



Designer-style chimney hoods
KD/KDEM/KDUM 9700.0/9800.0

Designer-style island hoods
IKD/IKDEM/IKDUM 10700.0/10800.0

Service Manual: H5-60-69-01

| | | |
|--------------|-------------------------------|----------------------------|
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1. Safety



Danger!

Repairs may only be carried out by a qualified electrician! Inexpert repairs may lead to risks and damages for the user!

To prevent electric shocks, please observe the following tips:

- In the event of faults, housing and frame may be live!
- Touching live components inside the appliance may cause dangerous currents to flow through your body!
- Prior to repairs, disconnect the appliance from the mains!
- When inspecting live parts, a residual current operated device must be used at all times!
- The ground wire resistance must not exceed that specified in the standard! It is of vital importance for ensuring the safety of people and the functioning of the appliance.
- On completion of repairs, an inspection must be carried out in accordance with VDE 0701 [Association of German Electrical Engineers] or the corresponding regulations for your country!



Caution!

Make sure you observe the following instructions:

- The appliances must be disconnected from the mains prior to all repairs. If inspections must be carried out on live appliances, make sure you use a residual current operated device.



Sharp edges: Use protective gloves.



Components may be electrostatic!
Observe handling precautions!

2. General technical information

On installing the cooker hood, the following points are to be observed in addition to currently-valid safety instructions and the respective instructions of your country:

1. The cooker hood must always be installed above the centre of the hob.
2. The clearance may not be smaller than that stipulated for instalment.

The minimum clearance between electric hobs and the lower edge of the hood is 650 mm.

Installing the cooker hood above a gas cooker with a minimum clearance of 750 mm is permissible only if the following nominal heat input levels (HS) are not exceeded:

Gas cookers

| | |
|---|-------------|
| Input level of an individual cooking zone | max. 3.0 kW |
| Input level of all of the cooking zones | max. 8.3 kW |
| Oven input level | max. 3.9 kW |

Gas hobs

| | |
|---|--------------|
| Input level of an individual cooking zone | max. 3.9 kW |
| Input level of all of the cooking zones | max. 11.3 kW |

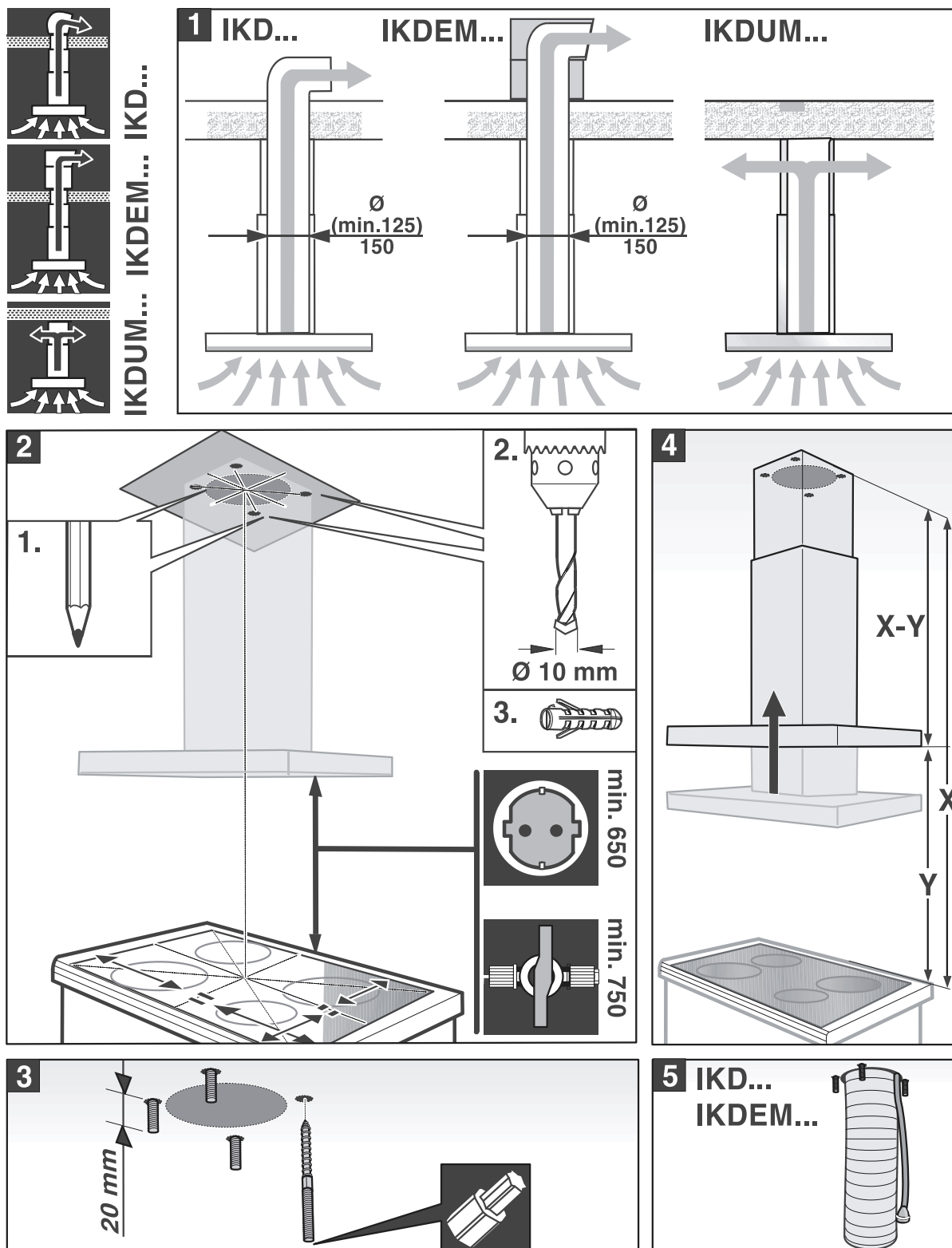
Glass ceramic gas hob

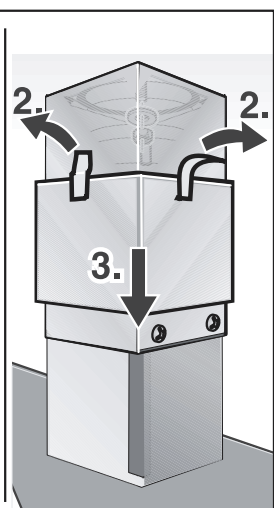
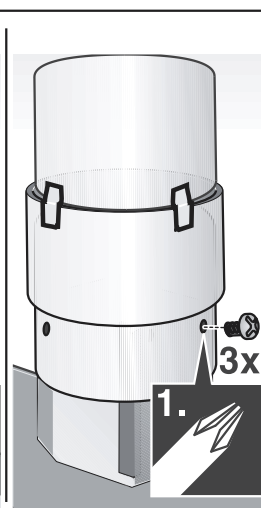
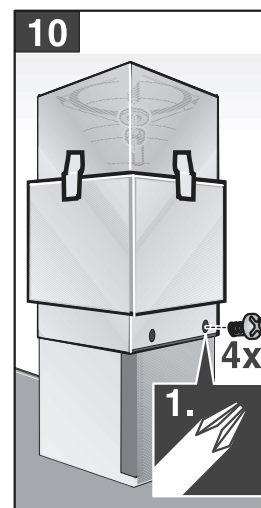
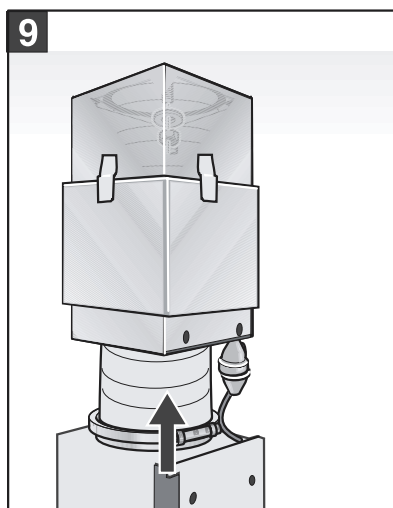
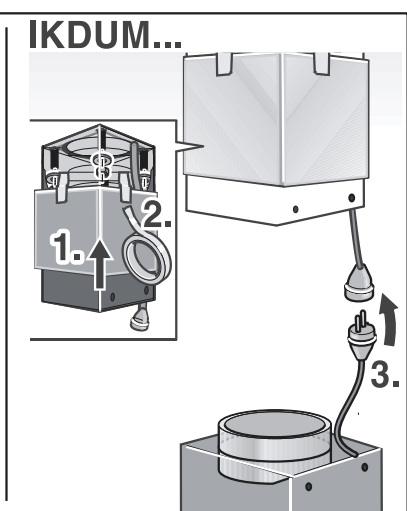
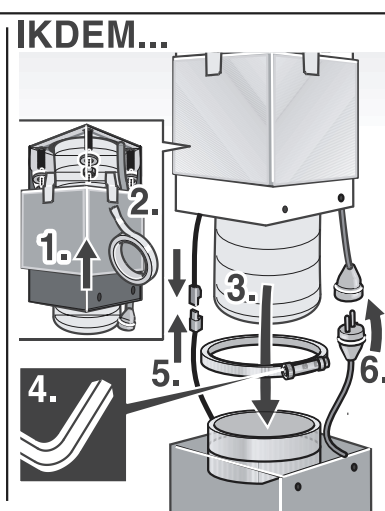
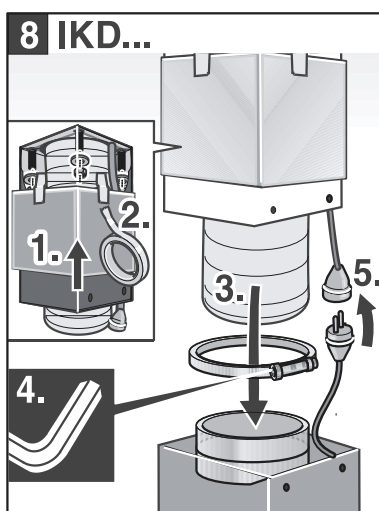
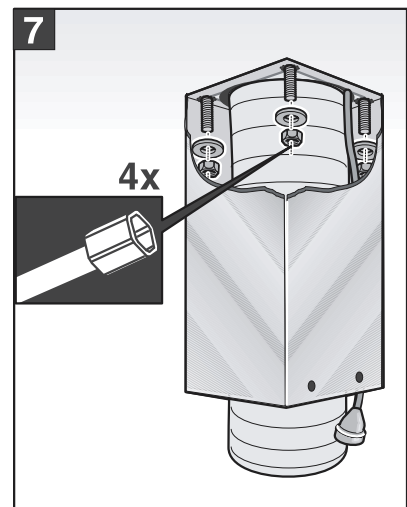
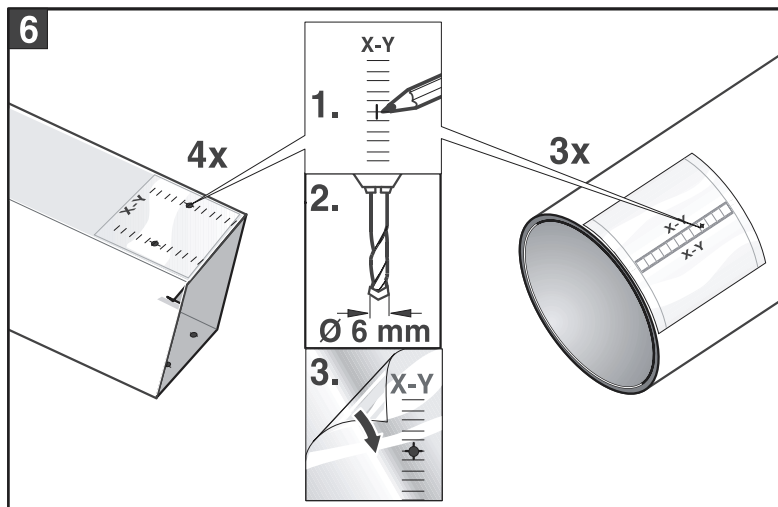
Details given on nominal heat input levels do not apply for fully-enclosed glass ceramic gas hobs. Please follow the manufacturer's instructions carefully.

3. Exhaust air may not be discharged into a smoke or exhaust gas chimney which is in operation; nor may it be discharged into a shaft used for ventilating rooms where hearths or fireplaces have been installed. Should exhaust air be discharged into smoke chimneys or exhaust gas chimneys which are not in operation, prior approval must be granted by the master chimney sweep responsible.
4. In the case of **exhaust air operation** of the cooker hood and the simultaneous operation of heating systems requiring a chimney (such as gas, oil or coal heaters, flow heaters or hot water boilers), a sufficient supply of inlet air, required by the heating system for combustion purposes, must be ensured. Negative pressure in the location of a fireplace may not exceed 4 Pa (0.04 mbar). This is achieved if it is possible for more air to flow in. In order to assess this, the entire ventilation system of the house or apartment must always be taken into consideration. In the case of **the recirculating air mode** of the cooker hood, operation can be carried out without any restrictions.
5. The cooker hood may only be installed above a fireplace for solid fuels where there may be a risk of fire (e.g. flying sparks) if the fireplace has a fully-enclosed permanent cover.

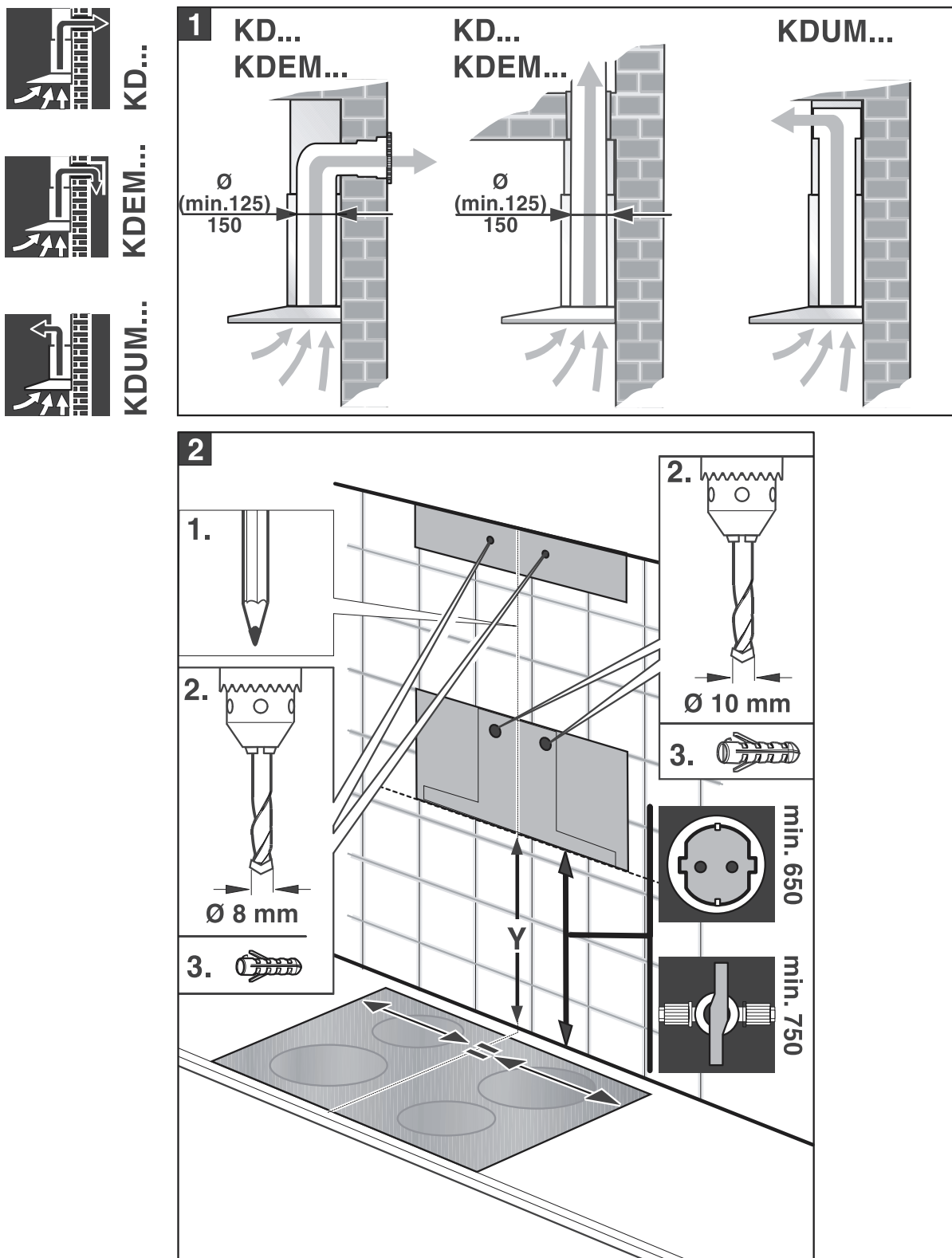
3. Mounting instructions

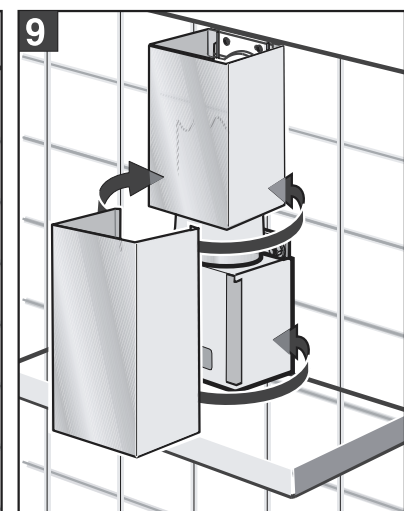
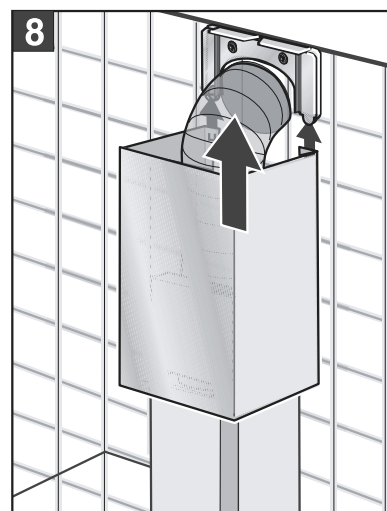
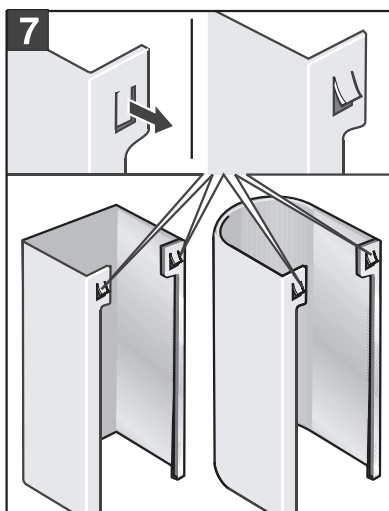
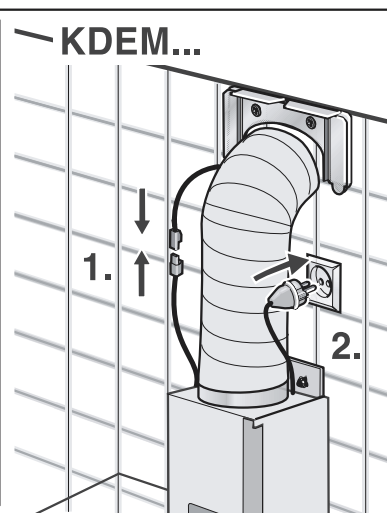
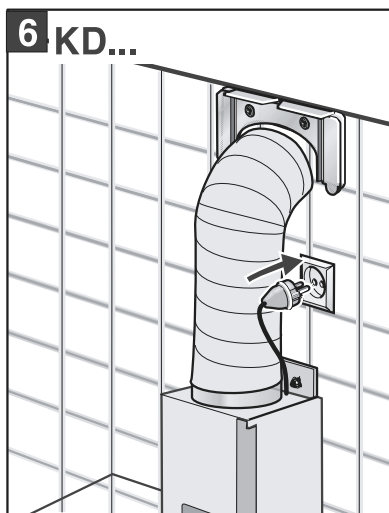
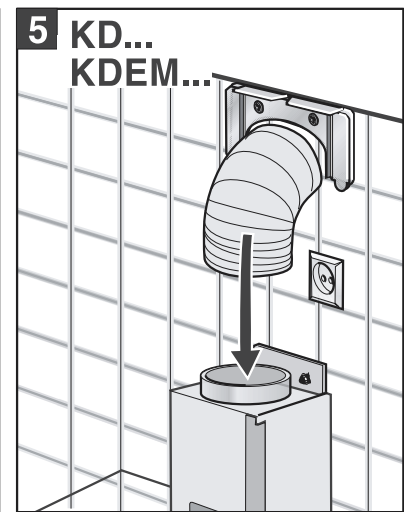
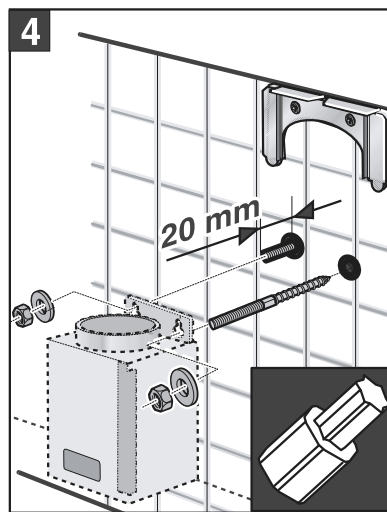
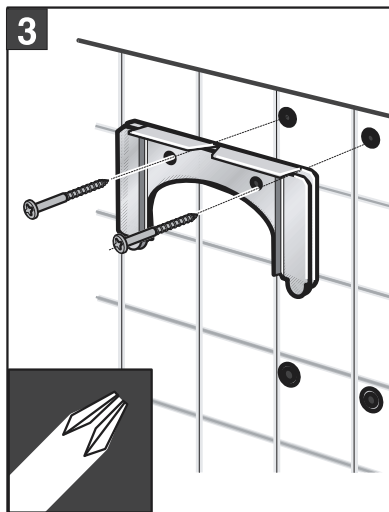
3.1 IKD ..., IKDEM ..., IKDUM ...





3.2 KD ..., KDEM ..., KDUM ...





4. Accessing the components

4.1 IKD ..., IKDEM ..., IKDUM ...

4.1.1 Operating element

In order to remove the operating element, remove the grease filter (see "6. Grease filter" on page 16).

Remove the two screws by inserting a mandrel into the round opening on the side of the screws.



⚠ Do not use flat pliers to loosen the screws! The casing and the screws may be scratched!

Once the screws have been loosened, the operating element can be removed towards the back, above the grease filter.

To replace it, use the mounting aid, spare-part no. 340287 (2x).



Please proceed as follows:

- Insert the two threaded rods from the outside through the drilled holes of the operating element onto the casing and screw onto the operation element. Then, by means of pulling up the two threaded rods, guide the operation element to where it is to be mounted.
- Screw out a threaded rod and screw in one of the screws which had previously been removed. Then screw in the other screw. The screws should once again be tightened with a mandrel.

4.1.2 Motor

In order to remove the motor push the lower chimney upwards and secure it so that it cannot fall down. Loosen the cable connections (mains lead and also, in the case of the IKDEM ... the cable connection to the external motor), and loosen the exhaust air duct. Loosen the screws on the bottom part and on the upper chimney and lower the bottom part down.

Loosen the motor screws and remove the motor towards the top. It may be necessary to remove the electronics unit. In order to do so, the motor should still be installed. In order to remove the electronics unit (see too "4.1.3 Electronics unit"), remove the two screws and pull out the two group sockets. You will then be able to pull the unit out towards the front.

4.1.3 Electronics unit



In order to remove the electronics unit push the lower chimney upwards and secure it so that it cannot fall down.



Remove the two group sockets and the two screws.



Then pull out the electronics unit towards the front (drawer function).

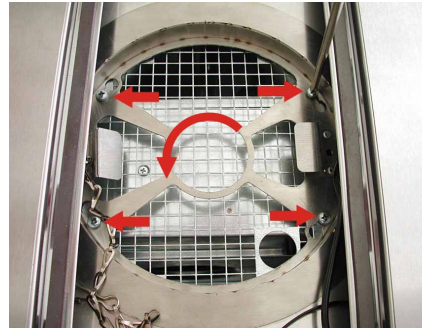
4.1.4 Glass canopy

In the case of cooker hood designs IKD 10700.0 GE, IKDEM 10700.0 GE and IKDUM 10700.0 GE, it is not possible to replace the canopy itself. Only the bottom part as a whole unit can be replaced.

It is only possible to replace the glass canopy in the case of models IKD 10800.0 GE, IKDEM 10800.0 GE and IKDUM 10800.0 GE.

The cooker hood must be removed in order to replace the glass canopy.

- Subsequent to removing the cooker hood, remove the two group sockets from the electronics unit and place the appliance on the motor support.
- Remove the grease filter, and if present, the charcoal filter.
- Remove the four screws that connect the bottom part (including the glass canopy) to the motor casing.

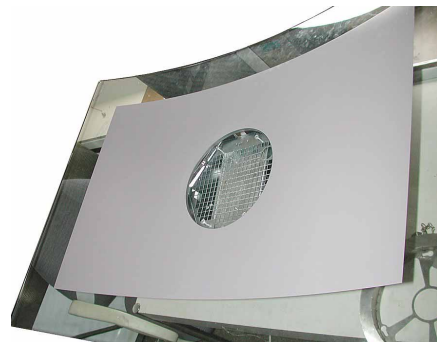


- Remove the bottom part. On doing so, take care not to damage the two control element cables and the lamp.



- Now the glass canopy can be replaced.

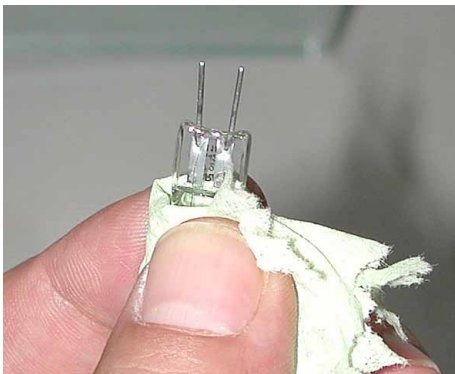
Assembly is carried out in reverse order.



4.1.5 Halogen lighting



In order to replace the halogen lamps (2x 20 W, Type G4), clip out the glass cover with a screw driver and remove the halogen lamp from the plug base.



Use a cloth to insert the new halogen lamp. **Do not touch the lamps with your fingers!**



Finally, replace the glass cover.

4.2 KD ..., KDEM ..., KDUM ...

4.2.1 Control panel

See 4.1.1.

4.2.2 Motor

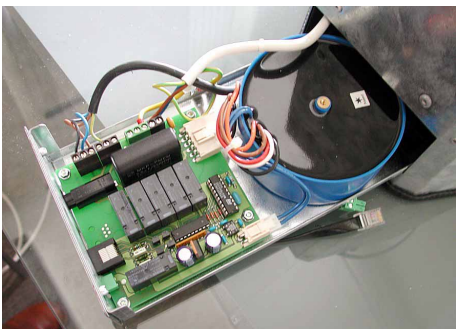
- Remove the lower chimney and the upper chimney in order to dismount the motor. Then remove the exhaust air duct from the motor connecting piece.
- Now loosen the fastening screws and take the cooker hood off the wall.
- Once the cooker hood has been dismounted, loosen the motor screws and remove the motor.

4.2.3 Electronics unit

In order to remove the electronics unit push the lower chimney upwards and secure it so that it cannot fall down.



Remove the two group sockets and the two screws.



Then pull out the electronics unit towards the front (drawer function).

4.2.4 Glass canopy

In the case of cooker hood lines KD 9700.0 GE, KDUM 9700.0 GE and KDEM 9700.0 GE, it is not possible to replace the canopy itself. Only the bottom part as a whole unit can be replaced.

It is only possible to replace the glass canopy in the case of lines KD 9800.0 GE, KDEM 9800.0 GE and KDUM 9800.0 GE.

See 4.1.4 to replace the glass canopy.

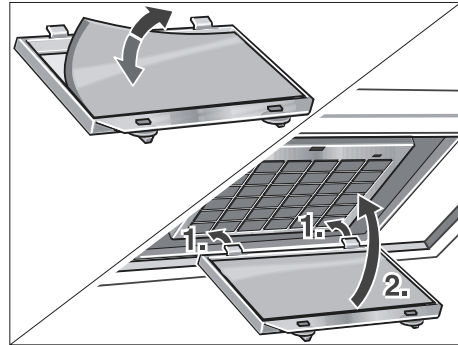
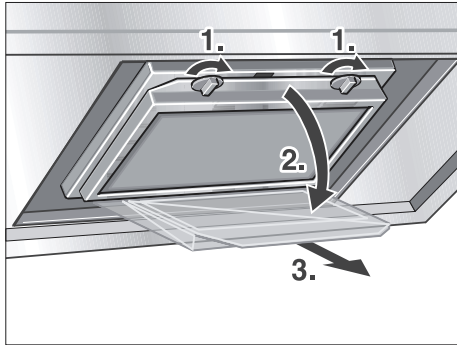
4.2.5 Halogen lighting

See 4.1.5.

5. Charcoal filter

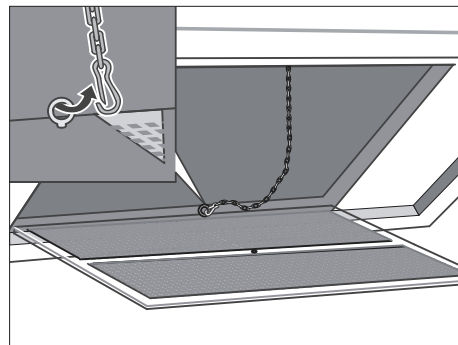
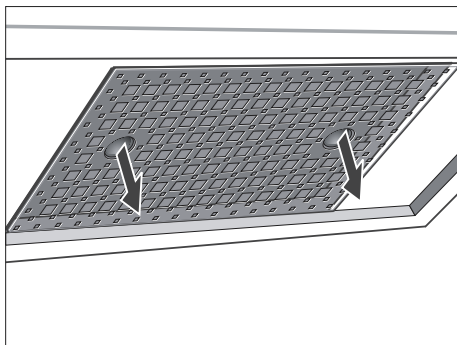
Remove the grease filter and the charcoal filter in order to replace the charcoal filter (charcoal filter mat).

In the case of the IKDUM 10700.0 GE and KDUM 9700.0 GE, the charcoal filter holder must be unlocked once the grease filter has been removed.



6. Grease filter

In order to remove the grease filter, pull it downwards. The grease filter is only held in place by means of magnetic strips. Once the grease filter has been removed the safety chain must be removed. Please note that on replacing the grease filter it is essential that the safety chain be installed. If the grease filter is not secured with the safety chain there is a risk that the grease filter will fall down and damage the hob.



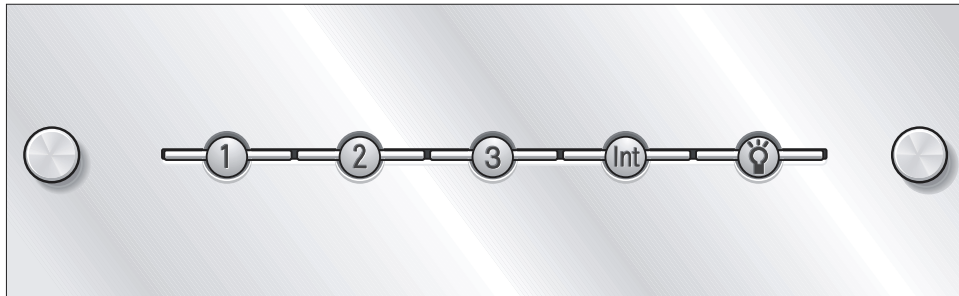
7. Operating unit

There is a choice of 4 power settings. The buttons 1, 2, 3 and Int. are used to set the required power level.


- 1 = low motor speed
- 2 = medium motor speed
- 3 = high motor speed
- Int. = intensive power setting

On switching on the fan with buttons 1, 2 or 3, the respective button will light up orange. Press the activated button (lights up orange) once again to switch off the fan.

The intensive power setting is generally only used for a short period. For this reason the cooker hood will switch back to power level 3 after 10 minutes. When the intensive power setting is activated, the "Int." button will light up orange.



8. Lighting

The lighting can be used on its own too, without the fan. Press the lamp button  in order to switch the lighting on and off. The lamp button will light up yellow.

9. Technical data and circuit diagrams

9.1 Technical data

| | |
|---|---|
| Halogen lighting – number and output | 2x 20 W |
| Air extraction rate (free-blowing) according to catalogue | Min.: 355 m³/h Max.: 585 m³/h Intensive: 750 m³/h |
| Electrical connection | 215 W |
| Voltage | 230 V |
| Minimum clearance above electric hobs | 650 mm |
| Minimum clearance above gas hobs | 750 mm |
| Exhaust air connection diameter | 150 mm |

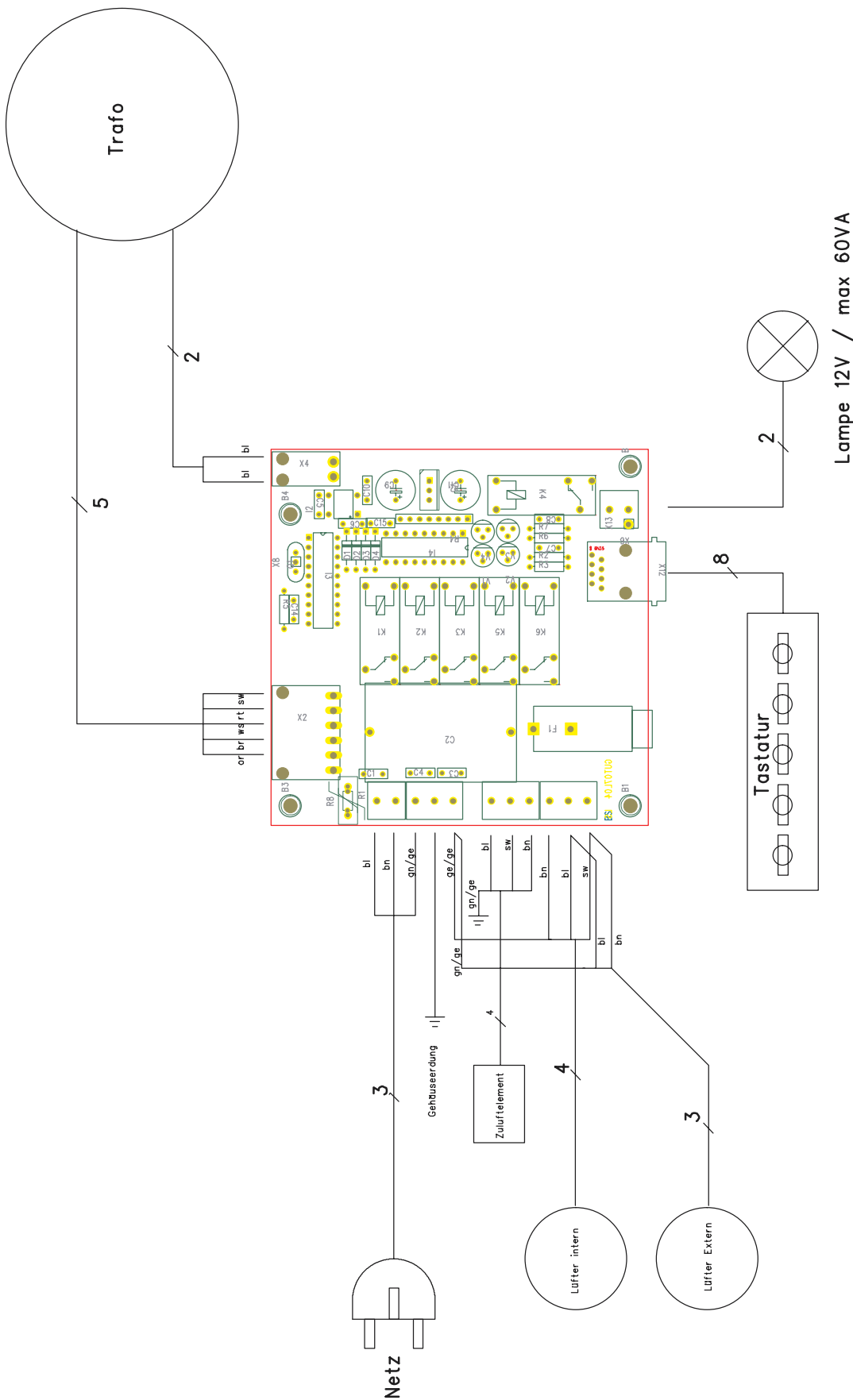
dB data, free-blowing:

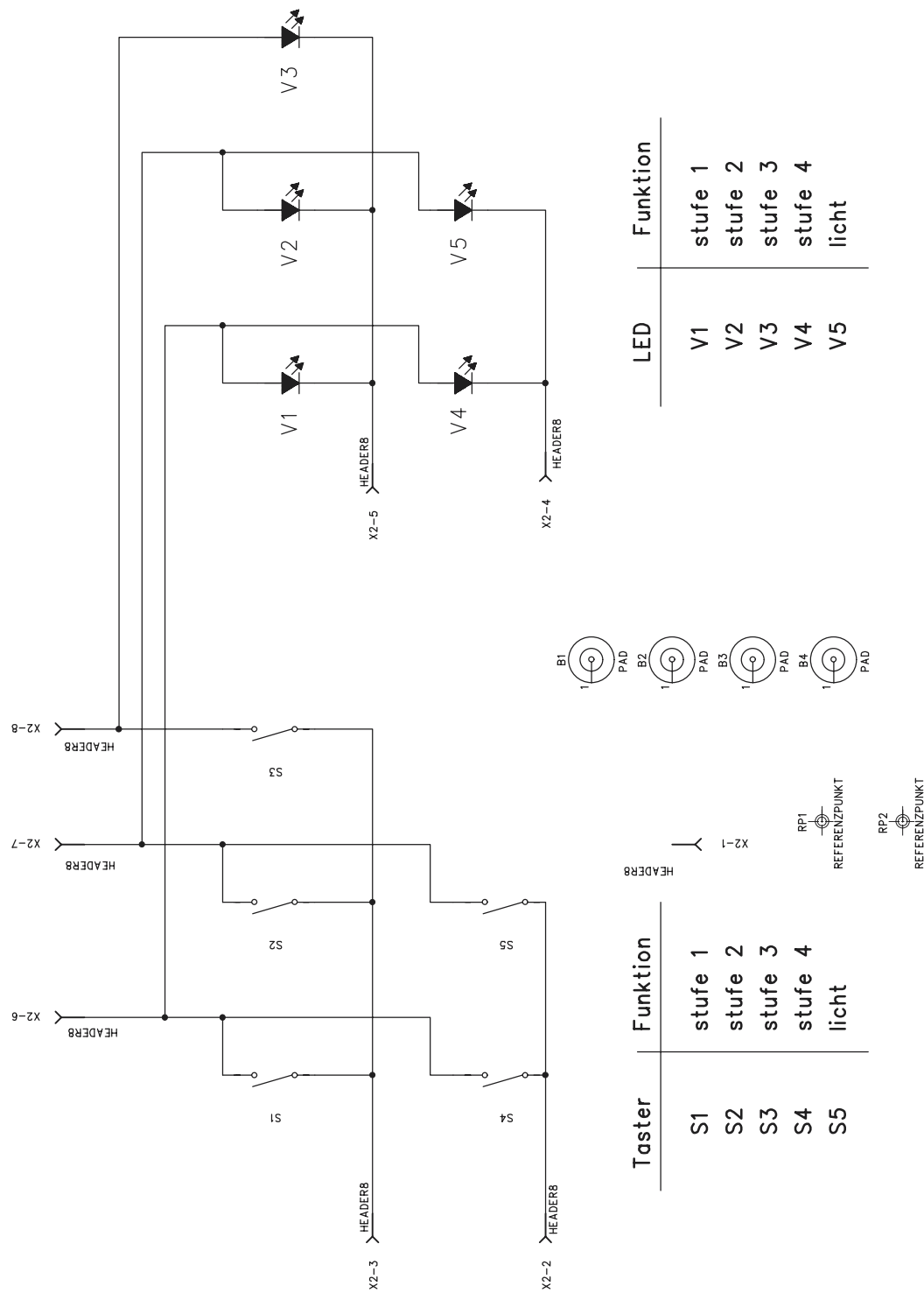
| | | |
|--------------------------------|---------------|----------------|
| KD 9800.0 / IKD 10800.0 | Min. setting: | 44 dB (A) |
| | Max. setting: | 59 dB (A) |
| | Int. setting: | 65 dB (A) |
| KD 9700.0 / IKD 10700.0 | Min. setting: | 40 / 42 dB (A) |
| | Max. setting: | 53 / 53 dB (A) |
| | Int. setting: | 60 / 59 dB (A) |



At present there is no standard gauging procedure for this data! These figures are only to be used as reference values for measuring the noise level. In the recirculating air mode higher dB (A) values are measured.

9.2 Wiring plans





10. Finding faults

Light does not work

- | | | |
|---------------------------|---|---------------------------------------|
| - Halogen lamp defect | ⇒ | Replace the lamp |
| - Remove the halogen lamp | ⇒ | Check the connections |
| - Relay does not activate | ⇒ | Replace the control unit |
| - Relay activates | ⇒ | Replace the magnetic core transformer |

Hood does not work

- | | | |
|-----------------------|---|---------------------------------------|
| - Mains connection OK | ⇒ | Check the connection |
| - Fuse 3.15 A | ⇒ | Replace the fuse |
| - Fuse OK | ⇒ | Replace the control unit |
| - Motor connection OK | ⇒ | Replace the magnetic core transformer |

Motor too loud

- | | | |
|--------------------------------|---|---|
| - Out of balance | ⇒ | Replace the motor |
| - Exhaust air path too narrow | ⇒ | Check the diameter and, if necessary, enlarge |
| - Aluminium flexible pipe | ⇒ | 4 db (A) louder |
| - Motor only runs at one speed | ⇒ | Check the keys |
| - Motor connection OK | ⇒ | Change the connections |
| - Capacitor defect | ⇒ | Replace the control unit |
| - Operating element defect | ⇒ | Replace the operating element |

Operating element error

- | | | |
|----------------------------|---|-------------------------------|
| - Operating element defect | ⇒ | Check the connection |
| - Connection OK | ⇒ | Replace the operating element |

11. Air extraction rate, dB data in accordance with EN

| Model | Power consumption in watts | Volume flow in m³/h | Sound intensity level in db (A) |
|------------------------------|-------------------------------|------------------------|------------------------------------|
| IKD 10700.0GE | | | |
| High-power setting | 174 | 710 | 59 |
| Max. standard level | 116 | 572 | 53 |
| Min. standard level | 40 | 292 | 42 |
| IKDUM 10700.0GE | | | |
| High-power setting | 140 | 502 | 61 |
| Max. standard level | 100 | 362 | 55 |
| Min. standard level | 39 | 170 | 43 |
| IKDEM 10700.0GE + EMA | | | |
| High-power setting | 160 | 782 | 62 |
| Max. standard level | 128 | 610 | 54 |
| Min. standard level | 56 | 330 | 42 |
| IKDEM 10700.0GE + EMI | | | |
| High-power setting | 200 | 712 | 57 |
| Max. standard level | 156 | 598 | 53 |
| Min. standard level | 65 | 318 | 40 |
| KD 9700.0GE | | | |
| High-power setting | 166 | 660 | 60 |
| Max. standard level | 113 | 477 | 53 |
| Min. standard level | 40 | 198 | 40 |
| KDUM 9700.0GE | | | |
| High-power setting | 144 | 490 | 61 |
| Max. standard level | 73 | 350 | 56 |
| Min. standard level | 39 | 159 | 42 |
| KDEM 9700.0GE + EMA | | | |
| High-power setting | 200 | 677 | 60 |
| Max. standard level | 170 | 572 | 56 |
| Min. standard level | 72 | 280 | 41 |
| KDEM 9700.0GE + EMI | | | |
| High-power setting | 215 | 687 | 58 |
| Max. standard level | 180 | 598 | 55 |
| Min. standard level | 76 | 299 | 41 |
| IKD 10800.0GE | | | |
| High-power setting | 123 | 604 | 65 |
| Max. standard level | 92 | 356 | 59 |
| Min. standard level | 36 | 190 | 44 |
| IKDEM 10800.0GE + EMA | | | |
| High-power setting | 175 | 648 | 66 |
| Max. standard level | 140 | 566 | 61 |
| Min. standard level | 53 | 267 | 43 |
| IKDEM 10800.0GE + EMI | | | |
| High-power setting | 195 | 680 | 62 |
| Max. standard level | 150 | 585 | 58 |
| Min. standard level | 65 | 280 | 43 |

| Model | Power consumption in watts | Volume flow in m³/h | Sound intensity level in db (A) |
|----------------------------|-------------------------------|------------------------|------------------------------------|
| IKDUM 10800.0GE | | | |
| High-power setting | 105 | 400 | 61 |
| Max. standard level | 90 | 318 | 59 |
| Min. standard level | 37 | 159 | 46 |
| KD 9800.0GE | | | |
| High-power setting | 124 | 604 | 65 |
| Max. standard level | 92 | 356 | 59 |
| Min. standard level | 36 | 190 | 44 |
| KDUM 9800.0GE | | | |
| High-power setting | 106 | 400 | 61 |
| Max. standard level | 91 | 318 | 59 |
| Min. standard level | 38 | 159 | 46 |
| KDEM 9800.0GE + EMA | | | |
| High-power setting | 175 | 668 | 66 |
| Max. standard level | 140 | 566 | 61 |
| Min. standard level | 53 | 267 | 44 |
| KDEM 9800.0GE + EMI | | | |
| High-power setting | 195 | 680 | 62 |
| Max. standard level | 150 | 585 | 59 |
| Min. standard level | 65 | 280 | 43 |