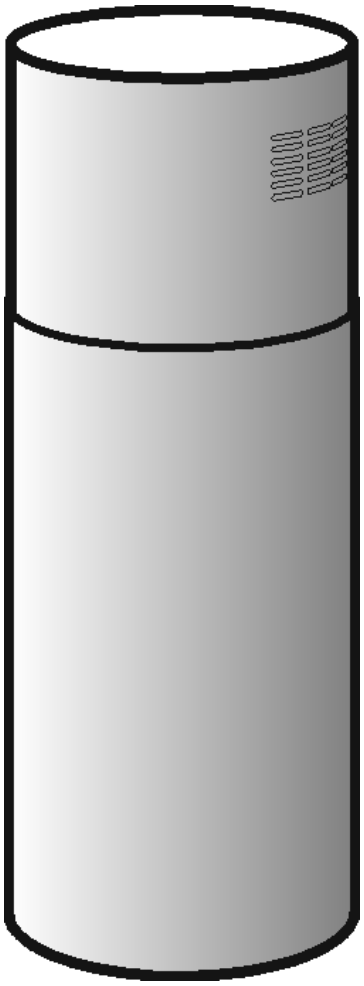


Cooker hood
IKD 3700.0

Küppersbusch

THE HEART OF A GOOD KITCHEN

GB

Service Manual: H5-76-03

Responsible: U. Laarmann
E-mail: uwe.laarmann@kueppersbusch.de
Phone: (0209) 401-732
Fax: (0209) 401-743
Date: 12.10.2007

KÜPPERSBUSCH HAUSGERÄTE AG
Kundendienst
Postfach 100 132
45801 Gelsenkirchen

Contents

1. Safety

Danger!

Repairs may only be carried out by a qualified electrician!
Improper repairs can be extremely dangerous for the user.

It is essential that you observe the following instructions in order to prevent electric shocks:

- The casing and the frame may be live in the event of faults!
- Touching live components inside the appliance may cause dangerous currents to flow through your body!
- Disconnect the appliance from the mains prior to carrying out any repair work!
- When inspecting live parts, a residual current circuit breaker must always be used!
- The earthed conductor resistance must not exceed the resistance specified in the standard! It is vital for ensuring the safety of persons 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 in accordance with the corresponding regulations for your country!

Attention!

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 Information

A clearance of at least 30 cm must be maintained between the pan support area on the hob and the bottom of the cooker hood. If the instructions for installation of the hob specify a larger clearance, this is to be maintained.

The exhaust air ducts may not be connected to combustion exhaust gas chimneys (for example central heaters, heaters, bathroom heaters, etc.).

Official regulations must always be observed the exhaust air is discharged. Furthermore, the exhaust air may only be lead through a hole in the wall if the hole is intended for this purpose.

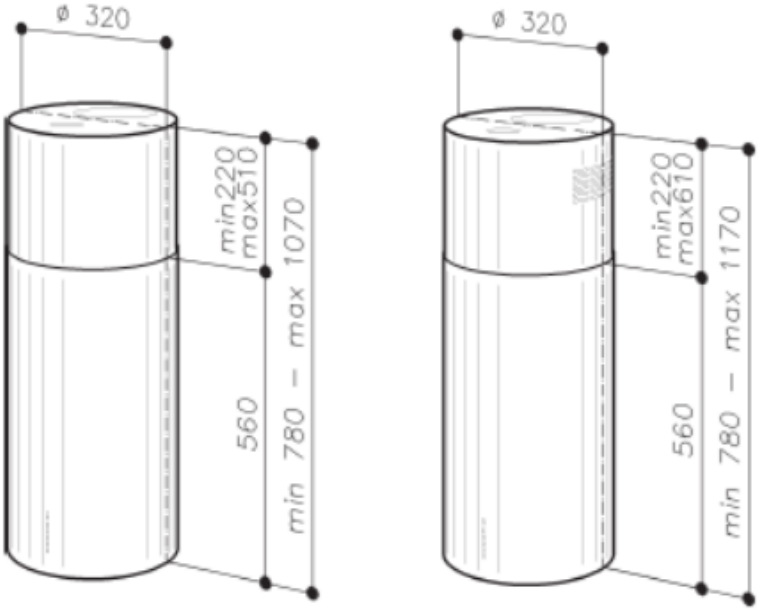
Attention! Care must be taken when an extraction cooker hood and a heating system operating on ambient air (e.g. gas, oil or coal heaters, flow heaters or hot water boilers) since extracting the air through the cooker hood will remove the air from the room in which these heaters are installed and which they need for combustion purposes. Operation will only be safe if, in the case of simultaneous operation of a hood and a heater requiring ambient air, negative pressure in the room in which the heater and the hood are installed does not exceed 0.04 mbar, thus ensuring that the exhaust gases of the heaters will not be re-absorbed. The room must be fitted with ventilation connections which ensure a constant inflow of fresh air.

ATTENTION: This appliance must be earthed.

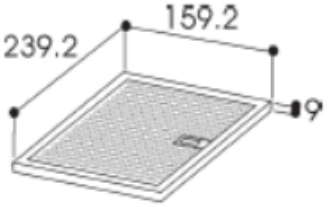
Make sure that the socket of electrical connections is earthed. In the case of electrical connection a check will need to be carried out to ensure that the voltage level of the mains power supply complies with the voltage levels indicated on the nameplate located on the inside of the appliance. If your hood has not been fitted with a permanently connected cable with a plug or another device to enable universal disconnection with a contact opening of at least 3 mm, suitable cut-off devices will need to be provided for permanent connection. When installing the hood make sure that the plug is accessible if your hood is fitted with a mains supply cable with a plug.

The hood must be disconnected from the mains power supply before it is cleaned or before any maintenance work is carried out.

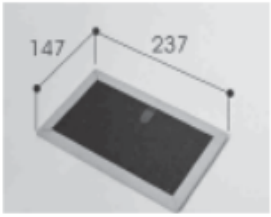
3. Dimensions



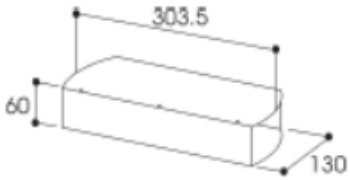
Extraction mode **Recirculation mode**



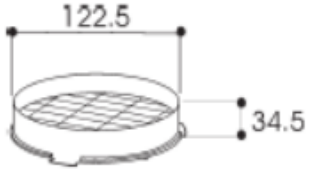
Grease filter



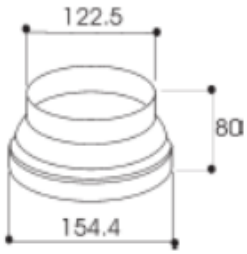
Charcoal filter ZUB 839



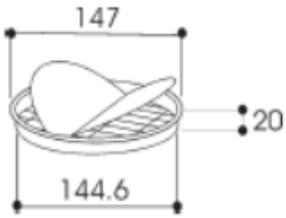
Baffle plate



Diverting flange

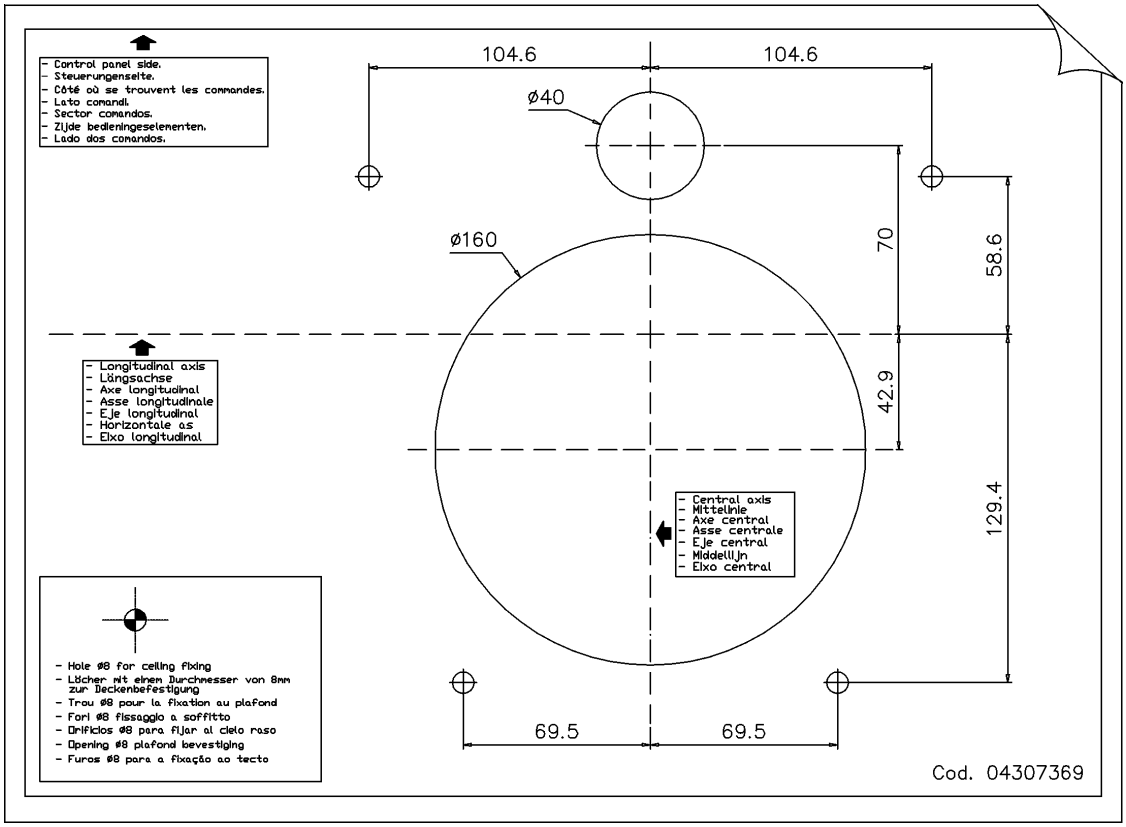


Reduction piece



Flange

4. Mounting holes



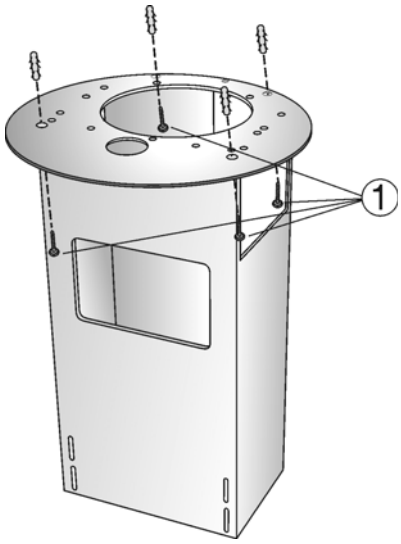
Use the template supplied in the bag of accessories for making holes in the ceiling. Lay the drilling template on the ceiling as a vertical extension of the hob and drill the holes.

Ø 160 mm hole is only used for the extraction model.

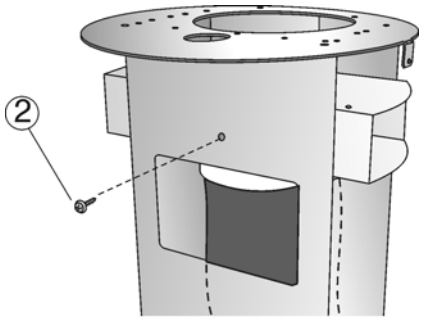
The Ø 40 mm hole is required for leading the mains cables through.

5. Screw specification

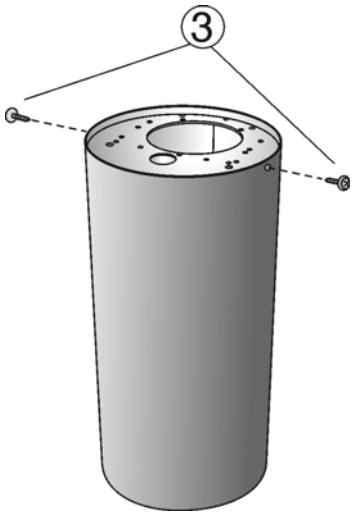
1. Screws for fastening the panel onto the ceiling
   4.8 x 38 mm.



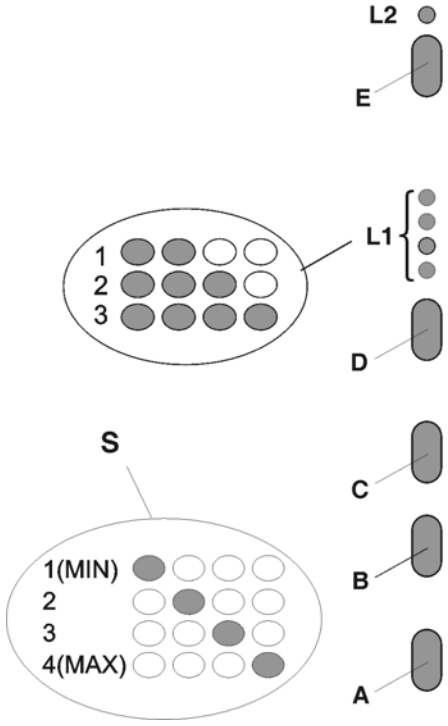
2. Screw for fastening the deflector
   3.9 x 9.5 mm.



3. Screw for fastening the decorative pipe
   3.9 x 9.5 mm, stainless steel.



6. Buttons and functions



The extractor hood is equipped with a fully automatic system for administrating all of the available functions (Advanced Sensor Control). The air in the kitchen stays pleasant and fresh without requiring any manual controls. The sensitive sensors detect any type of steam, vapours, odours and GAS and automatically adjust the hood to the required fan power.

6.1 Buttons

Button A	Switch off the lighting.
Button B	Switch on the lighting.
Button C	Reduce the motor speed to zero. The hour metre is set at zero if pressed for 2 sec. when the fire alarm has gone off.
Button D	Activate the motor (by calling up the last speed set) and drive up the speed until the top speed is reached.
Button E	Activate/deactivate the sensor (AUTOMATIC or MANUAL operation mode). The sensor is activated in the automatic operation mode and the letter “A” will appear on the display (L).
LED L1	The 4 GREEN LEDs show the current speed.
LED L2	The GREEN LED shows that the AUTOMATIC operation mode has been switched on. On the other hand, when the LED is switched off the MANUAL operation mode will be switched on. The RED LED indicates the filter alarm.

6.2 Functions

Filter alarm

Is shown for 30 sec. when the motor is switched off: After an operation period of 30 hours the middle segment on the display will light up to indicate that the anti-grease filter needs to be cleaned. After an operation period of 120 hours the middle segment on the display will blink to indicate that the grease filter needs to be cleaned and that the charcoal filter needs to be replaced.
After the grease filter has been cleaned (and/or the charcoal filter has been replaced), button C (RESET) needs to be pressed while the filter alarm is being indicated in order to reset the hour metre.

Sensitivity of the gas sensor

The sensitivity of the gas sensor may be adjusted to suit the personal needs of a user.

To adjust the sensitivity, the appliance must be in the manual operation status (i.e. the letter **A** is not shown on the display, instead the current speed is shown).

Button **E** may need to be pressed.

The degree of sensitivity can be adjusted by pressing buttons **D** and **E** simultaneously. The respective degree of sensitivity set will be shown on the four green LEDs (S).

Attention!

Do not use any products containing silicone near the cooker hood, since this may damage the sensor.

Use buttons **C** (-) and **D** (+) to set the required level of sensitivity.

Pressing button **E** will store the “new” sensitivity setting.

7. Procedure for repairs

We recommend that you follow this procedure:

1. Inspection of the product and assessment of its installation.
2. Determine the problem and replace faulty parts if necessary.
3. Carry out a function test to assess that the corrective action was carried out properly.

First steps

- **Disconnect the hood from the power supply.**
- Pull out the power plug.
- Switch off the mains switch.

Remove the extraction panels

- to access the internal components.

Remove the metal filters

- to access the operating elements.

Remove the odour filters

- if the hood has been installed in the recirculating air mode.

Check

Before you carry out any repair work make sure that the “Check” steps to determine minor errors or faults have been carried out.

Noises or unusual vibrations

- Check to ensure that the installation screws are tightly fastened.
- Check to ensure that the extraction panel of the edge suction device is properly closed.

The hood does not switch on

- Check to ensure that the plug is inserted firmly into the socket.
- Make sure that the power supply has not been cut off.
- Check the position of the motor controls.

Weak suction power

- Clean the metal filters or replace the charcoal filters in recirculating air hoods.
- Check to ensure that the air hole is not blocked and that it is the right size.

7.1 Changing the halogen lamp

If the lighting does not work the lamps will firstly need to be checked and you will need to make sure that the control switch on the control panel of the hood has not developed a fault.

The hood must be disconnected from the mains power supply before it is cleaned or before any maintenance work is carried out.

Proceed as follows to replace a lamp or lamp mounting:

1. Open the cover by levering it off at the corresponding slits.
2. Replace with a new lamp of the same type.

ATTENTION: Never touch a new lamp with your bare hands.

3. Check the functioning.

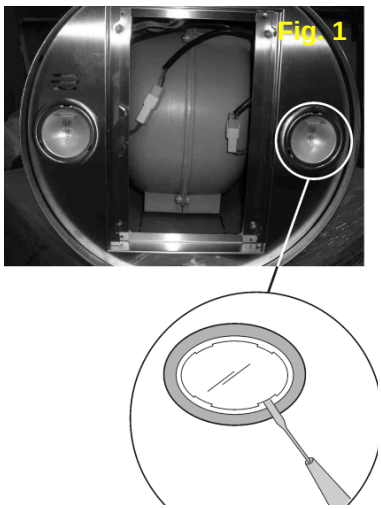


Fig. 1

7.2 Replacing the entire lamp block

1. Disconnect the connection of the lamp block that is to be replaced.

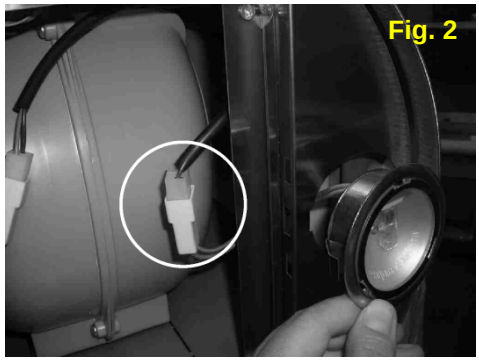


Fig. 2

2. Press the two clips on the side and take out the lamp block.

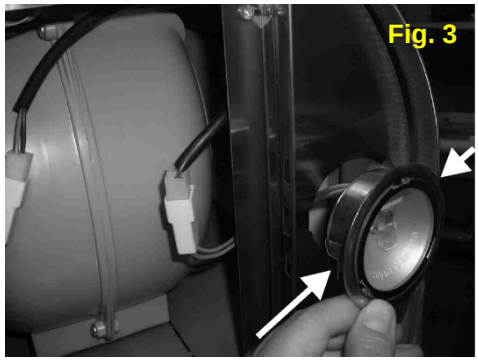


Fig. 3

8. Accessing the connection box

The hood must be disconnected from the mains power supply before it is cleaned or before any maintenance work is carried out.

1. Remove the connections of the two lamps.
2. Press the two clips on the side and take out the lamp block.
3. Remove the metal frame after the four screws (A) have been removed.

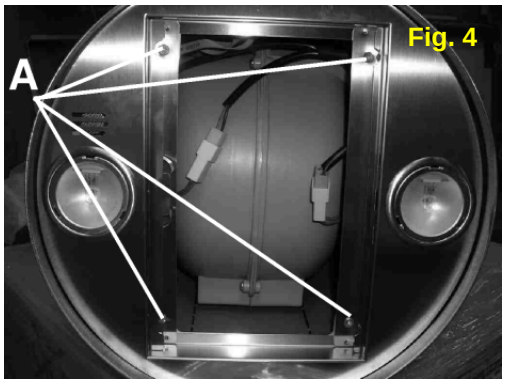


Fig. 4

4. Loosen the two knurled screws (B) but do not remove them.

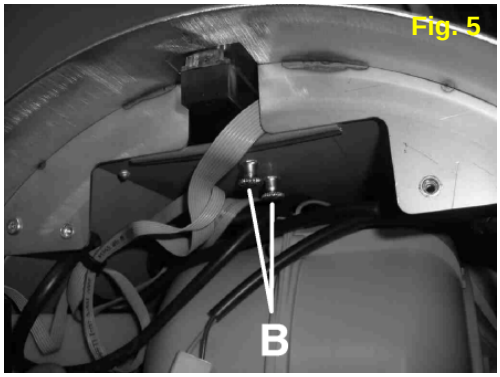


Fig. 5

5. Remove the control element block.


Fig. 6

9. Removing the electrical components

The hood must be disconnected from the mains power supply before it is cleaned or before any maintenance work is carried out.

The electric components are mounted on a metal plate which is located on the inside of the hood.

1. Remove the connections of the two lamps (Fig. 2).
2. Press the two clips on the side and take out the lamp block (Fig. 3).
3. Remove the metal frame after the four screws (A) have been removed (Fig. 4).
4. Loosen the two knurled screws (B) but do not remove them (Fig. 5).
5. Take out the control element block (Fig. 6).
6. Take off the bottom decorative pipe after the four screws (C) have been removed (Fig. 7) and pull it out downwards.
7. Take out the top decorative pipe after the two screws (D) have been removed and pull it out downwards.

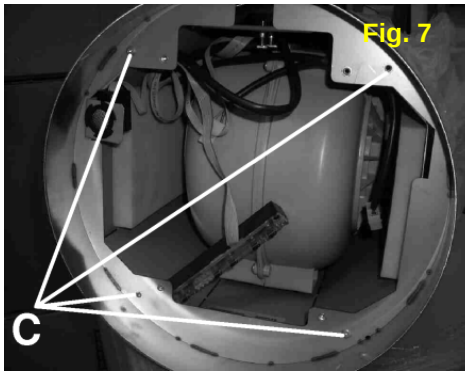


Fig. 7

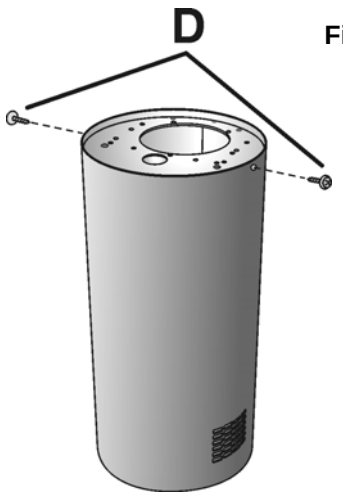


Fig. 8

8. The metal plate on which the electrical components are mounted will now be exposed.


Fig. 9

10. Removing the motor block

The hood must be disconnected from the mains power supply before it is cleaned or before any maintenance work is carried out.

1. Remove the connections of the two lamps (Fig. 2).
2. Press the two clips on the side and take out the lamp block (Fig. 3).
3. Remove the metal frame after the four screws A have been removed (Fig. 4).
4. Loosen the two knurled screws (B) but do not remove them (Fig. 5).
5. Take out the control element block (Fig. 6).
6. Take off the bottom decorative pipe after the four screws (C) have been removed (Fig. 7) and pull it out downwards.

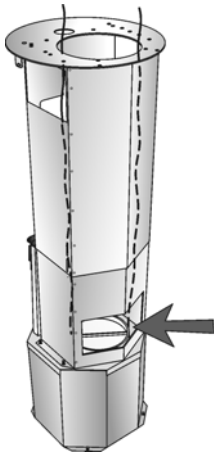


Fig. 10

7. Pull out the outgoing air tube though the opening at the back (Fig. 10).
8. Remove the four nuts and the four washers and take the motor block (E) off the bottom structure (F) – Fig. 11.
9. Remove the four screws (G) which hold the motor block (Fig. 12).
10. Disconnect the contacts (Fig. 13) and remove the motor block.

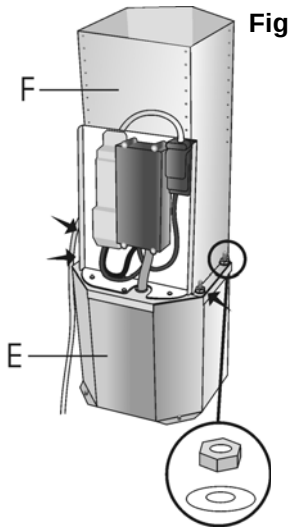


Fig. 11

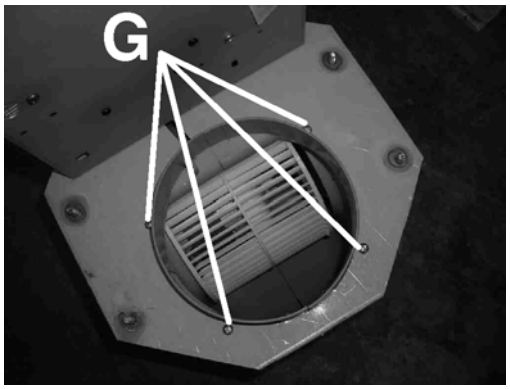


Fig. 12

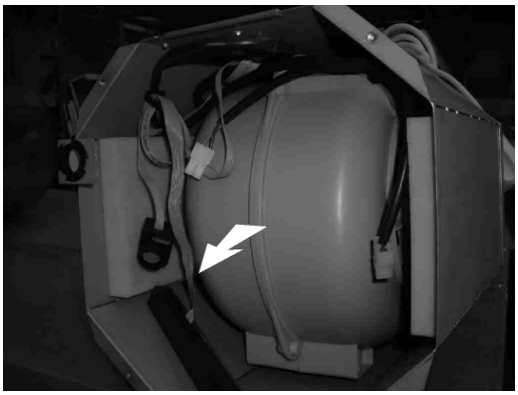


Fig. 13

11. Technical data

Voltage/frequency	220-240 V / 50 Hz
Appliance dimensions (WxDxH)	Ø 320 x 780(min)/1170(max))
Electrical connection	250 W
Halogen lighting	2 x 20 W
Air rate Level 1 Level 2 Level 3	 300 m³/h 440 m³/h 645 m³/h
Pressure Level 1 Level 2 Level 3	 340 Pa 425 Pa 470 Pa
Resistance Level 1 (red/blue) Level 2 (red/white) Level 4 (red/black)	 129.6 Ω 108.9 Ω 67.5 Ω
Noise Level 1 Level 2 Level 3	 39 dB 47 dB 56 dB
Exhaust air connection	150 mm

12. Faults and the cause

Attention! Repairs may only be carried out by qualified electricians or specialists!

Problem	Probable cause	Solution
The cooker hood does not work.	The power cable has not been connected to a live socket.	• Check to ensure that the cable has been properly inserted. Check to ensure that the socket is live. • Check the plug on the motor.
The light does not work.	The lamp has burned out.	Replace with the same mode and reference.
The hood does not have enough power.		Check whether • the motor velocity selected is sufficient for the quantity of smoke and steam which occurs; • the kitchen has been sufficiently ventilated in order to enable the air extraction opening to be opened; • the charcoal filter has been used up (air circulation hood); • the sensor is sufficiently sensitive (for hoods with automatic operation).
The hood has gone off itself during standard operation.		Check whether • there has been a power cut; • the universal switch has tripped.

13. Circuit diagram