

Grease filtering

Level 2 maximum (GFE_{hood})

88.5 %

88.5 %

61591

Class level 2 normal

B

*

61591

Grease filtering (additional details)

Level P maximum (GFE_{hood})

93 %

93 %

61591

Class level P maximum

B

*

61591

Flow volume

Air flow level 1 minimum

342 m³/h

* m³/h

61591

Air flow level 2 normal

497 m³/h

* m³/h

61591

Air flow level P maximum (Q_{max})

647 m³/h

624 m³/h

61591

Sound power level

Level 1 minimum

55 dB (A)

* dB (A)

60704-2-13

Level 2 normal

64 dB (A)

65 dB (A)

60704-2-13

Level P maximum

69 dB (A)

70 dB (A)

60704-2-13

Sound pressure level (additional details)

Level 1 minimum

43 dB (A)

* dB (A)

**

Level 2 normal

51 dB (A)

53 dB (A)

**

Level P maximum

57 dB (A)

57 dB (A)

**

Details according to 66/2014

Power consumption in off mode (P₀)

< 0.5 W

< 0.5 W

61591

Time increase factor

1.4

1.5

61591

Energy efficiency index (EEI_{hood})

79.9

85.6

61591

Air flow rate at the best efficiency point (Q_{BEP})

370.8 m³/h

320.8 m³/h

61591

Pressure at the best efficiency point (P_{BEP})

261 Pa

253 Pa

61591

Electric power input at the best efficiency point (W_{BEP})

171.2 W

172.1 W

61591

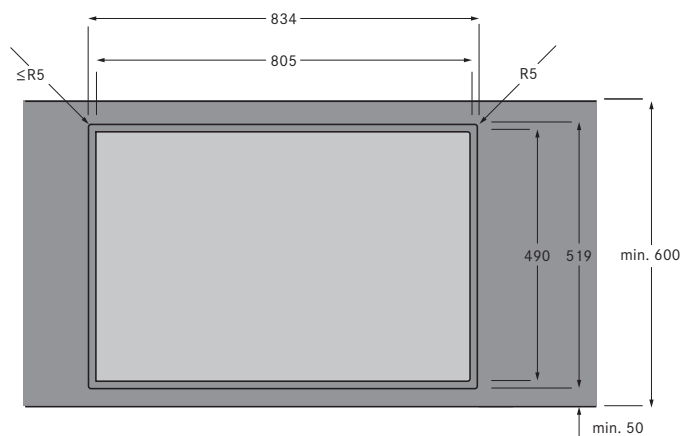
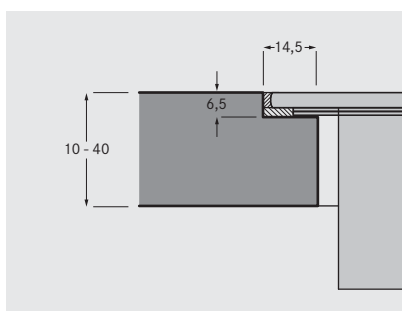
* This specification is not applicable for this product.

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

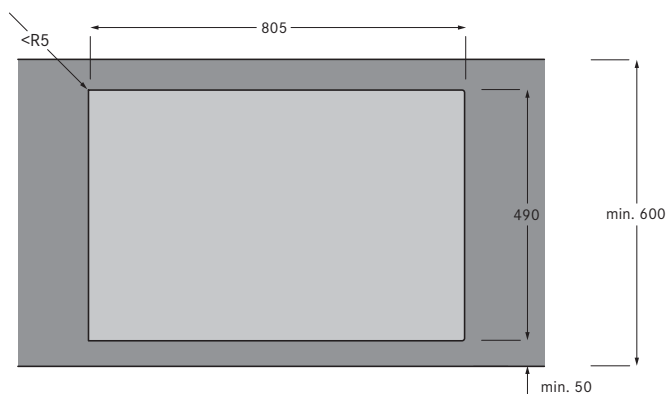
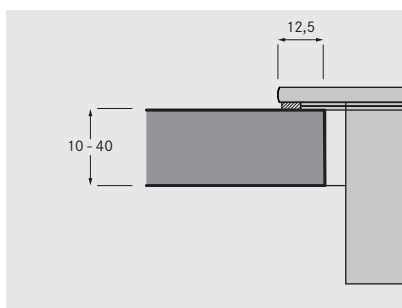
Cut-out dimensions

BORA Basic BFIA/BFIU: flush installation and surface mounting

Flush installation

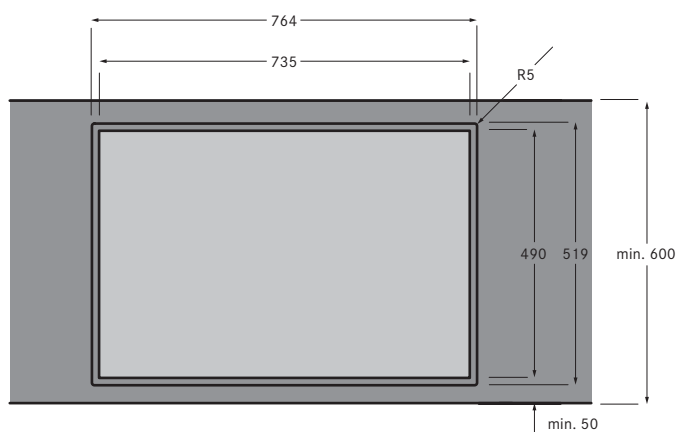
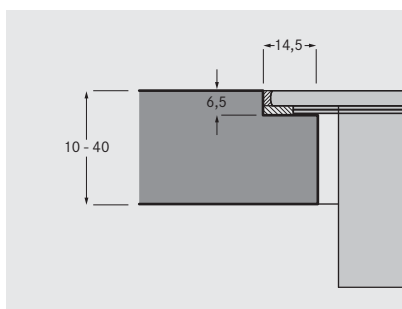


Surface mounting

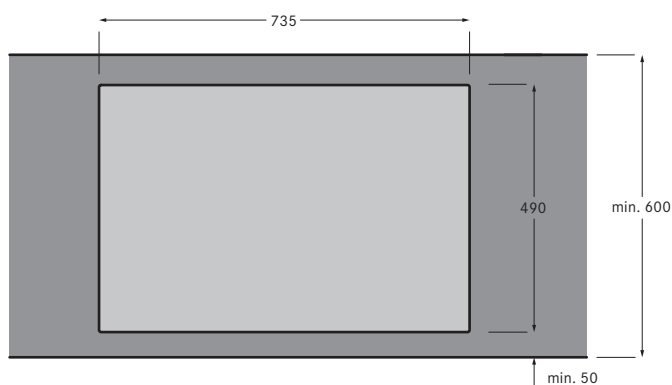


With regard to the suitability of the worktop, the instructions from the worktop manufacture must be adhered to. For example, worktop cut-outs must be appropriately sealed against moisture.

Flush installation



Technical drawing of a door handle assembly. The drawing shows a side view of a handle with a rectangular base and a cylindrical grip. Dimensions are indicated: a width of 12,5 and a height of 10 - 40.

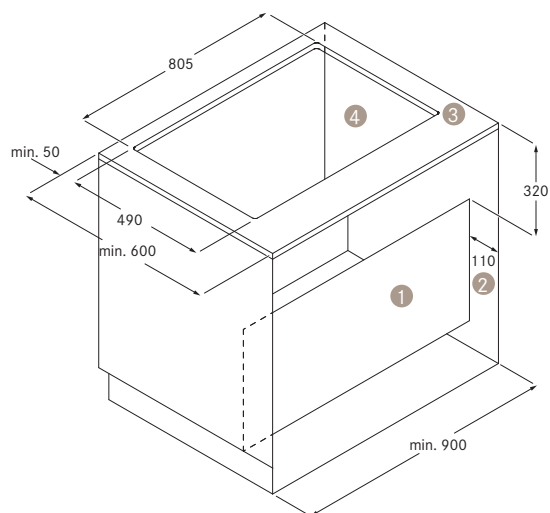


79

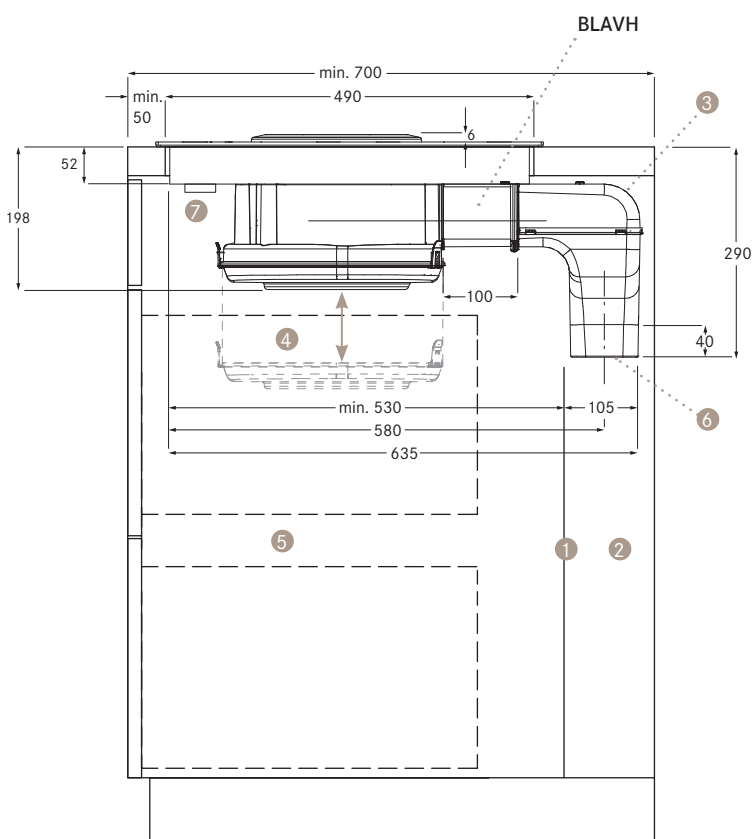
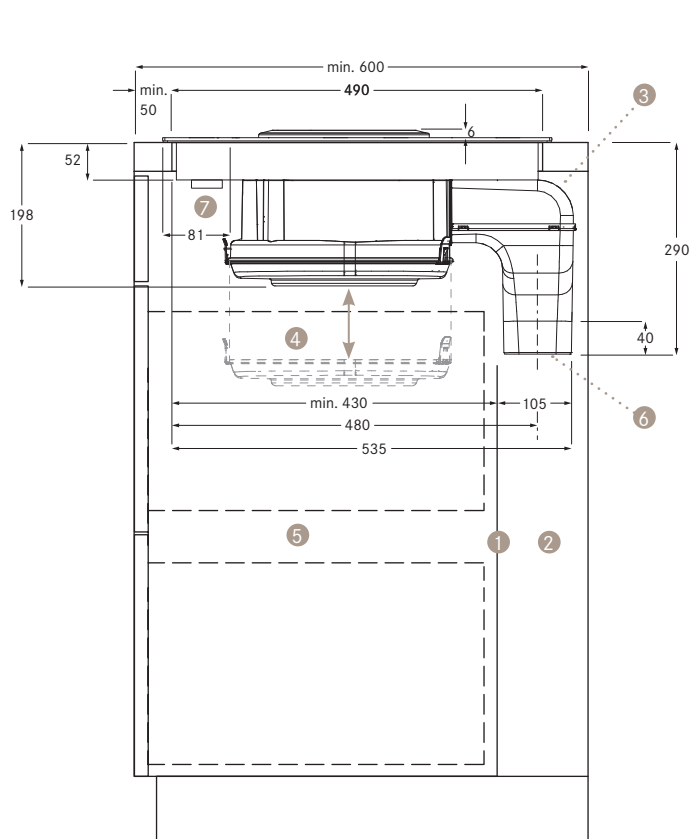
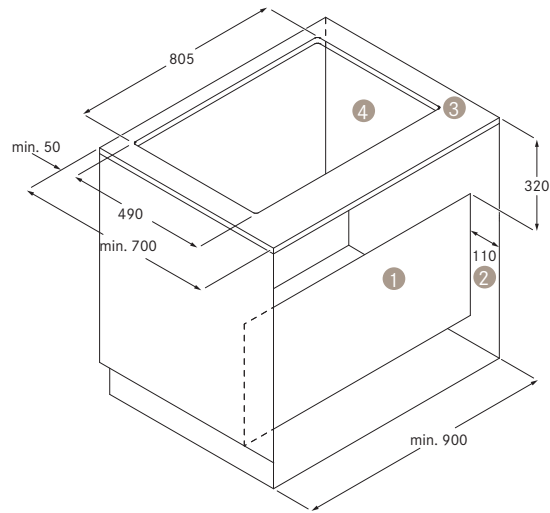
Installation dimensions

BORA Basic BFIA: tips for simple installation

Version a: kitchen counter, worktop 600 mm

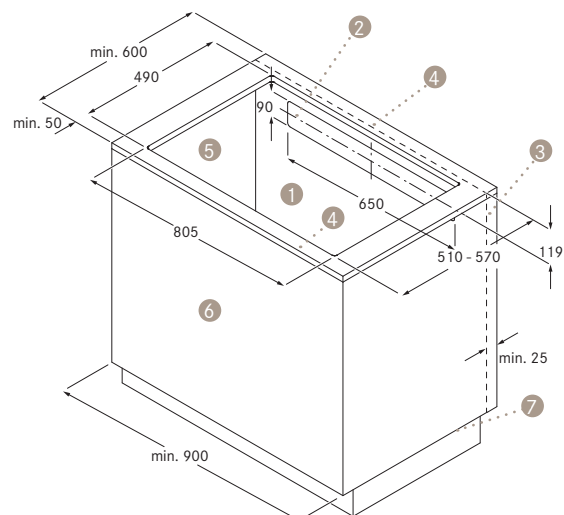


Version b: kitchen counter, extra-deep worktop from 700 mm

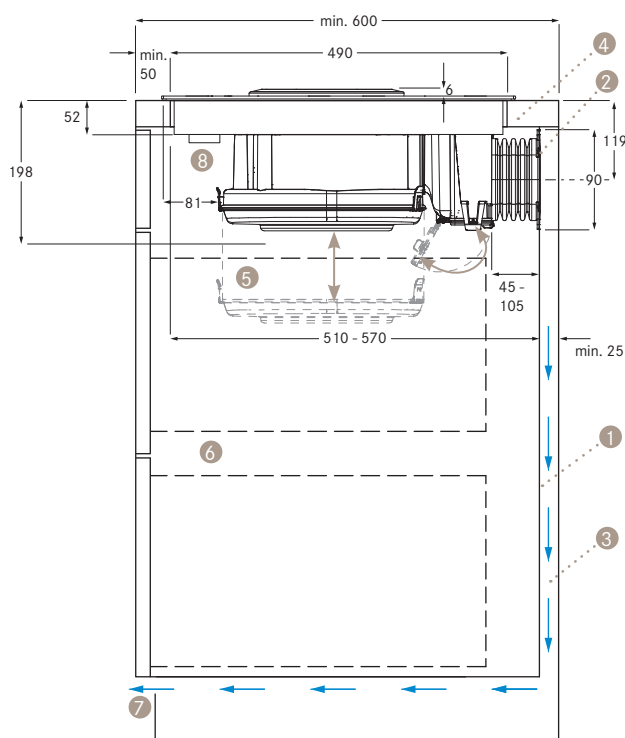
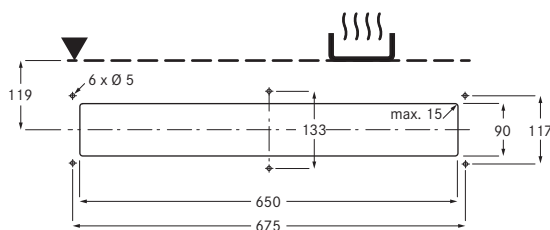


1. The back wall of the floor unit must be adjusted for the exhaust air duct.
2. A minimum clearance of 110 mm between the back furniture body wall and an adjacent kitchen unit or room wall must be observed for the exhaust air duct.
3. Cross bars on the kitchen unit in the area of the worktop cut-out may need to be removed.
4. In order to guarantee accessibility for maintenance work, no cable protection should be used. Make sure that the area below the cooktop is sufficiently ventilated.
5. The drawers and/or shelves in the floor unit must be removable (for easier maintenance and cleaning).
6. The exhaust connection is compatible with the Naber system Compair® flow 150. The exhaust air should be directed to the outside in appropriate exhaust air ducts. The minimum cross-section of the air ducts must be at least a nominal width of 150 mm (round duct $\Delta 176 \text{ cm}^2$). Planning instructions for installation can be found from page 102.
7. Power socket on the front.

BORA Basic BFIU: tips for simple installation

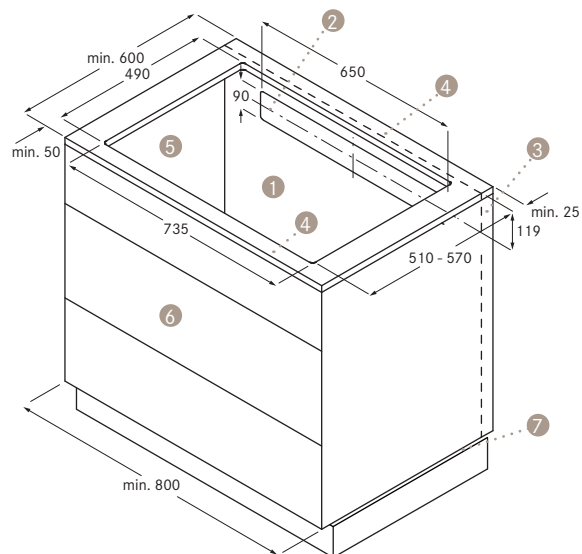


Rear wall cut-out

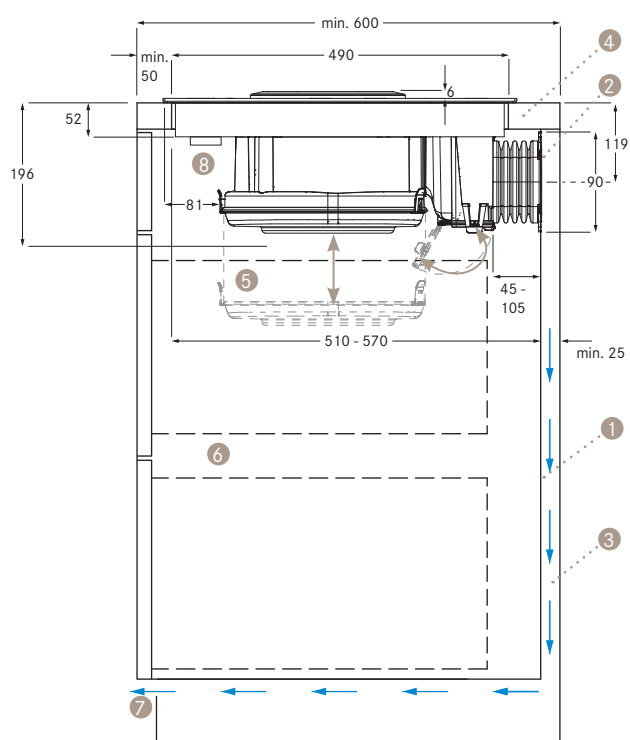
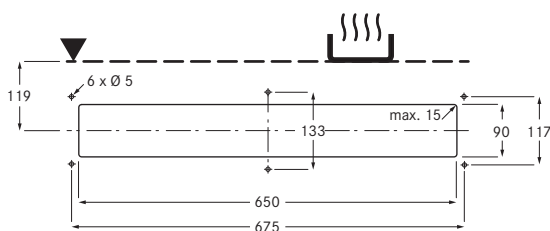


1. The floor unit must have a continuous back wall so that the exhaust air is not directed into the front furniture body compartment.
2. Create cut-outs in the back wall.
3. A minimum clearance between the back furniture body wall and an adjacent kitchen unit or room wall must be observed for the exhaust air.
4. Cross bars on the kitchen unit in the area of the worktop cut-out may need to be removed.
5. In order to guarantee accessibility for maintenance work, no cable protection should be used.
6. The drawers and/or shelves in the floor unit must be removable (for easier maintenance and cleaning).
7. To ensure optimal performance, cleaned air must return to the room from within the furniture by means of lowered plinth, ventilation grille etc.
Ensure a minimum return flow aperture of 500 cm².
8. Power socket on the front.

BORA Basic BIU/BHU: tips for simple installation



Rear wall cut-out

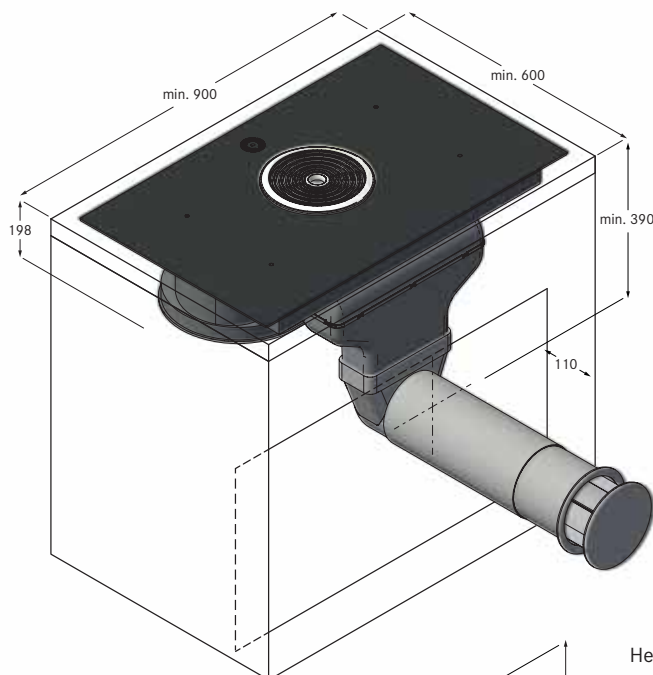


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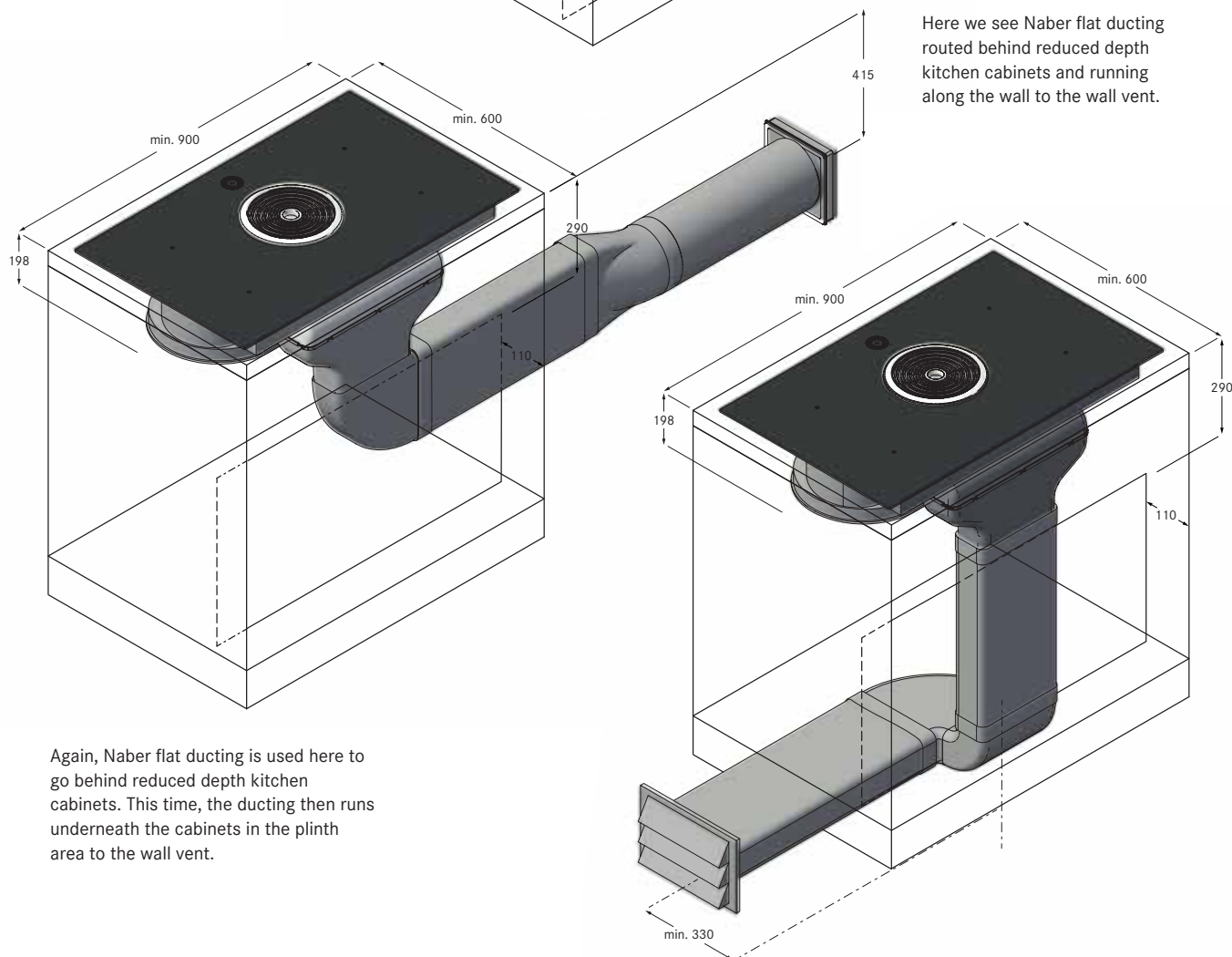
Standard arrangements

BORA Basic BFIA: standard exhaust air arrangements

In this example BORA Basic has been installed in a kitchen counter located directly on the external wall. The exhaust ducting shown with just a short duct directs cooking vapours and odours directly outside. This solution is particularly suitable for worktops and floor cabinets with a shallow depth.



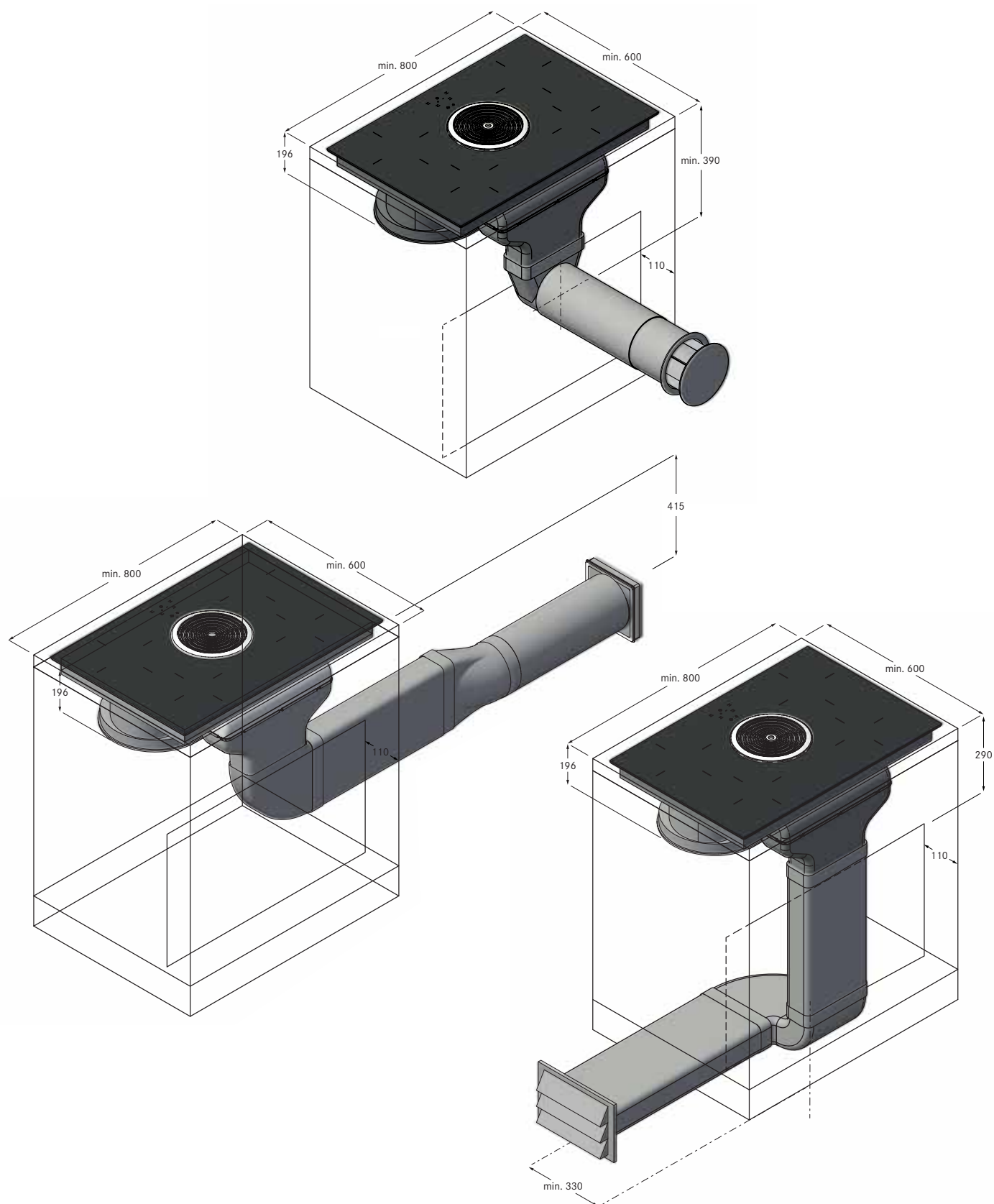
Here we see Naber flat ducting routed behind reduced depth kitchen cabinets and running along the wall to the wall vent.



Again, Naber flat ducting is used here to go behind reduced depth kitchen cabinets. This time, the ducting then runs underneath the cabinets in the plinth area to the wall vent.

BORA Basic offers the widest range of configuration options for any room layout.

BORA Basic BIA/BHA: standard exhaust air arrangements

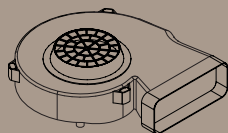


BORA Basic offers the widest range of configuration options for any room layout.

BORA universal parts:

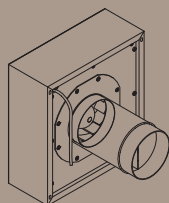
Part diversity for more quality down to the finest details

To ensure that BORA systems can be seamlessly installed, we offer parts that can be used universally to ensure optimal performance down to the smallest detail.



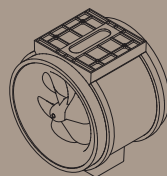
BORA ULS25 plinth fan

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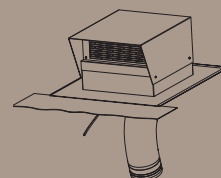
BORA ULA25 external wall fan

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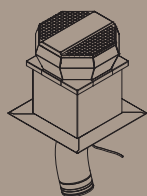
BORA ULI25 duct fan

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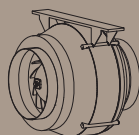
BORA ULZ25 tiled roof fan

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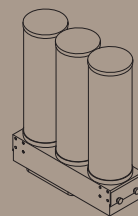
BORA ULF25 flat roof fan

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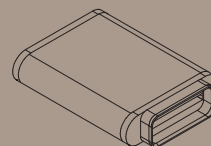
BORA ULIE20 additional duct fan

Page 93



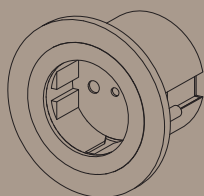
BORA UUE3 recirculation unit

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BORA UUE1 recirculation unit

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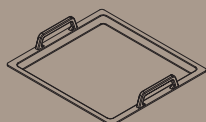
BORA USTD1 socket

From page 96



BORA UDB25 sealing tape

From page 97



BORA UGPC1/UGPI1 grill pan for HiLight and induction cooktops

From page 98

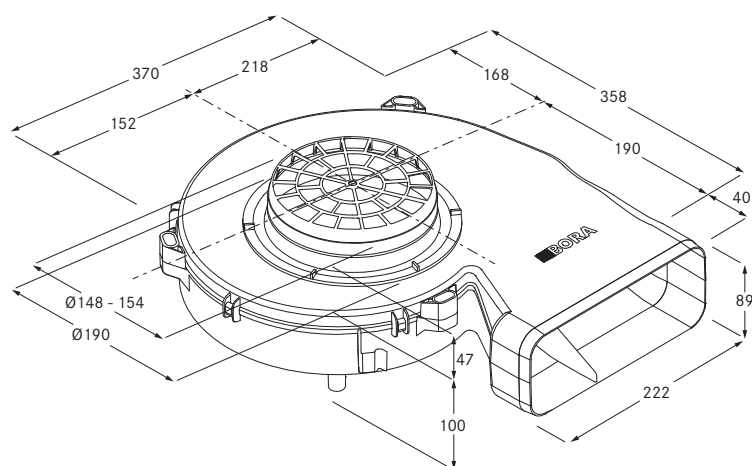
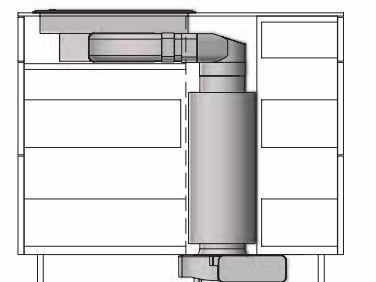


BORA HIW1 induction wok

From page 99



BORA plinth fan



Technical data

Supply voltage	220 – 240 V
Frequency	50 Hz
Power consumption	170 W
Maximum current consumption	1.4 A
Maximum ambient temperature	50 °C
Maximum flow volume	660 m ³ /h
Maximum static pressure	608 Pa
Weight (incl. packaging)	2.85 kg
Dimensions without connection fittings (length x width x height)	370 x 358 x 100 mm
Housing material	Plastic
Connection cable	0.6 m
Connection on the inlet side	Round duct NW 150 (Ø 148 – 154 mm)
Connection on the outlet side	Naber Compair® flow 150

Scope of delivery

- BORA ULS25 plinth fan
- Operating and installation instructions
- 2 m EPDM sealing tape

Accessories

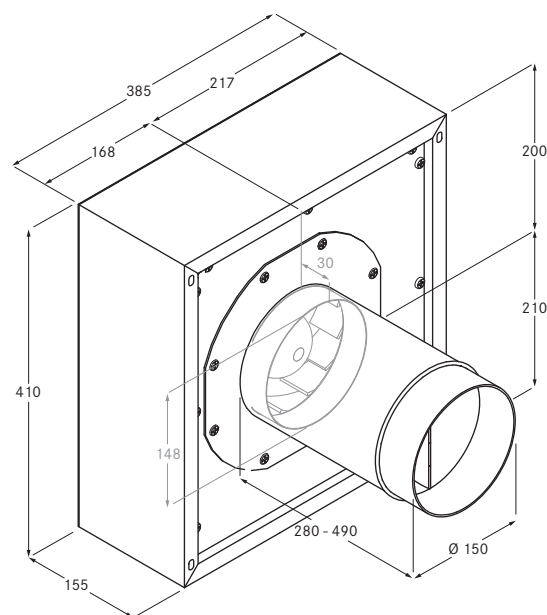
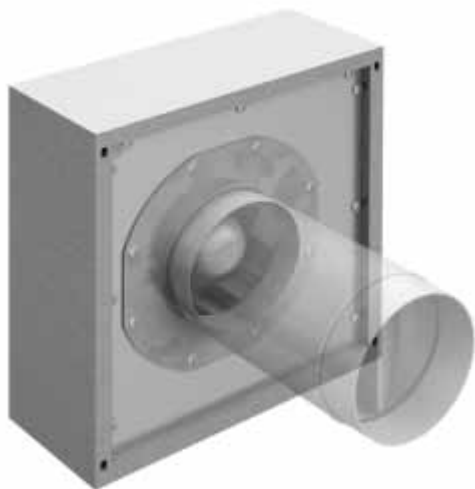
(can be ordered separately)

- Universal extension of UVNLE10 mains cable EC 10 m
- Universal extension of UVSLE10 control line EC 10 m

Product description

- For horizontal installation in the plinth area, floor structure or hanging from the basement ceiling
- Highest energy efficiency class and low energy consumption (EC technology)
- Freely adjustable power control
- Minimal operating noise thanks to integrated sound insulation and optimised fan geometry
- Compact spiral geometry
- Functional and light plastic housing
- Rubberised device feet
- Integrated mounting points for ceiling assembly
- Removable inlet nozzle for plinth height from 100 mm
- Duct connections with integrated seal
- The fan is designed for use with the BORA cooktop extractors PL540E and CKASE
- In case of an exhaust channel of more than 6 m in length or significant pressure losses, the plinth fan can be supplemented with an additional BORA fan module.

BORA external wall fan



Technical data

Supply voltage	220 - 240 V
Frequency	50 Hz
Power consumption	149 W
Maximum current consumption	1.26 A
Maximum ambient temperature	70 °C
Maximum flow volume	1080 m ³ /h
Maximum static pressure	530 Pa
Weight (incl. packaging)	16.5 kg
Dimensions (width x depth x height)	385 x 155 x 410 mm
Housing material	Stainless steel
Connection cable	10 m
Duct connection dimensions	Ø150 mm

Scope of delivery

- ULA25 external wall fan
- Telescopic installation duct with integrated non-return valve
- Air repelling rail
- Installation instructions

Accessories

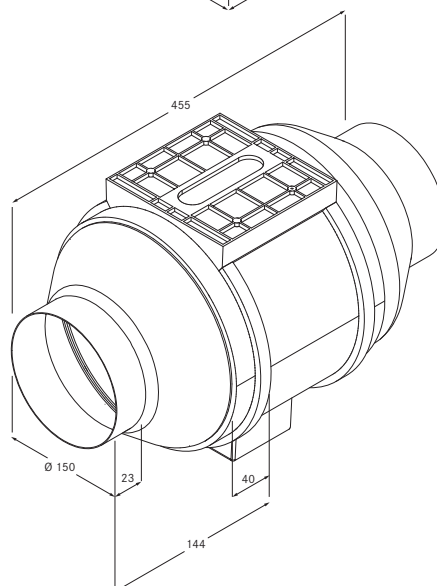
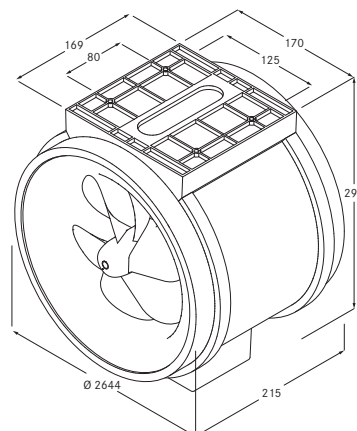
(can be ordered separately)

- Universal extension of UVNLE10 mains cable EC 10 m
- Universal extension of UVSLE10 control line EC 10 m

Product description

- For installation on the outside of the building
- Highest energy efficiency class and low energy consumption (EC technology)
- Freely adjustable power control
- Integrated sound insulation
- Suitable for wall thicknesses of 280 to 490 mm
- A KG duct with Ø 200 mm should be preinstalled in the external wall
- Air outlet downward
- Fixing elements are to be available at the installation site
- The fan is designed for use with the BORA cooktop extractor PL540E
- With an exhaust channel of more than 6 m in length or in case of significant pressure losses, the external wall fan can be supplemented with an additional BORA fan module
- If there are two fan modules in an air duct system, a minimum clearance of 3 m must be maintained between these

BORA duct fan



Technical data

Supply voltage	220 - 240 V
Frequency	50 Hz
Power consumption	304 W
Maximum current consumption	2.1 A
Maximum ambient temperature	45 °C
Maximum flow volume	2175 m³/h
Maximum static pressure	770 Pa
Weight (incl. packaging)	6.0 kg
Dimensions (width x depth x height)	215 x 264 x 299 mm
Housing material	Plastic
Connection cable	10 m
Duct connection dimensions	Without reduction Ø 250 mm With reduction Ø 150 mm

Product description

- For installation in a round duct system with a diameter of Ø250 mm or Ø150 mm with use of a duct reducer
- Highest energy efficiency class and low energy consumption (EC technology)
- Freely adjustable power control
- The terminal box can be turned to the desired position
- Fixing elements are to be available at the installation site
- The installation fixing plate is integrated
- The fan is designed for use with the BORA cooktop extractor PL540E
- In case of an exhaust channel of more than 6 m in length or significant pressure losses, the

duct fan can be supplemented with an additional BORA fan module.

- If there are two fan modules in an air duct system, a minimum clearance of 3 m must be maintained between these

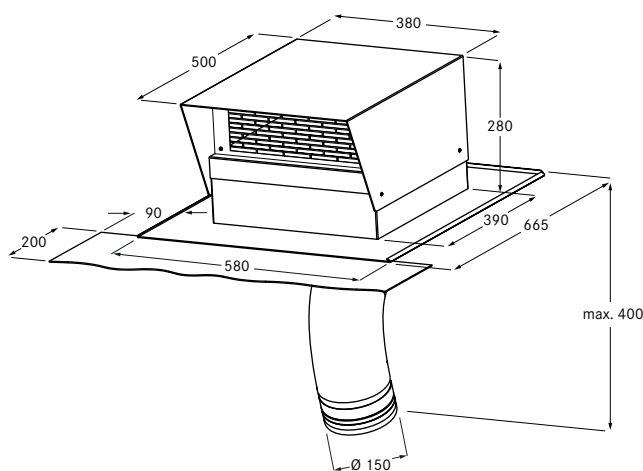
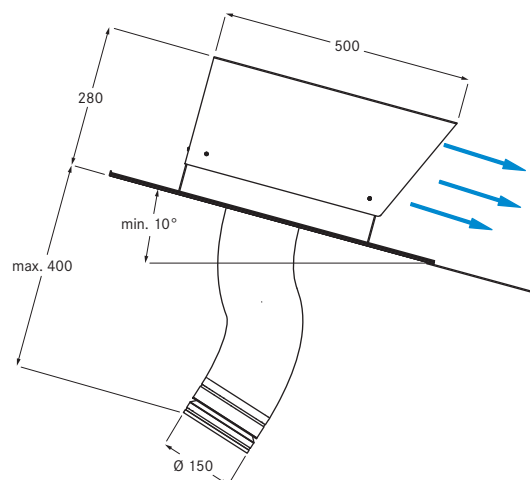
Scope of delivery

- BORA ULI25 duct fan
- Installation instructions

Accessories (can be ordered separately)

- Duct reducer 250-150 ULIRR15 (x 2)
- Universal extension of UVNLE10 mains cable EC 10 m
- Universal extension of UVSLE10 control line EC 10 m

BORA tiled roof fan



Technical data

Supply voltage	220 - 240 V
Frequency	50 Hz
Power consumption	206 W
Maximum current consumption	1.66 A
Maximum ambient temperature	70 °C
Maximum flow volume	1210 m ³ /h
Maximum static pressure	650 Pa
Weight (incl. packaging)	16.5 kg
Dimensions without surface-mounted plate (width x depth x height)	380 x 500 x 280 mm
Housing material	Stainless steel
Connection cable	10 m
Duct connection dimensions	Ø150 mm

Product description

- For installation on a tiled roof with a roof slope of at least 10°
- Highest energy efficiency class and low energy consumption (EC technology)
- Freely adjustable power control
- Integrated sound insulation
- The fully flexible fabric tube on the fan can be stretched by a maximum of 400 mm from the surface-mounted plate to the inner side of the building.
- Air outlet downward
- A condensation separator must be installed if applicable
- Fixing elements are to be available at the installation site
- The fan is designed for use with the BORA cooktop extractor PL540E

- In case of an exhaust channel of more than 6 m in length or significant pressure losses, the tiled roof fan can be supplemented with an additional BORA fan module.
- If there are two fan modules in an air duct system, a minimum clearance of 3 m must be maintained between these

Scope of delivery

- BORA ULZ25 tiled roof fan
- Fabric tube with non-return valve
- Installation instructions

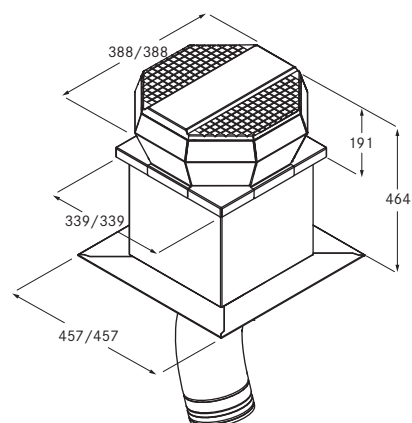
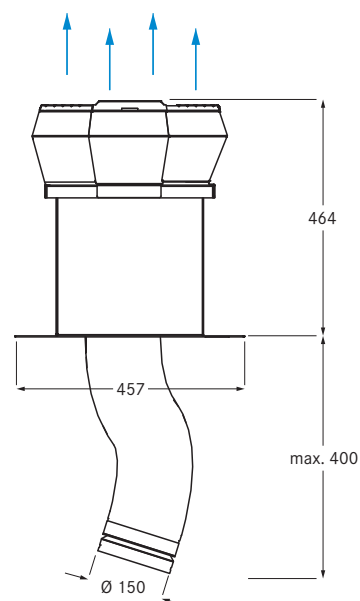
Accessories (can be ordered separately)

- Universal extension of UVNLE10 mains cable EC 10 m
- Universal extension of UVSLE10 control line EC 10 m

ULF25



BORA flat roof fan



Technical data

Supply voltage	220 - 240 V
Frequency	50 Hz
Power consumption	179 W
Maximum current consumption	1.5 A
Maximum ambient temperature	70 °C
Maximum flow volume	1200 m ³ /h
Maximum static pressure	570 Pa
Weight (incl. accessories/package)	16.5 kg
Dimensions without surface-mounted plate (width x depth x height)	339 x 339 x 464 mm
Housing material	Stainless steel
Connection cable	10 m
Duct connection dimensions	Ø 150 mm

Product description

- For installation on a flat roof
- Highest energy efficiency class and low energy consumption (EC technology)
- Freely adjustable power control
- The fully flexible fabric tube on the fan can be stretched by a maximum of 400 mm from the surface-mounted plate to the inner side of the building.
- Air outlet upward
- A condensation separator must be installed if applicable
- Fixing elements are to be available at the installation site
- The fan is designed for use with the BORA cooktop extractor PL540E
- In case of an exhaust channel of more than 6 m in length or

significant pressure losses, the flat roof fan can be supplemented with additional BORA fan modules.

- If there are two fan modules in an air duct system, a minimum clearance of 3 m must be maintained between these

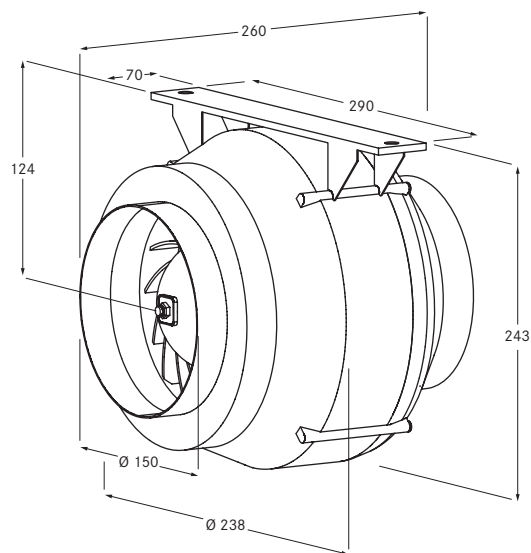
Scope of delivery

- BORA ULF25 flat roof fan
- Fabric tube with non-return valve
- Installation instructions

Accessories (can be ordered separately)

- Universal extension of UVNLE10 mains cable EC 10 m
- Universal extension of UVSLE10 control line EC 10 m

BORA additional duct fan



Technical data

Supply voltage	220 - 240 V
Frequency	50 Hz
Power consumption	124 W
Maximum current consumption	0.6 A
Max. ambient temperature	55 °C
Maximum flow volume	770 m ³ /h
Maximum static pressure	420 Pa
Weight (incl. packaging)	4.5 kg
Dimensions (length x height)	260 x 243 mm Ø 238 mm
Housing material	Galvanised plastic/metal
Connection cable	10 m
Duct connection dimensions	Ø 150 mm

Product description

- For installation in a round duct system with a diameter of Ø 150
- Can be installed as an additional fan for a BORA fan module
- The fan is designed for use with the BORA cooktop extractors PL540E and CKASE
- Fixing elements are to be available at the installation site
- Mounting bracket: bore hole for fixing nut Ø 9 mm
- If there are two fan modules in an air duct system, a minimum clearance of 3 m must be maintained between these

Scope of delivery

- BORA ULIE20 additional duct fan
- Mounting bracket
- Installation instructions

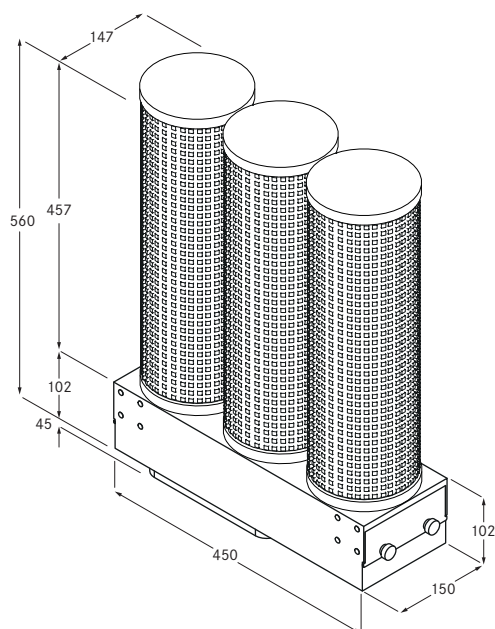
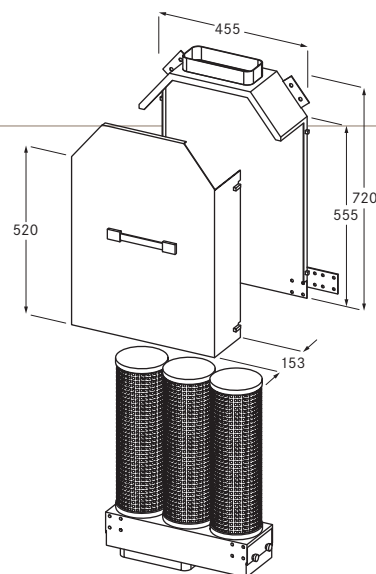
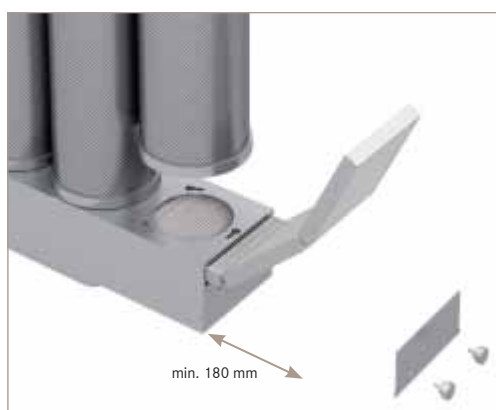
Accessories (can be ordered separately)

- Universal extension of UVNLE10 mains cable 10 m

UUE3



BORA recirculation unit



Technical data	
Activated charcoal granulate volume	12 litres (= 8.5 kg)
Outflow	0.5 m/s
Material activated charcoal filter, plinth, air recirculation hood	Galvanised metal
Dimensions (width x depth x height)	
Recirculation unit with plinth	450x150x605 mm
Air recirculation hood	455x153x720 mm
Shallow duct connection (exterior dimensions)	222x89 mm
Weight (incl. accessories/packageging)	11.5 kg
Service life	Approx. 2 years

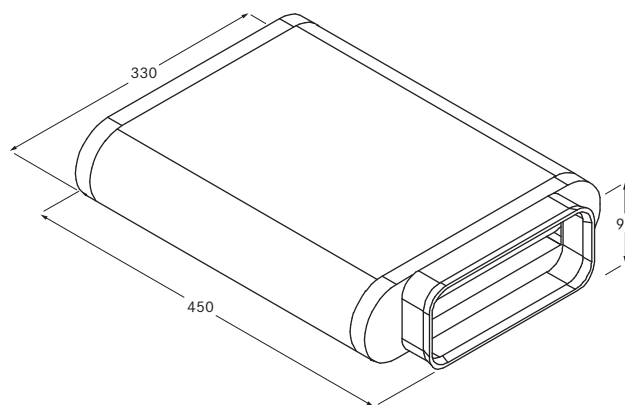
Product description
■ To clean the air in the building
■ Filter change without tools
■ Connection designed for the plinth fan or duct system Naber Compair® flow 150
■ Include revision option in plans
■ Ensure a minimum return flow aperture of 500 cm ² (e.g. plinth overlay or slatted plinth)

Scope of delivery
■ Plinth recirculation unit
■ Mounting bracket
■ 3 activated charcoal filter cartridges
■ Fine filter
■ Operating and installation instructions

Accessories (can be ordered separately)
■ UUEAS filter set (3 activated charcoal filter cartridges, 1 fine filter)
■ UUEAP0 activated charcoal filter cartridge (x 1)
■ UUEF3 fine filter
■ Air recirculation hood UUERH0

Important planning instructions
Clearance of at least 2 cm is required to replace filter cartridges.

BORA recirculation unit



Technical data	
Activated charcoal foam	1.0 kg
Outflow	Approx. 0.5 m/s
Material	
Housing	Plastic
filter	Fine filter non-woven material Activated charcoal foam
Dimensions (width x depth x height) (with connection fittings)	330x450x94 mm
Shallow duct connection (internal dimensions)	222x89 mm
Weight (incl. packaging)	2 kg
Service life	Approx. 1 year

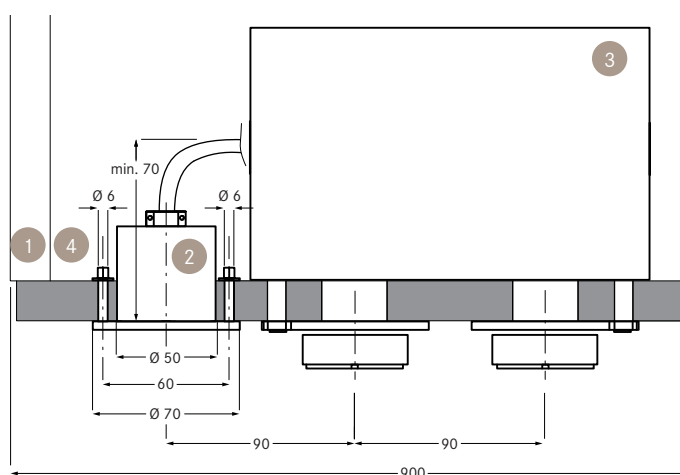
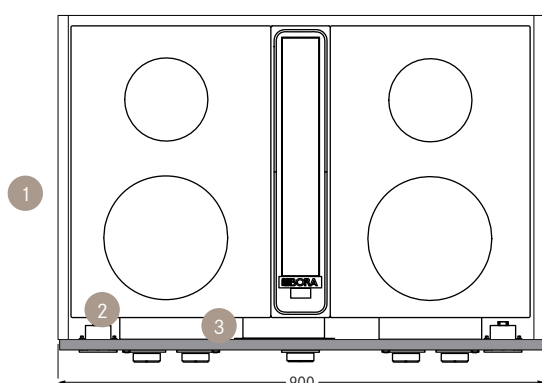
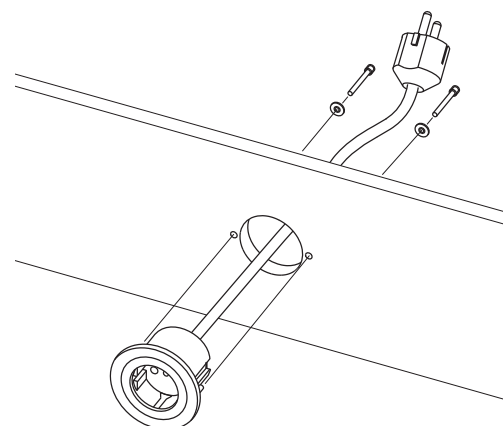
Product description
■ To clean the air in the building
■ Diverse installation options thanks to low space requirement
■ Simple handling during installation and replacement
■ Connection designed for the plinth fan or duct system Naber Compair® flow 150
■ Include revision option in plans
■ Ensure a minimum return flow aperture of 500 cm ² (e.g. plinth overlay or slatted plinth)

Scope of delivery
■ UUE1 recirculation unit
■ Operating and installation instructions
Important planning instructions
Clearance of at least 4 cm is required to replace the recirculation unit.

USTD1



BORA socket



Technical data

Supply voltage	220 - 240 V
Maximum rated power	16 A
Length of connection cable	1.0 m
Dimensions of trim ring	
Diameter	70 mm
Thickness	4 mm
Weight (incl. accessories/package)	0.4 kg

Product description

- Trim ring made from brushed stainless steel
- Matt black plastic socket
- For practically connecting electrical domestic appliances
- Only for furniture installation in kitchen units with front thicknesses of 13 to 36 mm

Scope of delivery

- USTD1 socket
- Screw set for attachment
- Drilling template
- Connection cable with type F (EU) plug



- 1 Kitchen unit 900 mm wide
- 2 BORA socket USTD1
- 3 Control box for BORA Professional cooktops
- 4 The front cover attachment may have to be adjusted to make it possible to install the socket.

BORA sealing tape



Technical data

Dimensions (width x length)	60 mm x 25 m
Weight (incl. packaging)	0.7 kg

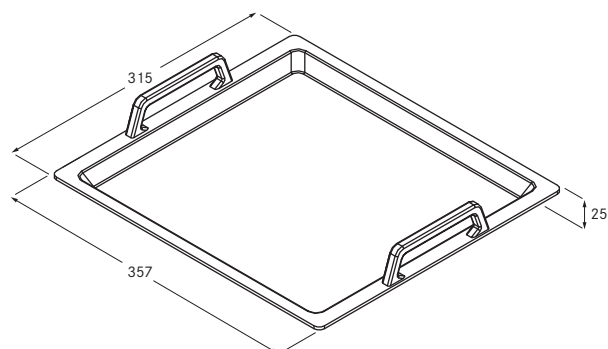
Product description

- Can be used universally for airtight sealing
- Consists of reinforced special foil on a polyethylene base
- Solvent-free adhesive
- The base surfaces to be adhered must be free of dust and grease
- Apply the adhesive tape without straining, tension or creasing
- Smooth out the adhesive tape after application
- Recommended application temperature: + 6 °C to + 35 °C
- Storage time: 12 months

UGPC1/UGPI1



BORA grill pan for HiLight and induction cooktops



Technical data

Dimensions (width x depth x height) 315 x 357 x 25 mm

(excl. handles)

Material: Pan Aluminium
Surface DURIT-Resist™ coating

Weight (incl. packaging) 2.5 kg

Product description

- Optimum temperature distribution thanks to aluminium cast
- Durable, food-compliant DURIT-Resist™ coating
- Also suitable for steam ovens thanks to gastronomic dimensions (2/3)

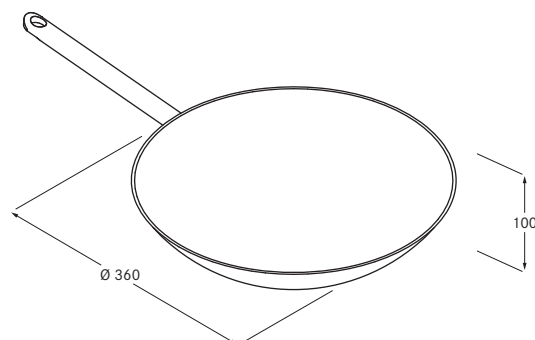
Scope of delivery

- UGPC1: non-induction grill pan for HiLight glass ceramic cooktops or
- UGPI1: induction grill pan for induction glass ceramic cooktops

Note

The BORA grill pan UGPI1 is only intended for use with induction cooktops in the BORA Professional and BORA Classic series.

BORA induction wok



Technical data

Dimensions	Ø 360 mm	
Material:	Pan	Multi-layered material up to the edge with special alloy
	Surface	Silvinox®
	Handle	Stainless steel

Product description

- Ideal heat distribution
- ControllInduc® technology restricts the maximum temperature to 250°C
- Round base

Scope of delivery

- HIW1: induction wok for induction glass ceramic wok cooktop

Note

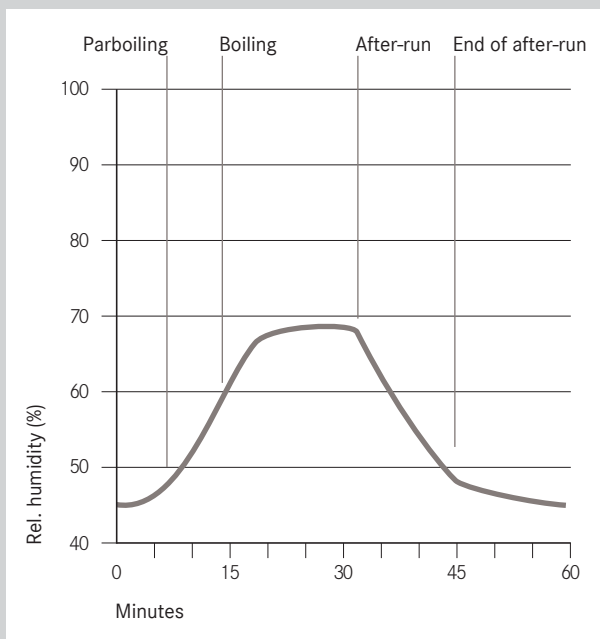
The BORA induction wok is only intended for use with the induction glass ceramic wok cooktop in the BORA Professional and BORA Classic series.

Cooking in recirculation mode

Humidity when cooking in recirculation mode

Test:

30 min intensive boiling of 1.8 l water



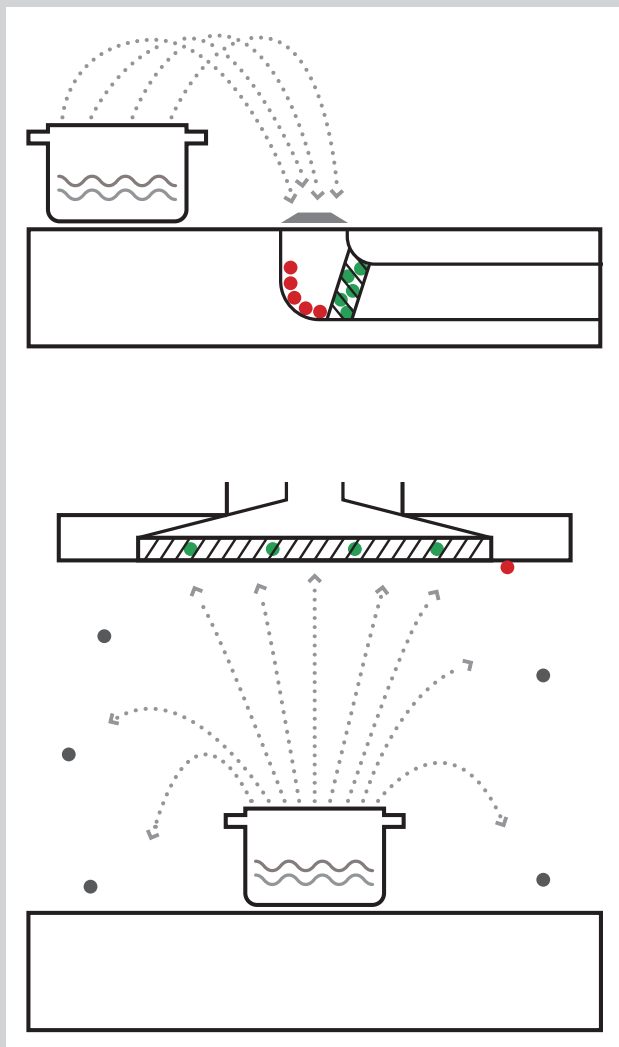
The key points for optimum performance of the activated charcoal filter:

- Ensure sufficient ventilation (e.g. open window). The cooking session stops the room from getting cold despite the window being open.
- The cooktop and filter are optimally tailored to one another. The BORA cooktop extractors therefore have an automatic after-run, guarantee the optimum performance of the recirculation filter and increase the filter service life.
- Normal cooking sessions cannot lead to mould formation. If the indoor environment is kept within the limits of what feels comfortable, the critical level of 80% rel. humidity for potential moisture damage to furniture or furniture parts will not be exceeded.
- When professionally installed, the BORA cooktop extractor in recirculation mode will not cause an increase in humidity inside the adjacent kitchen units.

BORA activated charcoal filters are characterised by sophisticated, state-of-the-art technology. Odour molecules are effectively trapped and destroyed.

Grease filtering level

Grease filtering level acc. to the DIN/EN standard for the energy labels



- Water
- Oil/grease
- Grease intercepted by the grease filter
- Grease settled in front of the grease filter (lowers the grease filtering level)
- Grease that is not trapped (not considered when calculating the grease filtering level)

Test procedure

- The grease filtering level refers to the amount of grease particles that are trapped by the grease filter and other removable or washable components. This amount is compared to the total amount of particles suctioned in by the cooktop extractor/ extractor hood. For BORA products, the level is 95% – some extractor hoods only achieve half this.
- This level does not consider the amount of grease particles not trapped by extractor hoods at all. The discrepancy therefore arises between a high capture rate and the grease filtering level – which results from the fact that the test procedure for extractor hoods was developed.
- The grease that settles in front of the filter in BORA Professional and BORA Classic appliances is easily removed by a cloth. However, this is not relevant for the standard as only removable components are rated.
- In everyday use with BORA, this means: air, hair, clothes and surfaces remain clean.
- Incidentally, BORA Basic complies with standards thanks to the removable housing base and also achieves a high grease filtering level according to standards.

BORA grease filtering level

$$= \frac{10 \text{ (green dots)}}{10 \text{ (green dots)} + 1 \text{ (red dot)}} \%$$

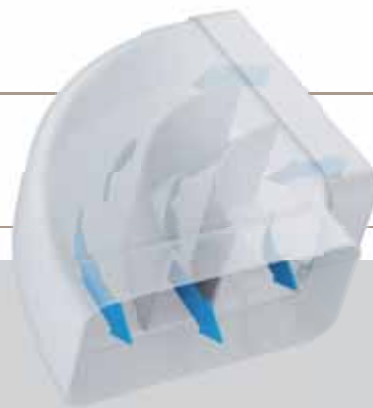
Grease filtering level of a conventional extractor hood

$$= \frac{5 \text{ (green dots)}}{5 \text{ (green dots)} + 5 \text{ (red dots)}} \%$$

Thanks to sophisticated extraction technology and the latest filter technology, BORA offers far more comfort and convenience when cooking. The stainless steel grease filters used are compact, simple to remove and easy to clean in a dishwasher.

Exhaust ducting

Basic principles for optimal design



To minimise performance losses, the duct connections must be sealed in an air-tight manner. Use of BORA sealing tape UDB25 is recommended.



Naber F-RBH90
BORA HFRBH90



Naber F-RBV90
BORA HFRBV90



Naber R-RBV90
BORA HRRBV



Naber F-VRO
BORA HFVRO



Naber F-EST
BORA HFEST



Naber F-UR
BORA HFUR



Naber F-RBH15
BORA HFRBH15

Ø 150 mm $\triangleq$ 176 cm²



Ø 125 mm $\triangleq$ 123 cm²



Necessary minimum cross-section: to expel the suctioned air quantities without major losses, each component must have a minimum cross-section of 176 cm².

An appropriate duct system must be used.

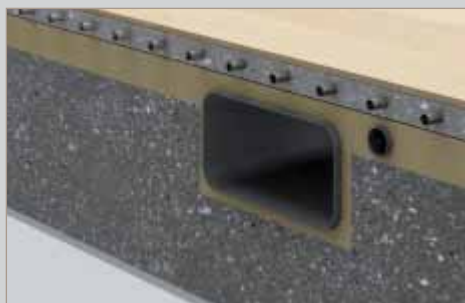
The solutions provided by Naber have proven to be particularly effective for exhaust ducting. The connections on the BORA products have been designed for the Naber Compair® flow 150 system. Integrated guide bodies are used to keep pressure loss and turbulence very low.



Shallow duct on floor covering



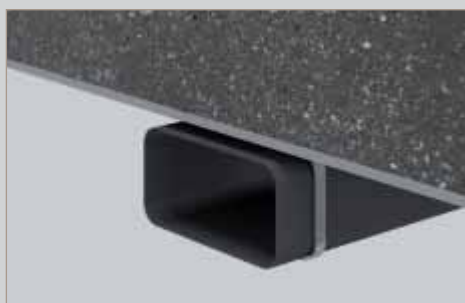
Shallow duct in the reinforced concrete floor



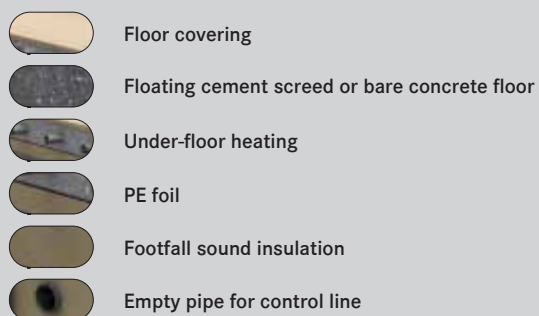
Shallow duct in the footfall sound insulation and reinforced concrete floor



Shallow duct in the footfall sound insulation



Shallow duct on the ceiling

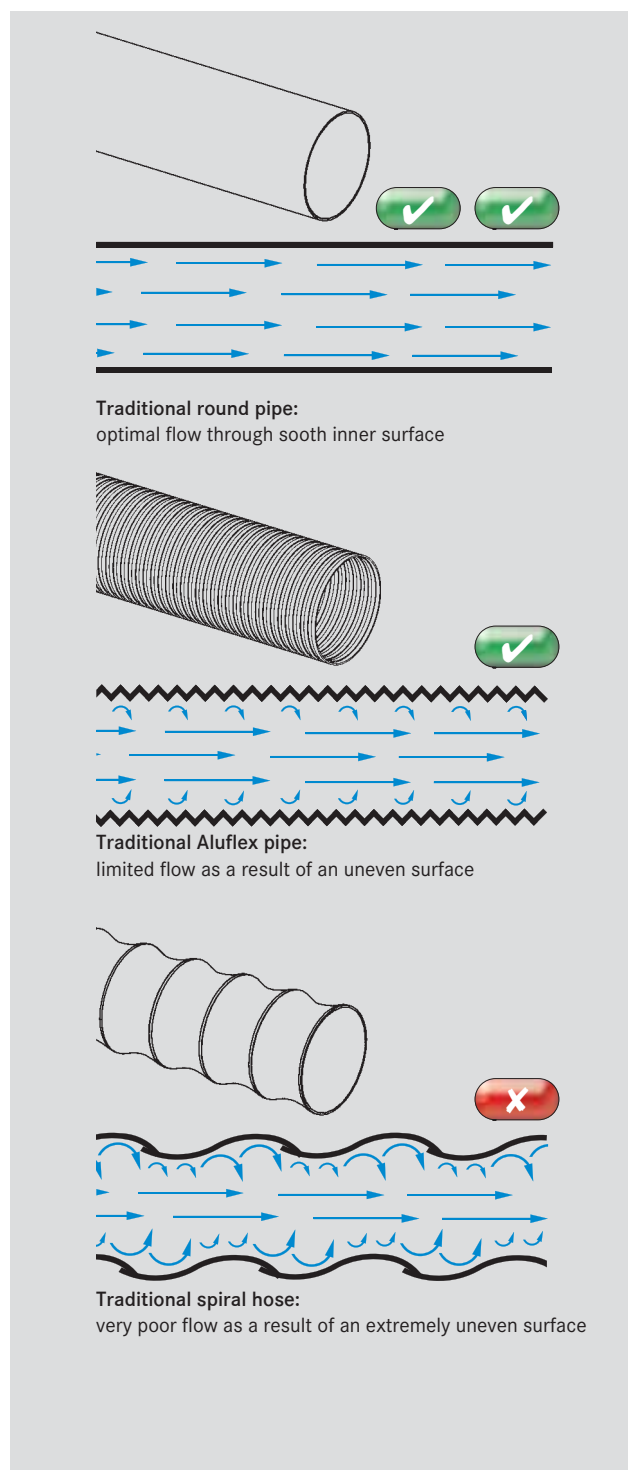
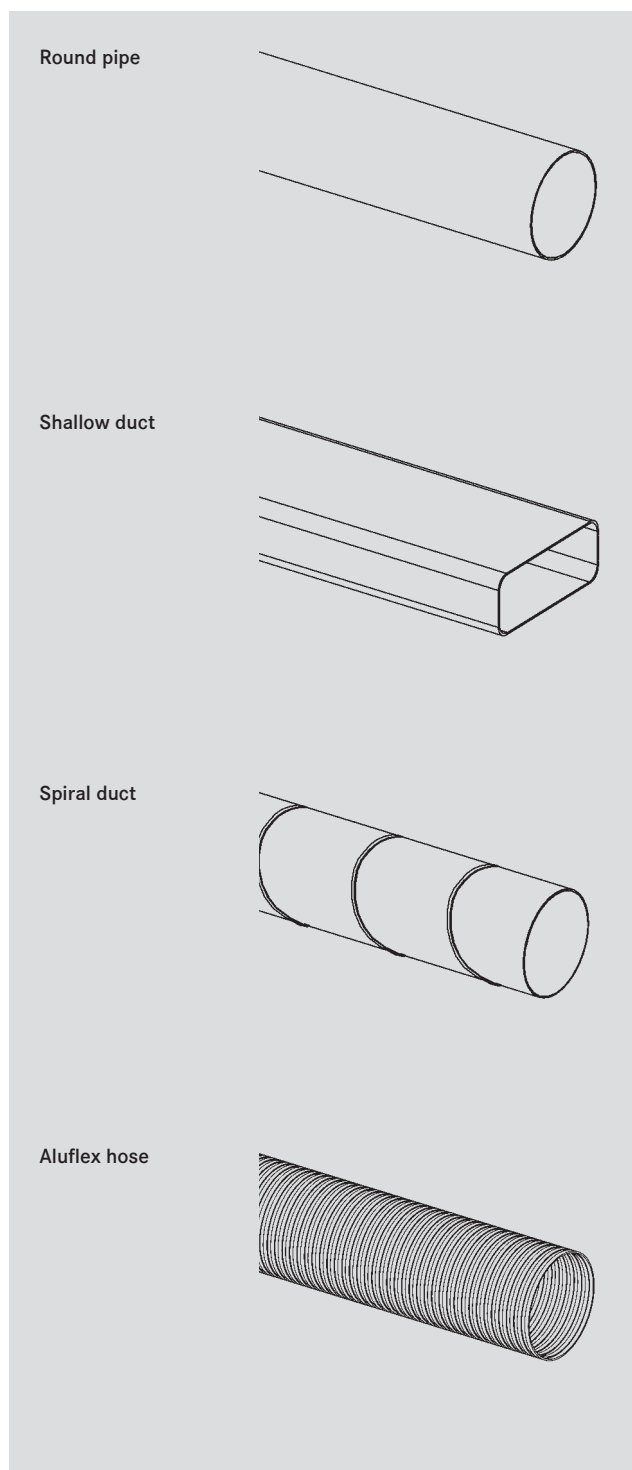


The exhaust ducting can be installed in various ways. In general, a solution is selected within the plinth area of the kitchen. If the exhaust ducting is integrated into the flooring, it may have to be reinforced with floating cement screed. The technical and legal construction feasibility should be clarified in advance with the architect, structural engineer or relevant trade professionals.

Pipes and ducts

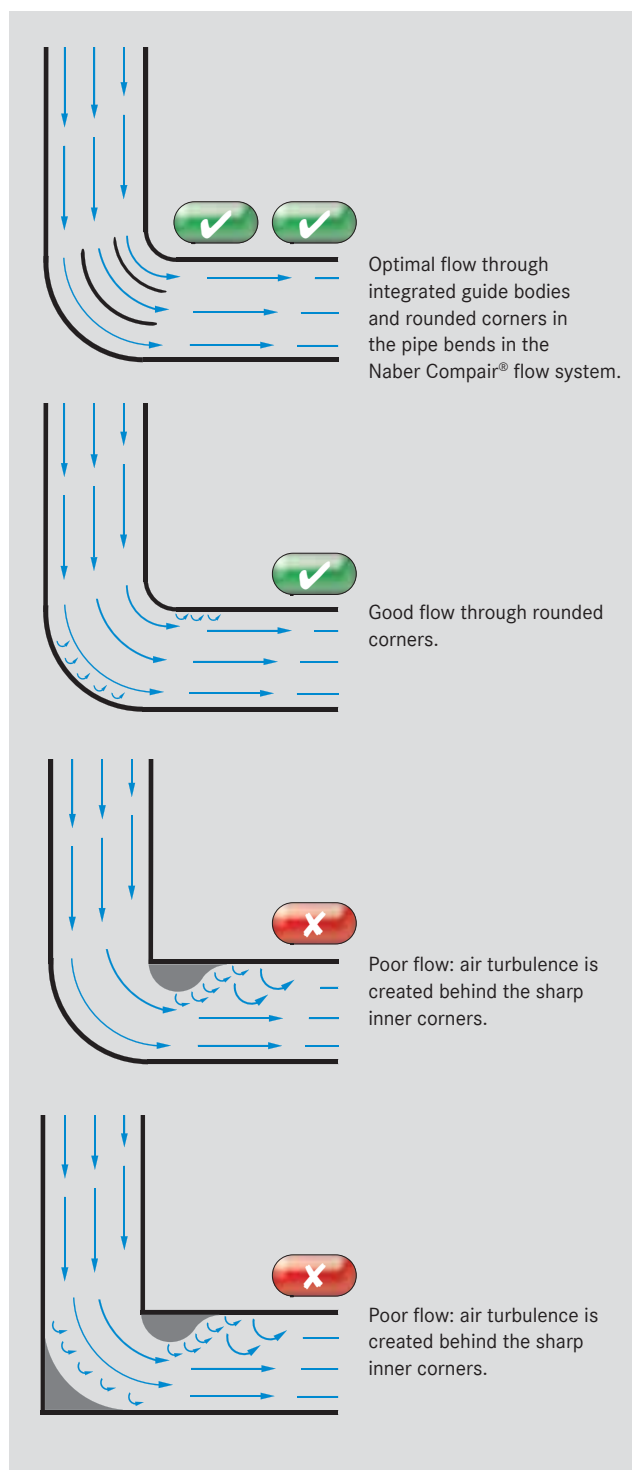
Pipe types

Optimal flow on pipe inner surfaces

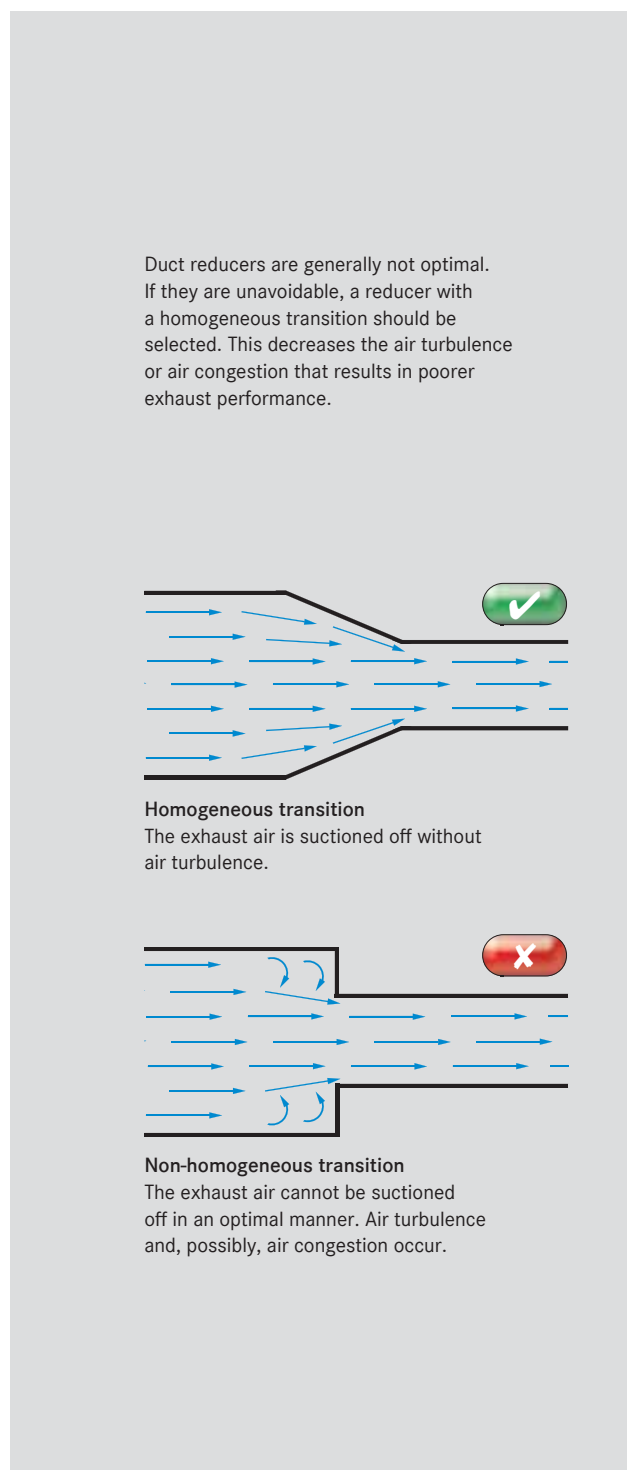


In addition to the Naber Compair® flow system, you can also use conventional pipe systems. Please ensure that the minimum duct diameter of 150 mm (= 176 cm²) is adhered to. In principle, an exhaust channel of up to 6 m can be implemented with one fan module. In case of longer exhaust channels, larger duct cross-sections are recommended, e.g. with a diameter of 180 or 200 mm.

Bends



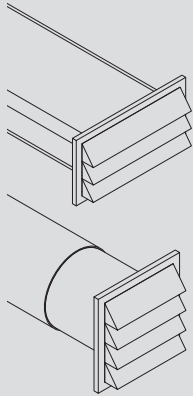
Duct reducers



Pipes and pipe bends should be tailored to each other – as in the Naber Compair® flow system. Its pipe bend results in optimal draw-off performance as a result of special integrated guide bodies and rounded corners. If you use another duct system, please observe our tips on flow behaviour in pipe bends.

Wall sleeves

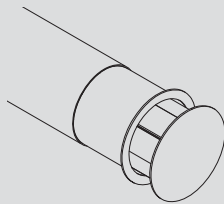
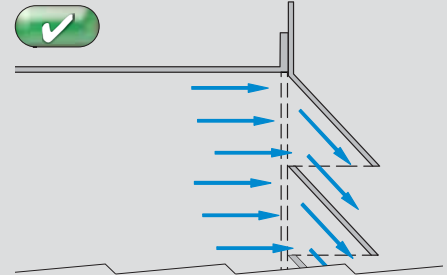
Effective performance down to the last component



BORA only guarantees optimal functionality when specified and installed using Naber Compairflow 150 ducting, along with Naber wall vents.

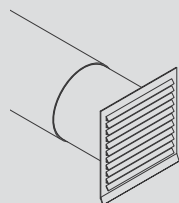
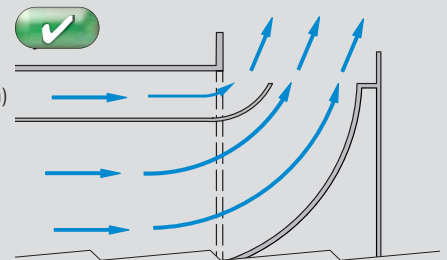
e.g. Naber E-Jal Flow 150 (with shallow duct connection)
 e.g. Naber Klima E-150 (with round pipe connection)
 e.g. Naber Klima E-flow 150 (with shallow duct connection)

The large slats in the Naber wall sleeves ensure optimal conditions for air to escape. The cross-section does not decrease and no air turbulence is created.

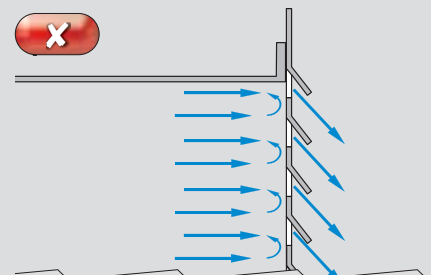


e.g. Naber Flow Star GTS 150 (with round pipe connection)
 e.g. Naber Flow Star GTS 150 F (with shallow duct connection)

The Naber Flow Star operates on a mechanical spring, using the air pressure to open the vent only when necessary. This vent is particularly useful when the distance from finished floor level to the underside of the vent is less than 200 mm.

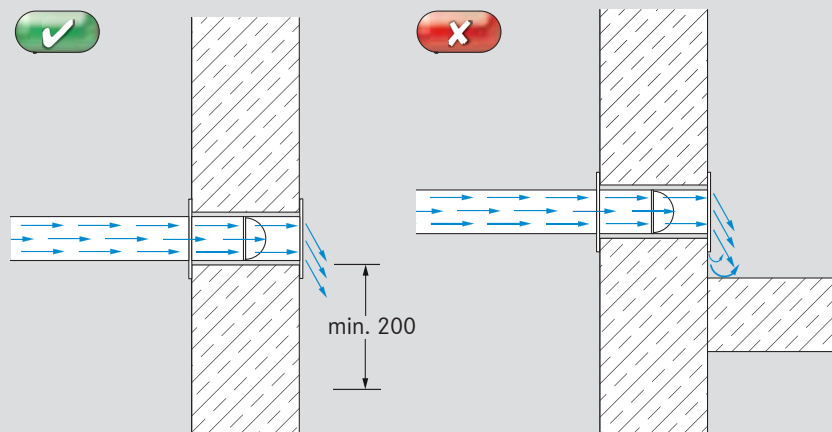


Wall vents with many slats in the slatted grid reduce exhaust performance. Severe air turbulence and a high level of congestion is created upon impact with the vertical surfaces. The result: a significant deterioration in performance.



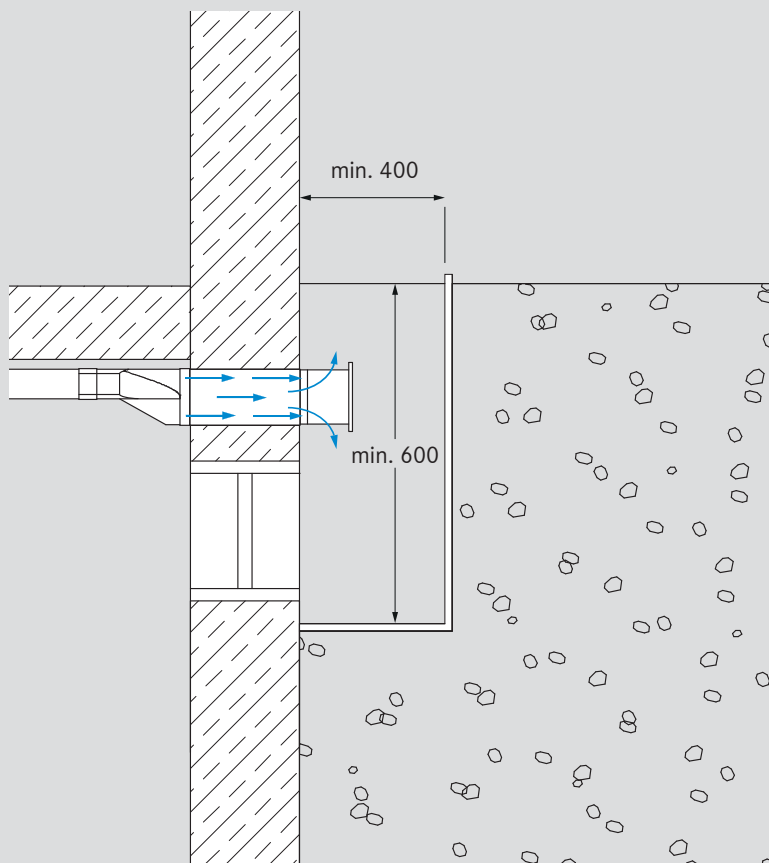
The selection of the wall sleeve is also important for the functioning of the system as a whole. In principle: the more slats and slat supports that are in the way of the air, the greater the reduction in the exhaust performance. Here too, the wall vents by Naber have been proven to work optimally in conjunction with the BORA cooktop extractors. Many of the wall vents available on the market guarantee a tight closing of the building. If you use a wall sleeve with an external wall blind without a non-return valve, you must install this separately.

Minimum clearance



When positioning the wall vent, ensure that there is sufficient clearance from the floor. A minimum of 200 mm should be provided if the wall vent blows out downward.

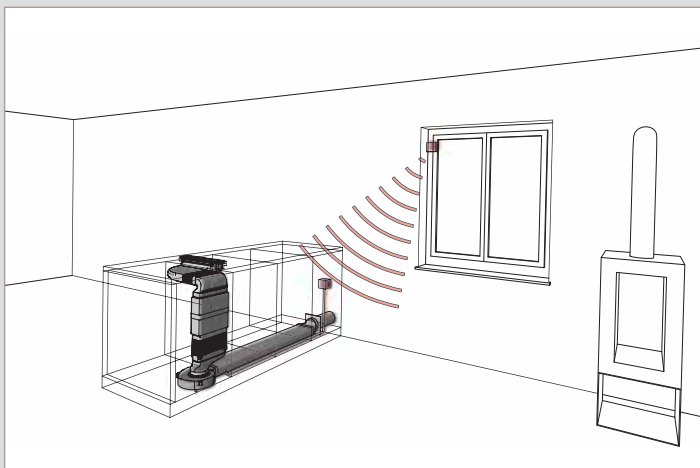
If the clearance from the floor is too low, as in the diagram on the left, air congestion that will be detrimental to performance will occur.



In this example, the air is fed into a cellar shaft. Sufficient clearance must also be ensured here.

Operation with flues

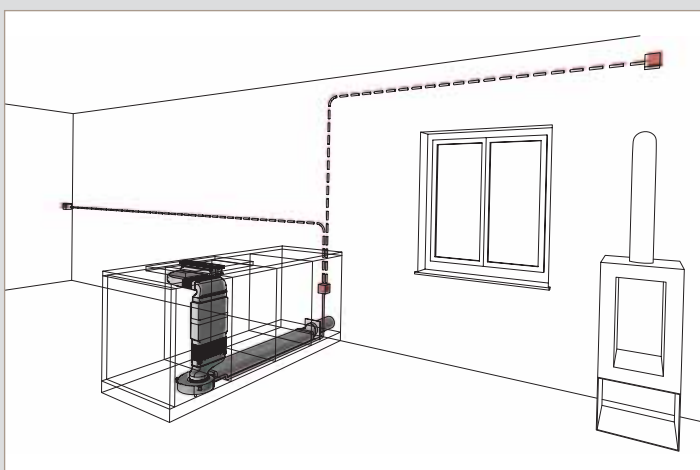
Simultaneous exhaust mode with flues: Window contact switch | Low pressure monitors



Window contact switch*

With a window contact switch, you can ensure a sufficient supply of fresh air into the kitchen. A wireless solenoid switch is attached to a window in the kitchen (= transmitter). In order to prevent a decrease in pressure in the room, the vapour extraction system can only be operated if the window is open.

When selecting the window contact switch, please ensure that the product has the necessary permissions. Window contact switches are suitable for BORA Professional, BORA Classic and BORA Basic.



Low-pressure monitor*

This monitors the pressure difference between a room with a fireplace that depends on the air in the room and the outside pressure. An air hose is laid from the monitor to the room in which the fireplace is installed. Another hose leads to the exterior of the building. The device compares the air pressure conditions and if the permitted pressure difference is exceeded turns on the vapour extraction system if applicable.

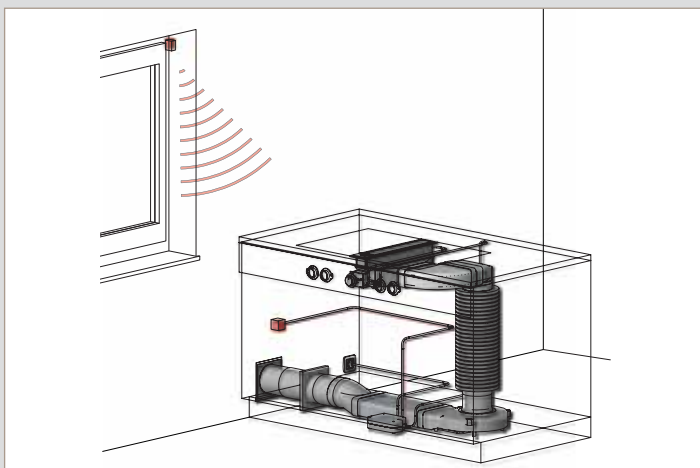
When selecting the low-pressure monitor, please ensure that the product has the necessary permissions. Low-pressure monitors are suitable for BORA Professional, BORA Classic and BORA Basic.

If an exhaust system is installed and operated, this suctions the room air outside and creates negative pressure in the building. If a fireplace that depends on the air in the room is in the direct vicinity, safe burning must be ensured. If the pressure conditions become distorted, insufficient burning occurs. Nitrogen oxide collects in the room, which may pose a risk to animals and people. The maximum permitted pressure difference is -4 Pascal, which may be exceeded during operation for a maximum of 190 seconds. This problem can be resolved with a window contact switch or a low-pressure monitor.

* Please note: a local heating engineer must give an expert opinion on whether the simultaneous operation of a fireplace that is dependent on room air and a vapour extraction system is permissible and approve this use. Kitchen exhaust vapours must not be fed into a flue duct or chimney. If a flue duct or chimney is no longer in operation, you must obtain the approval of a local heating engineer before using this for kitchen exhaust vapours.

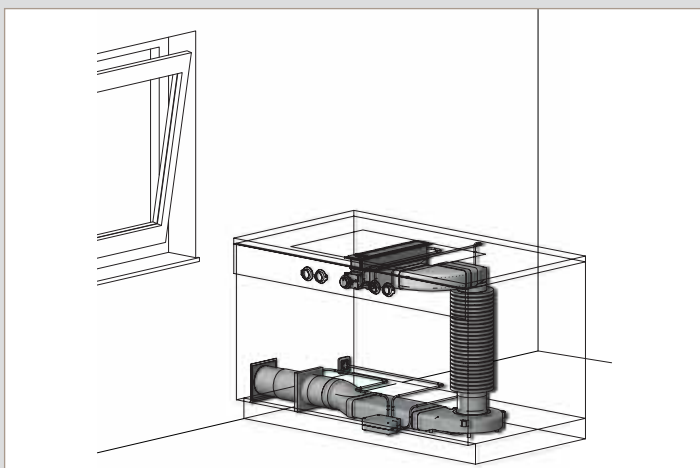
External switch contacts

Interface for external devices: Home In | Home Out



Home In

The 'Home In' contact can be used for external safety devices, e.g. window contact switches or low-pressure monitors. These switch off the cooktop extractor if the window is closed or negative pressure is detected in the room. The cooktop extractor only works if the contact is closed. This ensures safety at all times – even if no-one is in the room.



Home Out

The 'Home Out' contact is the interface that can be used to switch external devices on and off at the same time as the cooktop extractor. These can include, e.g. electrically opening wall sleeves, ventilation technology, home control systems and other devices. The potential-free contact can be used extremely flexibly as a switch for the broadest range of devices and systems. This makes it easy to meet individual customer requirements.

The BORA cooktop extractors PL540E, CKASE and BORA Basic with surface induction cooktops BFIA/BFIU are equipped with interfaces for external devices. These Home In/Home Out interfaces make it possible to simply and conveniently connect external safety devices and systems without additional effort. Multiple kitchen and exhaust air technologies can therefore be easily controlled.

Assembly information

Safety clearances

Minimum clearance of 50 mm from worktop cut-out to a neighbouring piece of furniture or furniture wall.

1. Minimum clearance of 50 mm from the left and right of the worktop cut-out to the adjacent cabinet or wall. Minimum clearance of 300 mm is recommended for ergonomic reasons and efficient cooktop extraction.
2. Minimum clearance of 50 mm at the back from of the worktop cut-out to the rear edge of the worktop.
3. Minimum clearance of 700 mm between the worktop and the wall unit.







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