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
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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.

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

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

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.

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

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

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

From page 12
From page 14
From page 88
From page 22
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

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

From page 106

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

From page 94
PL540E

BORA cooktop extractor
### Technical data

<table>
<thead>
<tr>
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<td>Power levels</td>
<td>1 - 9, freely adjustable</td>
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### 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

### 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

### Scope of delivery

- PL540E cooktop extractor (cooktop extractor, stainless steel grease filter, rotating mechanism, cover flap)
- PLSKSE 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
BORA surface induction glass ceramic cooktop with 2 cooking zones

Technical data

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<td>3700 W</td>
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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

- PFI11 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)

- PKV10 100 cm cable extension
- UGP11 grill pan
BORA induction glass ceramic cooktop with 2 cooking zones

Technical data

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<td>Maximum power rating</td>
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<td>Minimum fuse protection</td>
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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
- PI52 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

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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
**PC32**

**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)**: 370 x 540 x 50 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

### Accessories (can be ordered separately)

- PCV10 100 cm cable extension

### 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
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
- 290x165 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
**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

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<td>2-ring rear cooking zone</td>
<td>800 / 1900 W</td>
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<td>Ø 120 / 200 mm</td>
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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 | 1 x 0.5 A
Power control | Freely adjustable
Weight (incl. accessories/packaging) | 12.4 kg
Surface material | SCHOTT CERAN®
Power supply cable | 1.5 m
Dimensions (width x depth x height)
Cooktop | 370 x 540 x 47 mm
Pan support | 370 x 540 x 42 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!

Scope of delivery

- PG11 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

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 PGL80
PT 11

BORA Tepan stainless steel grill with 2 cooking zones

Technical data

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<td>60 – 250 °C</td>
</tr>
<tr>
<td>Power supply cable</td>
<td>1.5 m</td>
</tr>
<tr>
<td>Dimensions (width x depth x height)</td>
<td>370 x 540 x 68 mm</td>
</tr>
<tr>
<td>Front cooking surface</td>
<td>2400 W</td>
</tr>
<tr>
<td>Rear cooking surface</td>
<td>2400 W</td>
</tr>
<tr>
<td>300 x 235 mm</td>
<td></td>
</tr>
</tbody>
</table>

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
- PTTS 1 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
## Technical data

<table>
<thead>
<tr>
<th>PSD050 duct silencer</th>
<th>PSD100 duct silencer</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dimensions</strong></td>
<td><strong>Dimensions</strong></td>
</tr>
<tr>
<td>External duct</td>
<td>External duct</td>
</tr>
<tr>
<td>Ø 210 mm</td>
<td>Ø 210 mm</td>
</tr>
<tr>
<td>Internal duct</td>
<td>Internal duct</td>
</tr>
<tr>
<td>Ø 150 mm</td>
<td>Ø 150 mm</td>
</tr>
<tr>
<td>Overall length</td>
<td>Overall length</td>
</tr>
<tr>
<td>595 mm</td>
<td>1095 mm</td>
</tr>
<tr>
<td>Insulating layer thickness</td>
<td>Insulating layer thickness</td>
</tr>
<tr>
<td>25 mm</td>
<td>25 mm</td>
</tr>
</tbody>
</table>

## Product description

- **For acoustically decoupling the components**
- Reduction of the sound pressure level by approx. 10 dB(A)
Energy efficiency

PL540E

Professional PL540E
Product description
Professional cooktop extractor system with UL525 plinth fan

<table>
<thead>
<tr>
<th>Operating mode</th>
<th>Exhaust air</th>
</tr>
</thead>
<tbody>
<tr>
<td>Energy consumption</td>
<td>Value</td>
</tr>
<tr>
<td>Annual energy consumption ($AEC_{\text{std}}$)</td>
<td>26 kW/a</td>
</tr>
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<td>Energy efficiency class</td>
<td>A+</td>
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<tr>
<td>Flow volume</td>
<td></td>
</tr>
<tr>
<td>Fluid dynamic efficiency ($FDE_{\text{std}}$)</td>
<td>39.4</td>
</tr>
<tr>
<td>Fluid dynamic efficiency class</td>
<td>A</td>
</tr>
<tr>
<td>Lighting</td>
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</tr>
<tr>
<td>Lighting efficiency ($LE_{\text{std}}$)</td>
<td>* lx/Watt</td>
</tr>
<tr>
<td>Lighting efficiency class</td>
<td>*</td>
</tr>
<tr>
<td>Grease filtering</td>
<td></td>
</tr>
<tr>
<td>Level 9 maximum ($GFE_{\text{std}}$)</td>
<td>50 %</td>
</tr>
<tr>
<td>Class level 9 normal</td>
<td>F</td>
</tr>
<tr>
<td>Flow volume</td>
<td></td>
</tr>
<tr>
<td>Air flow level 1 minimum</td>
<td>232 m³/h</td>
</tr>
<tr>
<td>Air flow level 9 maximal ($Q_{\text{max}}$)</td>
<td>626 m³/h</td>
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<tr>
<td>Sound power level</td>
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<tr>
<td>Level 1 minimum</td>
<td>44 dB(A)</td>
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<tr>
<td>Level 9 maximum</td>
<td>67 dB(A)</td>
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<td>Sound pressure level (additional details)</td>
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<tr>
<td>Level 1 minimum</td>
<td>32 dB(A)</td>
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<tr>
<td>Level 9 maximum</td>
<td>54 dB(A)</td>
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<tr>
<td>Details according to 66/2014</td>
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</tr>
<tr>
<td>Power consumption in off mode ($P_{\text{o}}$)</td>
<td>0 W</td>
</tr>
<tr>
<td>Time increase factor</td>
<td>0.6</td>
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<tr>
<td>Energy efficiency index ($EE_{\text{std}}$)</td>
<td>32</td>
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<tr>
<td>Air flow rate at the best efficiency point ($Q_{\text{max}}$)</td>
<td>297 m³/h</td>
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<tr>
<td>Pressure at the best efficiency point ($P_{\text{max}}$)</td>
<td>548 Pa</td>
</tr>
<tr>
<td>Electric power input at the best efficiency point ($W_{\text{max}}$)</td>
<td>114.7 W</td>
</tr>
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</table>

* 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**

![Diagram of cut-out dimensions]

<table>
<thead>
<tr>
<th>Cooktops/cooktop extractor</th>
<th>A/B in mm</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1/0</td>
</tr>
<tr>
<td></td>
<td>2/0</td>
</tr>
<tr>
<td></td>
<td>3/0</td>
</tr>
<tr>
<td></td>
<td>1/1</td>
</tr>
<tr>
<td></td>
<td>2/1</td>
</tr>
<tr>
<td></td>
<td>3/2</td>
</tr>
<tr>
<td></td>
<td>4/2</td>
</tr>
</tbody>
</table>

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**

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1.png" alt="Cooktops" /></td>
<td>1/0</td>
<td>346</td>
</tr>
<tr>
<td><img src="image2.png" alt="Cooktops" /></td>
<td>2/0</td>
<td>717</td>
</tr>
<tr>
<td><img src="image3.png" alt="Cooktops" /></td>
<td>3/0</td>
<td>1088</td>
</tr>
<tr>
<td><img src="image4.png" alt="Cooktops" /></td>
<td>1/1</td>
<td>457</td>
</tr>
<tr>
<td><img src="image5.png" alt="Cooktops" /></td>
<td>2/1</td>
<td>828</td>
</tr>
<tr>
<td><img src="image6.png" alt="Cooktops" /></td>
<td>3/2</td>
<td>1310</td>
</tr>
<tr>
<td><img src="image7.png" alt="Cooktops" /></td>
<td>4/2</td>
<td>1681</td>
</tr>
</tbody>
</table>

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.
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.
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.
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 ULZ25 plinth fan). A condensation separator must be installed.

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 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.

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.
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 UUE 1 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.

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
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 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 universal articles
We offer professional quality down to the smallest detail.

From page 96

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

From page 106

Recirculation
BORA recirculation unit
Efficient performance in recirculation mode for customised use in kitchen designs.

From page 94
CKASE cooktop extractor system
BORA Classic
CKASE cooktop extractor system

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

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

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/packaging): 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

Accessories (can be ordered separately)
- Cover plate CKAAB0 (x 1)
CFI11

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
- Rear induction cooking zone: 2100 W, Power setting: 3700 W
- Power supply cable: 1.5 m
- Dimensions (width x depth x height): 340 x 515 x 52 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

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supply voltage</td>
<td>220 - 240 V</td>
</tr>
<tr>
<td>Frequency</td>
<td>50 Hz</td>
</tr>
<tr>
<td>Maximum power consumption</td>
<td>3.7 kW</td>
</tr>
<tr>
<td>Maximum power rating</td>
<td>3.7 kW</td>
</tr>
<tr>
<td>Minimum fuse protection</td>
<td>1 x 16 A</td>
</tr>
<tr>
<td>Power levels</td>
<td>1 - 9</td>
</tr>
<tr>
<td>Weight (incl. accessories/packaging)</td>
<td>8 kg</td>
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<tr>
<td>Surface material</td>
<td>SCHOTT CERAN®</td>
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<tr>
<td>Power supply cable</td>
<td>1.5 m</td>
</tr>
<tr>
<td>Dimensions (width x depth x height) (connection socket component height = 18 mm)</td>
<td>340 x 515 x 56 mm</td>
</tr>
</tbody>
</table>

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

- CI11 induction glass ceramic cooktop
- Mounting straps
- Sealing tape
- Glass ceramic scraper
- Height adjustment plate set
- Operating and installation instructions
- Power supply cable

Scope of delivery

- CI11 induction glass ceramic cooktop
- Mounting straps
- Sealing tape
- Glass ceramic scraper
- Height adjustment plate set
- Operating and installation instructions
- Power supply cable
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
# Scope of delivery

- Hyper glass ceramic cooktop CCH1
- Mounting straps
- Sealing tape
- Glass ceramic scraper
- Height adjustment plate set
- Operating and installation instructions
- Power supply cable

## Technical data

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
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<tbody>
<tr>
<td>Supply voltage</td>
<td>220 – 240 V</td>
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<tr>
<td>Frequency</td>
<td>50 Hz</td>
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<tr>
<td>Maximum power consumption</td>
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<td>3.3 kW</td>
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<tr>
<td>Minimum fuse protection</td>
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<tr>
<td>Power levels</td>
<td>1 – 9</td>
</tr>
<tr>
<td>Weight (incl. accessories/packaging)</td>
<td>6.3 kg</td>
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<tr>
<td>Surface material</td>
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<tr>
<td>Power supply cable</td>
<td>1.5 m</td>
</tr>
<tr>
<td>Dimensions (width x depth x height)</td>
<td>340 x 515 x 44 mm</td>
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<td>Ø 150 mm</td>
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<tr>
<td>1-ring rear</td>
<td>2100 W</td>
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<tr>
<td>Hyper stage</td>
<td>3000 W</td>
</tr>
<tr>
<td>Ø 215 mm</td>
<td></td>
</tr>
</tbody>
</table>

## Product description

- Hyper function
- Automatic cut-off
- Stop function
- Automatic heat up function
- Warming function
- Timer function
- Residual heat display
- Childproofing feature
## BORA HiLight glass ceramic cooktop with roaster

### 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

### Technical data

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

### 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.
CG11

BORA gas glass ceramic cooktop with 2 cooking zones

Technical data

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supply voltage</td>
<td>220 – 240 V</td>
</tr>
<tr>
<td>Frequency</td>
<td>50 Hz</td>
</tr>
<tr>
<td>Maximum power consumption</td>
<td>3.8 kW</td>
</tr>
<tr>
<td>Maximum power rating</td>
<td>1.1 W</td>
</tr>
<tr>
<td>Minimum fuse protection</td>
<td>1 x 0.5 A</td>
</tr>
<tr>
<td>Power control</td>
<td>Freely adjustable</td>
</tr>
<tr>
<td>Weight (incl. accessories)</td>
<td>9.7 kg</td>
</tr>
<tr>
<td>Surface material</td>
<td>SCHOTT CERAN®</td>
</tr>
<tr>
<td>Power supply cable</td>
<td>1 m</td>
</tr>
<tr>
<td>Dimensions (width x depth x height)</td>
<td>340 x 515 x 55 mm</td>
</tr>
<tr>
<td>Cooktop</td>
<td></td>
</tr>
<tr>
<td>Pan support</td>
<td>330 x 410 x 45 mm</td>
</tr>
<tr>
<td>Front normal burner</td>
<td>Up to 1000 W</td>
</tr>
<tr>
<td>Rear high-power burner</td>
<td>Up to 2800 W</td>
</tr>
</tbody>
</table>

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 CG11 gas glass ceramic cooktops and a CKASE cooktop extractor, two CKAA0 cover plates must be additionally ordered as an air baffle.

Scope of delivery

- CG11 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/packaging): 12 kg
- Surface material: Stainless steel, brushed
- Temperature control range: 90 – 240°C
- Power supply cable: 2 m
- Dimensions (width x depth x height): 340 x 515 x 73 mm
- Cooking surface: 2800 W

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

CT1

BORA Classic
CT1 Tepan stainless steel grill
# Energy efficiency

## CKASE

### Classic CKASE

<table>
<thead>
<tr>
<th>Product description</th>
<th>CKASE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Classic cooktop extractor system with ULS25 plinth fan</td>
<td>CKASE</td>
</tr>
<tr>
<td>Operating mode</td>
<td>Exhaust air</td>
</tr>
<tr>
<td>Energy consumption Value</td>
<td>EN standard</td>
</tr>
<tr>
<td>Annual energy consumption ((\text{AEC}_\text{hood}))</td>
<td>24 kW/a</td>
</tr>
<tr>
<td>Energy efficiency class</td>
<td>A+</td>
</tr>
<tr>
<td>Flow volume</td>
<td></td>
</tr>
<tr>
<td>Fluid dynamic efficiency ((\text{FDE}_\text{hood}))</td>
<td>38.4</td>
</tr>
<tr>
<td>Fluid dynamic efficiency class</td>
<td>A</td>
</tr>
<tr>
<td>Lighting</td>
<td></td>
</tr>
<tr>
<td>Lighting efficiency ((\text{LE}_\text{hood}))</td>
<td>* lx/Watt</td>
</tr>
<tr>
<td>Lighting efficiency class</td>
<td>*</td>
</tr>
<tr>
<td>Grease filtering</td>
<td></td>
</tr>
<tr>
<td>Level 5 maximum ((\text{GFE}_\text{hood}))</td>
<td>47 %</td>
</tr>
<tr>
<td>Class level 5 normal</td>
<td>F</td>
</tr>
<tr>
<td>Flow volume</td>
<td></td>
</tr>
<tr>
<td>Air flow level 1 minimum</td>
<td>224 m³/h</td>
</tr>
<tr>
<td>Air flow level 5 maximal ((\text{Q}_{\text{max}}))</td>
<td>609 m³/h</td>
</tr>
<tr>
<td>Sound power level</td>
<td></td>
</tr>
<tr>
<td>Level 1 minimum</td>
<td>46 dB(A)</td>
</tr>
<tr>
<td>Level 5 maximum</td>
<td>67 dB(A)</td>
</tr>
<tr>
<td>Sound pressure level (additional details)</td>
<td></td>
</tr>
<tr>
<td>Level 1 minimum</td>
<td>33 dB(A)</td>
</tr>
<tr>
<td>Level 5 maximum</td>
<td>55 dB(A)</td>
</tr>
<tr>
<td>Details according to 66/2014</td>
<td></td>
</tr>
<tr>
<td>Power consumption in off mode ((P_d))</td>
<td>&lt; 0.5 W</td>
</tr>
<tr>
<td>Time increase factor</td>
<td>0.6</td>
</tr>
<tr>
<td>Energy efficiency index ((\text{EEI}_\text{hood}))</td>
<td>31.7</td>
</tr>
<tr>
<td>Air flow rate at the best efficiency point ((\text{Q}_{\text{opt}}))</td>
<td>280.8 m³/h</td>
</tr>
<tr>
<td>Pressure at the best efficiency point ((P_{\text{opt}}))</td>
<td>536 Pa</td>
</tr>
<tr>
<td>Electric power input at the best efficiency point ((W_{\text{opt}}))</td>
<td>109 W</td>
</tr>
</tbody>
</table>

* 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 Classic – flush installation

### Cut-out dimensions

**BORA Classic | Cut-out dimensions**

![Diagram showing cut-out dimensions](image)

<table>
<thead>
<tr>
<th>Cooktops/cooktop extractor</th>
<th>A/B in mm</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Cooktop" /></td>
<td>1/0</td>
</tr>
<tr>
<td><img src="image" alt="Cooktop" /></td>
<td>2/0</td>
</tr>
<tr>
<td><img src="image" alt="Cooktop" /></td>
<td>3/0</td>
</tr>
<tr>
<td><img src="image" alt="Cooktop" /></td>
<td>2/1</td>
</tr>
<tr>
<td><img src="image" alt="Cooktop" /></td>
<td>3/2</td>
</tr>
<tr>
<td><img src="image" alt="Cooktop" /></td>
<td>4/2</td>
</tr>
</tbody>
</table>

**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

<table>
<thead>
<tr>
<th>Cooktops/cooktop extractor</th>
<th>B in mm</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Cooktop 1/0" /></td>
<td>1/0</td>
</tr>
<tr>
<td><img src="image" alt="Cooktop 2/0" /></td>
<td>2/0</td>
</tr>
<tr>
<td><img src="image" alt="Cooktop 3/0" /></td>
<td>3/0</td>
</tr>
<tr>
<td><img src="image" alt="Cooktop 2/1" /></td>
<td>2/1</td>
</tr>
<tr>
<td><img src="image" alt="Cooktop 3/2" /></td>
<td>3/2</td>
</tr>
<tr>
<td><img src="image" alt="Cooktop 4/2" /></td>
<td>4/2</td>
</tr>
</tbody>
</table>

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.
Component dimensions

The detailed component dimensions will provide support during independent planning.
Standard arrangements

Standard exhaust air arrangements

Kitchen counter (minimum depth 600 mm) with vertical ducting including silencer. The entire system is housed behind a body with a truncated depth. The plinth fan and the ducting have been installed below the kitchen cupboards. The exhaust air is fed to the wall sleeve through a shallow duct.

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 UUE 1 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 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.
BORA Basic

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**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supply voltage</td>
<td>380 – 415 V 2N/3N, 220 – 240 V</td>
</tr>
<tr>
<td>Frequency</td>
<td>50 Hz</td>
</tr>
<tr>
<td>Maximum power consumption</td>
<td>7.6 kW (4.4 kW)</td>
</tr>
<tr>
<td>Fuse protection/power supply</td>
<td>3 x 16 A, 2 x 16 A, 1 x 32 A</td>
</tr>
</tbody>
</table>

- Main dimensions (width x depth x height): 830 x 515 x 198 mm (without duct connection)
- Weight (incl. accessories/packaging): Approx. 25 kg
- Surface material: SCHOTT CERAN®

**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
- BFIE 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)**: 830 x 515 x 198 mm (without duct connection).
- **Weight (incl. accessories/packaging)**: Approx. 25 kg
- **Surface material**: SCHOTT CERAN®

### Product description

- **Operation**: Touch-operated round slide control

### 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
- UD825 sealing tape
- Activated charcoal filter with ion exchanger BAKFS (x 2)

### 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

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

Technical data

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supply voltage</td>
<td>380–415 V 2N/3N, 220–240 V</td>
</tr>
<tr>
<td>Frequency</td>
<td>50 Hz</td>
</tr>
<tr>
<td>Maximum power consumption</td>
<td>7.6 kW (4.4 kW)</td>
</tr>
<tr>
<td>Fuse protection/power supply</td>
<td>3x16 A, 2x16 A, 1x32 A</td>
</tr>
<tr>
<td>Main dimensions (width x depth x height) (excl. duct connection)</td>
<td>760 x 515 x 196 mm</td>
</tr>
<tr>
<td>Weight (incl. accessories/packaging)</td>
<td>25 kg</td>
</tr>
<tr>
<td>Surface material</td>
<td>SCHOTT CERAN®</td>
</tr>
</tbody>
</table>

Cooktop

- 1-ring front induction cooking zones: 2300 W, Ø 210 mm
- 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
- BLED1 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/packaging) 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
- BLED1 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/packaging) 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
### Technical data

<table>
<thead>
<tr>
<th><strong>Supply voltage</strong></th>
<th>380-415 V 2N/3N 220 - 240 V</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Frequency</strong></td>
<td>50 Hz</td>
</tr>
<tr>
<td><strong>Maximum power consumption</strong></td>
<td>7.0 kW</td>
</tr>
<tr>
<td><strong>Fuse protection/power supply</strong></td>
<td>3 x 16 A L1, L3 N 2 x 16 A L1, L2 N 1 x 32 A L N</td>
</tr>
<tr>
<td><strong>Main dimensions (width x depth x height)</strong> (excl. duct connection)</td>
<td>760 x 515 x 196 mm</td>
</tr>
<tr>
<td><strong>Weight (incl. accessories/packaging)</strong></td>
<td>25 kg</td>
</tr>
<tr>
<td><strong>Surface material</strong></td>
<td>SCHOTT CERAN®</td>
</tr>
</tbody>
</table>

### 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
- BLED1 air inlet nozzle
- BUSA exhaust air conversion set
- UD825 sealing tape

---

**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**: 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
### BORA Basic BFIA/BFIU

#### Energy efficiency

<table>
<thead>
<tr>
<th>Basic BFIA/BFIU</th>
<th>BFIA</th>
<th>BFIU</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product description</strong></td>
<td>BFIA</td>
<td>BFIU</td>
</tr>
<tr>
<td>Surface induction glass ceramic cooktop with 4 cooking zones and integrated cooktop extractor</td>
<td>BFIA</td>
<td>BFIU</td>
</tr>
<tr>
<td><strong>Operating mode</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Energy consumption</td>
<td>Value</td>
<td>Value</td>
</tr>
<tr>
<td>Annual energy consumption (AEC\textsubscript{prod})</td>
<td>54.8 kW/a</td>
<td>51.9 kW/a</td>
</tr>
<tr>
<td>Energy efficiency class</td>
<td>B</td>
<td>*</td>
</tr>
<tr>
<td><strong>Flow volume</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fluid dynamic efficiency (FDE\textsubscript{prod})</td>
<td>23.1</td>
<td>21.0</td>
</tr>
<tr>
<td>Fluid dynamic efficiency class</td>
<td>B</td>
<td>*</td>
</tr>
<tr>
<td><strong>Lighting</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lighting efficiency (LE\textsubscript{prod})</td>
<td>* lx/Watt</td>
<td>* lx/Watt</td>
</tr>
<tr>
<td>Lighting efficiency class</td>
<td>*</td>
<td>*</td>
</tr>
<tr>
<td><strong>Grease filtering</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Level 9 maximum (GFE\textsubscript{prod})</td>
<td>91 %</td>
<td>91 %</td>
</tr>
<tr>
<td>Class level 9 normal</td>
<td>B</td>
<td>*</td>
</tr>
<tr>
<td><strong>Grease filtering (additional details)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Level P maximum (GFE\textsubscript{prod})</td>
<td>93 %</td>
<td>93 %</td>
</tr>
<tr>
<td>Class level P maximum</td>
<td>B</td>
<td>*</td>
</tr>
<tr>
<td><strong>Flow volume</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Air flow level 1 minimum</td>
<td>194.8 m\textsuperscript{3}/h</td>
<td>* m\textsuperscript{3}/h</td>
</tr>
<tr>
<td>Air flow level 9 normal</td>
<td>607.3 m\textsuperscript{3}/h</td>
<td>* m\textsuperscript{3}/h</td>
</tr>
<tr>
<td>Air flow level P maximum (Q\textsubscript{P,max})</td>
<td>697.3 m\textsuperscript{3}/h</td>
<td>658.8 m\textsuperscript{3}/h</td>
</tr>
<tr>
<td><strong>Sound power level</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Level 1 minimum</td>
<td>39.8 dB(A)</td>
<td>38.4 dB(A)</td>
</tr>
<tr>
<td>Level 9 normal</td>
<td>66.3 dB(A)</td>
<td>66.5 dB(A)</td>
</tr>
<tr>
<td>Level P maximum</td>
<td>69.6 dB(A)</td>
<td>69.7 dB(A)</td>
</tr>
<tr>
<td><strong>Sound pressure level (additional details)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Level 1 minimum</td>
<td>27.3 dB(A)</td>
<td>25.9 dB(A)</td>
</tr>
<tr>
<td>Level 9 normal</td>
<td>53.8 dB(A)</td>
<td>54.0 dB(A)</td>
</tr>
<tr>
<td>Level P maximum</td>
<td>57.1 dB(A)</td>
<td>57.2 dB(A)</td>
</tr>
<tr>
<td><strong>Details according to 66/2014</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power consumption in off mode (P\textsubscript{O})</td>
<td>&lt; 0.5 W</td>
<td>&lt; 0.5 W</td>
</tr>
<tr>
<td>Time increase factor</td>
<td>1.2</td>
<td>1.2</td>
</tr>
<tr>
<td>Energy efficiency index (EEI\textsubscript{prod})</td>
<td>65.2</td>
<td>64.5</td>
</tr>
<tr>
<td>Air flow rate at the best efficiency point (Q\textsubscript{BEP})</td>
<td>382 m\textsuperscript{3}/h</td>
<td>311.4 m\textsuperscript{3}/h</td>
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<tr>
<td>Pressure at the best efficiency point (P\textsubscript{BEP})</td>
<td>272 Pa</td>
<td>288 Pa</td>
</tr>
<tr>
<td>Electric power input at the best efficiency point (W\textsubscript{BEP})</td>
<td>125 W</td>
<td>118.5 W</td>
</tr>
</tbody>
</table>

* 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

## Product description

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

<table>
<thead>
<tr>
<th>Operating mode</th>
<th>Exhaust air</th>
<th>Recirculation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Energy consumption</td>
<td>Value</td>
<td>Value</td>
</tr>
<tr>
<td>Annual energy consumption (AEC\textsubscript{ned})</td>
<td>87.5 kW/a</td>
<td>94.2 kW/a</td>
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<tr>
<td>Energy efficiency class</td>
<td>C</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Flow volume</th>
<th>Fluid dynamic efficiency (FDE\textsubscript{ned})</th>
<th>15.7</th>
<th>13.1</th>
<th>61591</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fluid dynamic efficiency class</td>
<td>D</td>
<td>*</td>
<td>61591</td>
<td></td>
</tr>
</tbody>
</table>

## Lighting

<table>
<thead>
<tr>
<th>Lighting efficiency (LE\textsubscript{ned})</th>
<th>* lx/Watt</th>
<th>* lx/Watt</th>
<th>*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lighting efficiency class</td>
<td>*</td>
<td>*</td>
<td>*</td>
</tr>
</tbody>
</table>

## Grease filtering

<table>
<thead>
<tr>
<th>Level 2 maximum (GFE\textsubscript{ned})</th>
<th>88.5 %</th>
<th>88.5 %</th>
<th>61591</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class level 2 normal</td>
<td>B</td>
<td>*</td>
<td>61591</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Class level P maximum</th>
<th>93 %</th>
<th>93 %</th>
<th>61591</th>
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</thead>
<tbody>
<tr>
<td>Grease filtering (additional details)</td>
<td>B</td>
<td>*</td>
<td>61591</td>
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</tbody>
</table>

## Air flow volume

<table>
<thead>
<tr>
<th>Air flow level 1 minimum</th>
<th>342 m³/h</th>
<th>* m³/h</th>
<th>61591</th>
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</thead>
<tbody>
<tr>
<td>Air flow level 2 normal</td>
<td>497 m³/h</td>
<td>* m³/h</td>
<td>61591</td>
</tr>
<tr>
<td>Air flow level P maximum (Q\textsubscript{P max})</td>
<td>647 m³/h</td>
<td>624 m³/h</td>
<td>61591</td>
</tr>
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</table>

## Sound power level

<table>
<thead>
<tr>
<th>Level 1 minimum</th>
<th>55 dB(A)</th>
<th>* dB(A)</th>
<th>60704-2-13</th>
</tr>
</thead>
<tbody>
<tr>
<td>Level 2 normal</td>
<td>64 dB(A)</td>
<td>65 dB(A)</td>
<td>60704-2-13</td>
</tr>
<tr>
<td>Level 2 maximum</td>
<td>69 dB(A)</td>
<td>70 dB(A)</td>
<td>60704-2-13</td>
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</tbody>
</table>

## Sound pressure level (additional details)

<table>
<thead>
<tr>
<th>Level 1 minimum</th>
<th>43 dB(A)</th>
<th>* dB(A)</th>
<th>**</th>
</tr>
</thead>
<tbody>
<tr>
<td>Level 2 normal</td>
<td>51 dB(A)</td>
<td>53 dB(A)</td>
<td>**</td>
</tr>
<tr>
<td>Level P maximum</td>
<td>57 dB(A)</td>
<td>57 dB(A)</td>
<td>**</td>
</tr>
</tbody>
</table>

## Details according to 66/2014

<table>
<thead>
<tr>
<th>Power consumption in off mode (P\textsubscript{O})</th>
<th>&lt; 0.5 W</th>
<th>&lt; 0.5 W</th>
<th>61591</th>
</tr>
</thead>
<tbody>
<tr>
<td>Time increase factor</td>
<td>1.4</td>
<td>1.5</td>
<td>61591</td>
</tr>
<tr>
<td>Energy efficiency index (EEI\textsubscript{ned})</td>
<td>79.9</td>
<td>85.6</td>
<td>61591</td>
</tr>
<tr>
<td>Air flow rate at the best efficiency point (Q\textsubscript{BE})</td>
<td>370.8 m³/h</td>
<td>320.8 m³/h</td>
<td>61591</td>
</tr>
<tr>
<td>Pressure at the best efficiency point (P\textsubscript{BE})</td>
<td>261 Pa</td>
<td>253 Pa</td>
<td>61591</td>
</tr>
<tr>
<td>Electric power input at the best efficiency point (W\textsubscript{BE})</td>
<td>171.2 W</td>
<td>172.1 W</td>
<td>61591</td>
</tr>
</tbody>
</table>

* 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.
BORA Basic BIA/BHA/BIU/BHU: 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.
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 ø176 cm²).
7. Planning instructions for installation can be found from page 102.
8. Power socket on the front.
BORA Basic BFIU: tips for simple installation

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 BIA/BHA: 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 ø176 cm²).

Planning instructions for installation can be found from page 102.

7. Power socket on the front.
BORA Basic BIU/BHU: tips for simple installation

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.
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
  - Page 88

- BORA ULA25 external wall fan
  - Page 89

- BORA ULI25 duct fan
  - Page 90

- BORA ULD25 external wall fan
  - Page 91

- BORA ULF25 flat roof fan
  - Page 92

- BORA ULIE20 additional duct fan
  - Page 93

- BORA UUE3 recirculation unit
  - Page 94

- BORA ULZ25 tiled roof fan
  - Page 95

- 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 m³/h
- Maximum static pressure: 608 Pa
- Weight (incl. packaging): 2.85 kg
- Dimensions without connection fittings: 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

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.

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
**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 m³/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: Ø 150 mm

**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

**Scope of delivery**

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

**Accessories**

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

Product description

■ For installation in a round duct system with a diameter of 250 mm or 150 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

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

<table>
<thead>
<tr>
<th>Without reduction</th>
<th>Ø 250 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>With reduction</td>
<td>Ø 150 mm</td>
</tr>
</tbody>
</table>
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 m³/h
Maximum static pressure 650 Pa
Weight (incl. packaging) 16.5 kg
Dimensions without surface-mounted plate 380 x 500 x 280 mm
Housing material Stainless steel
Connection cable 10 m
Duct connection dimensions Ø 150 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
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 m³/h
- Maximum static pressure: 570 Pa
- Weight (incl. accessories/packaging): 16.5 kg
- Dimensions without surface-mounted plate: 339 x 339 x 464 mm (width x depth x height)
- 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
**ULIE20**

**BORA additional duct fan**

---

**Technical data**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supply voltage</td>
<td>220 – 240 V</td>
</tr>
<tr>
<td>Frequency</td>
<td>50 Hz</td>
</tr>
<tr>
<td>Power consumption</td>
<td>124 W</td>
</tr>
<tr>
<td>Maximum current consumption</td>
<td>0.6 A</td>
</tr>
<tr>
<td>Max. ambient temperature</td>
<td>55 °C</td>
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<tr>
<td>Maximum flow volume</td>
<td>770 m³/h</td>
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<tr>
<td>Maximum static pressure</td>
<td>420 Pa</td>
</tr>
<tr>
<td>Weight (incl. packaging)</td>
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</tr>
<tr>
<td>Dimensions (length x height)</td>
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</tr>
<tr>
<td></td>
<td>Ø 238 mm</td>
</tr>
<tr>
<td>Housing material</td>
<td>Galvanised plastic/metal</td>
</tr>
<tr>
<td>Connection cable</td>
<td>10 m</td>
</tr>
<tr>
<td>Duct connection dimensions</td>
<td>Ø 150 mm</td>
</tr>
</tbody>
</table>

**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

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**Technical data**

- *Activated charcoal granulate volume*: 12 litres (= 8.5 kg)
- *Outflow*: 0.5 m/s
- Material: activated charcoal filter, plinth, air recirculation hood
- *Dimensions (width x depth x height)*:
  - Recirculation unit with plinth: 450 x 150 x 605 mm
  - Air recirculation hood: 455 x 153 x 720 mm
  - Shallow duct connection (exterior dimensions): 222 x 89 mm
- *Weight (incl. accessories/packaging)*: 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 cm² (e.g. plinth overlay or slatted plinth)

**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.
## 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 cm² (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.

## Technical data

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Activated charcoal foam</td>
<td>1.0 kg</td>
</tr>
<tr>
<td>Outflow</td>
<td>Approx. 0.5 m/s</td>
</tr>
<tr>
<td>Material Housing</td>
<td>Plastic</td>
</tr>
<tr>
<td>filter</td>
<td>Fine filter non-woven material Activated charcoal foam</td>
</tr>
<tr>
<td>Dimensions (width x depth x height) (with connection fittings)</td>
<td>330 x 450 x 94 mm</td>
</tr>
<tr>
<td>Shallow duct connection (internal dimensions)</td>
<td>222 x 89 mm</td>
</tr>
<tr>
<td>Weight (incl. packaging)</td>
<td>2 kg</td>
</tr>
<tr>
<td>Service life</td>
<td>Approx. 1 year</td>
</tr>
</tbody>
</table>

## Measurements

- Width: 330 mm
- Depth: 450 mm
- Height: 94 mm
- Aperture: 500 cm²
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/packaging): 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.
UDB25

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
# BORA grill pan for HiLight and induction cooktops

![BORA grill pan](image)

## Technical data

<table>
<thead>
<tr>
<th>Dimension (width x depth x height) (excl. handles)</th>
<th>315 x 357 x 25 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material: Pan</td>
<td>Aluminium</td>
</tr>
<tr>
<td>Surface</td>
<td>DURIT-Resist™ coating</td>
</tr>
<tr>
<td>Weight (incl. packaging)</td>
<td>2.5 kg</td>
</tr>
</tbody>
</table>

## 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)

## Note

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

## Scope of delivery

- UGPC1: non-induction grill pan for HiLight glass ceramic cooktops or
- UGPI1: induction grill pan for induction glass ceramic cooktops
HIW1

BORA induction wok

Technical data

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Ø 360 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material:</td>
<td>Pan</td>
</tr>
<tr>
<td></td>
<td>Multi-layered material up to the edge with special alloy</td>
</tr>
<tr>
<td>Surface</td>
<td>Silvinox®</td>
</tr>
<tr>
<td>Handle</td>
<td>Stainless steel</td>
</tr>
</tbody>
</table>

Product description

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

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.

Scope of delivery

- HIW1: induction wok for induction glass ceramic wok cooktop
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**

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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

\[
\text{BORA grease filtering level} = \frac{\text{Grease intercepted by the grease filter}}{\text{Grease settled in front of the grease filter}} \times 100\%
\]

Grease filtering level of a conventional extractor hood

\[
\text{Grease filtering level of a conventional extractor hood} = \frac{\text{Grease that is not trapped}}{\text{Grease that is not trapped}} \times 100\%
\]

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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

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.
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.
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

Optimal flow through integrated guide bodies and rounded corners in the pipe bends in the Naber Compair® flow system.

Good flow through rounded corners.

Poor flow: air turbulence is created behind the sharp inner corners.

Duct reducers

Duct reducers are generally not optimal. If they are unavoidable, a reducer with a homogeneous transition should be selected. This decreases the air turbulence or air congestion that results in poorer exhaust performance.

Homogeneous transition
The exhaust air is suctioned off without air turbulence.

Non-homogeneous transition
The exhaust air cannot be suctioned off in an optimal manner. Air turbulence and, possibly, air congestion occur.

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

BORAnly 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.

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

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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.

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 contract 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.
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.