oxytec air & water purification systems

PLASMA RECIRCULATION FILTER FOR WALL- AND ISLAND-HOODS

OPERATION AND MAINTENANCE INSTRUCTIONS



Contents

1. General safety instructions	3
2. Dangers for certain persons	3
3. Foreseeable error application	3
4. General installation	4
5. Electrical installation	4
6. In case of defective plasma recirculation filter	5
7. Technical data	5
8. Installation	6
9. Maintenance	6
10. Disposal of packaging	6
11. Scope of delivery	6
12. Drawings	7

Introduction Plasma recirculation filter for wall- and island-hoods

Dear customer,

thank you for your trust and your decision to purchase a plasma filter with the new and innovative NT volume plasma and we wish you much pleasure with this product.

The plasma source of the volume plasma has been developed by **plasmatec GmbH** in cooperation with research institutions such as the **Fraunhofer Institute for Surface Engineering** and **Thin Films IST at the Göttingen site**, the **HAWK University of Applied Sciences and Arts in Göttingen**, and the **Leibnitz Institute** for Low Temperature Plasma INP in Greifswald.

In this cooperation, all the necessary components of the universal plasma filter you have purchased have been matched to each other in such a way that maximum functionality is achieved in operation with domestic kitchen extractor hoods with regard to the reduction of microbiological contamination and odours.

1. General safety instructions

Observe the operating instructions.
Read the operating instructions completely before using the unit.

Keep the operating instructions in a safe place. Failure to follow these instructions may result in serious injury or damage to the unit.

Important information for your safety is specially marked outside this chapter. It is essential that you follow these instructions to avoid accidents and damage to the unit.

Do not insert any foreign objects or similar into the unit.

2. Dangers for certain persons

The appliance may be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children must not play with the appliance. Keep children away from packaging materials. There is a risk of suffocation.

If you notice any damage, use is prohibited. In this case, please contact us directly or your specialist dealer. Cleaning/replacement of the activated carbon should never be carried out by children.

The universal plasma filter you have purchased is intended for private household use only.

3. Foreseeable error application

We strongly advise against flambéing.

To avoid fire hazards, remove any overheated oil in a pan or pot immediately – fire hazard!
Never block the ventilation paths of the plasma filter or your cooker hood.

4. General installation

The universal plasma filter is used exclusively for recirculating air purification in conjunction with a household extractor bonnet. The universal plasma filter requires pre-filtering that protects the plasma source from grease and too much moisture. In most models, this is a metal grease filter that is installed in the bonnet or recessed fan. This protects the plasma source contained in the plasma filter and also significantly reduces water vapour from the air. The metal filter should be cleaned in the dishwasher approximately every two to three weeks.

We recommend using the plasma filter exclusively in combination with cooker hoods with a grease filter efficiency class ≥B.

The plasma filter must be installed in such a way that the air can escape unhindered from the activated carbon. Make sure that there is sufficient distance to the conversion. As a guide-line, at least 30 mm should be maintained all around. If the air outlet surface of the plasma filter is obstructed, the effect of the filter is reduced, the air exchange rate is reduced and the noise of the fan is increased.

The air outlet area into the room must be selected so that there is no cross-ventilation to the air inlet/intake area, thus hindering the collection. Ideally, the air outlet should be selected in such a way that air circulation can occur in the room, which favours optimum air capture by the bonnet. Switching on the extraction system in good time, about 10 minutes before the actual cooking process, ensures that the cooking vapours are captured quickly and effectively, as an air circuit can already be established in the room.

Since no hood can guarantee 100 % capture of the cooking vapours produced while cooking is still in progress, it will be necessary to run it after cooking is complete until all odours in the room have been removed. In addition, the fan should run for at least another 10 minutes to allow the atomic oxygen generated by the plasma to regenerate the activated charcoal. Finally, a short burst of ventilation can remove any excess humidity from the room caused by cooking. Any other use is considered improper and may result in personal injury or property damage.

5. Electrical installation

Since the universal plasma filter is operated with electric current, there is a risk of electric shock. Be sure to observe the following precautions:

- Only connect the universal plasma filter directly to a socket outlet that is socket outlet installed in accordance with regulations. Do not use extension cords or multiple sockets.
- Only operate the recirculating air plasma filter if the voltage indicated on the type plate matches the voltage of your socket.
- Make sure that the mains cable is not kinked or pinched and that the mains cable and the plasma convection filter do not come into contact with heat sources (e.g. hot plates).
- When unplugging the mains plug from the socket, always pull the mains plug.
- Never unscrew the recirculating air plasma filter or make any technical make any technical changes.
- Even when the recirculating air plasma filter is switched off, there is still voltage in the unit as long as the mains plug is inserted in the socket. The recirculating air plasma filter is only disconnected from the mains when the mains plug is pulled out.

6. In case of defective plasma recirculation filter

A defective plasma recirculation filter can cause property damage and injuries.

- Check the recirculation plasma filter for damage before installation. If there is any transport damage, contact the dealer from whom you purchased the recirculating air plasma filter immediately.
- Never operate a defective universal plasma filter.
- Never operate a universal plasma filter that has been dropped.
- If the mains cable is damaged, it must be replaced.
- The universal plasma filter does not contain any parts that you can repair yourself. **Repairs may only be carried out by persons authorised to do so.**

7. Technical data

Device type		Wall filter	
Voltage	230 – 240 V DC		
Nominal frequency	50 Hz		
Power consumption			
Operation	approx. 7 Watt		
Standby	0 Watt		
Max. Volume flow	750 m³/h		
Vmax Air flow	12,5 m/s		
Connection opening		150 mm ø	150 mm ø
Plasma source	PlasGlAiry 106©		
Dimension	216 mm	187 mm	280 mm
Weight	2,7 kg		
Labelling			
Disposal	Do not dispose of in household waste		
CE	The appliance complies with the EU directives that are binding for the CE marking.		

8. Installation

1. Place the plasma filter directly on the fan connection with the spigot.
2. Some cooker hoods may collide with control units, in such cases use the supplied extension piece to avoid this. The extension piece is placed on the fan connection. The pipe connection of the plasma filter is then inserted into the extension piece.
3. Connect the mains plug (see illustration „Scope of delivery“) to the mains socket and plug it into the mains socket of the plasma filter.

9. Maintenance

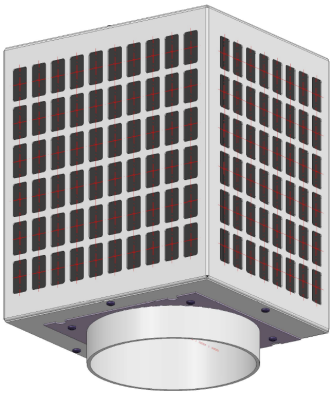
The plasma filter is practically maintenance-free. However, **after a total usage time of approx. 3,000 hours,** we recommend **replacing the activated charcoal mats.** This can be done at a specialist kitchen and furniture retailer.

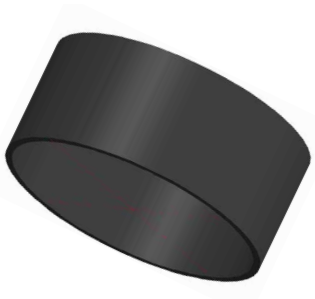
10. Disposal of packaging

Dispose of the transport packaging as environmentally friendly as possible. Returning the packaging materials to the material cycle saves raw materials and reduces the amount of waste.

11. Scope of delivery

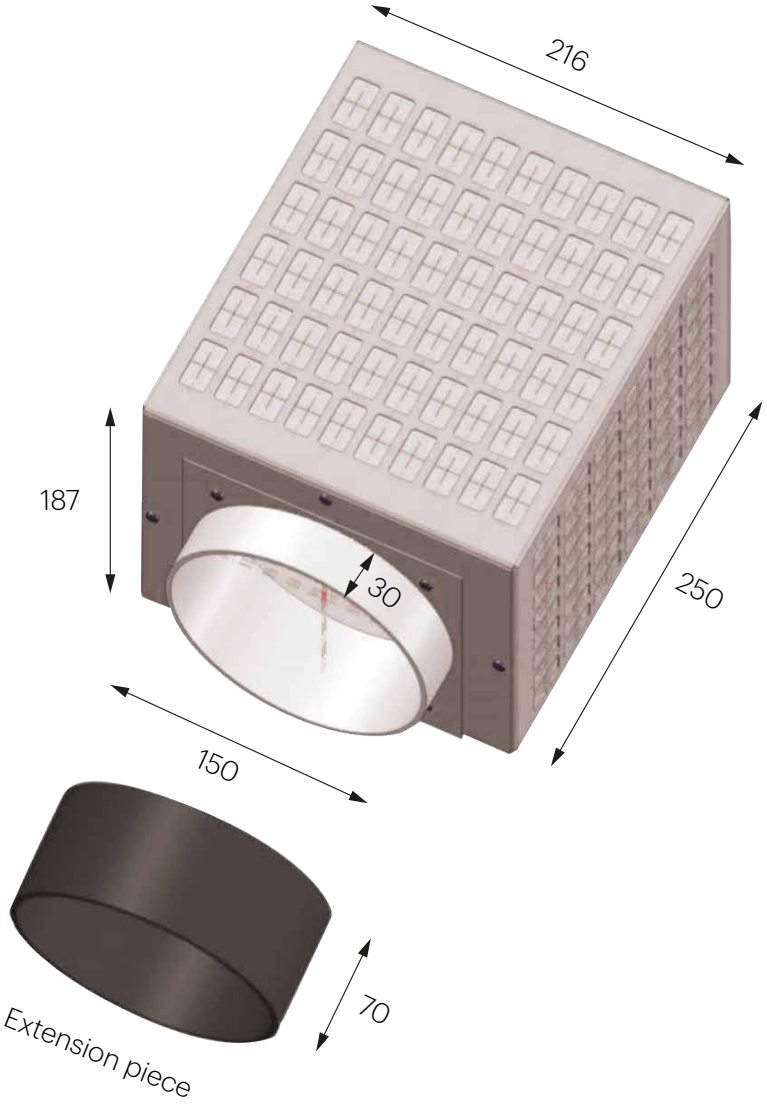
- Universal recirculation module with pressurised can Height 280 mm
- Extension socket, height 70 mm. This allows the filter to be set 70 mm higher.
- Power connection cable with earthing contact plug and cold appliance coupler







12. Drawings





Total installation height with cold appliance plug and extension piece approx. 350 mm







Addresses

Germany
oxytec GmbH
Geibelstr. 64 | 22303 Hamburg

Switzerland
oxytec AG
Bahnhofstr. 37 | 8001 Zurich

Reception of orders

Phone 00 49 40 480 967 73
Fax 00 49 40 480 967 72

Phone 00 41 44 214 6294
Fax 00 41 44 214 6519

Information

Website www.oxytec.com
Email order@oxytec.com

Website www.oxytec-ag.com
Email order@oxytec.com

oxytec ag
Bahnhofstraße 37
CH-8001 Zurich
oxytec@oxytec-ag.com

Company's head office: Zurich
HR CH-020.3.027.944-9
EORI-Number: DE1182145
UST-ID: DE 81 41 24 612
UID: CHE-111.788.373

EU-based storehouse:
Raiffeisenstraße 21
D-59757 Arnsberg