

Smoke Purifier AF800



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1. Product Overview

The AF800 Smoke Purifier is suitable for work areas such as laser cutting, mechanical processing, SMT reflow ovens, wave soldering, manual soldering workstations and assembly lines.

The system reliably filters dust, smoke and heavily contaminated exhaust air from these work areas. Thanks to the multi-stage filter system, the air volume can be continuously adjusted to the respective load.

Thanks to the filter system, the AF800 removes up to 99.97% of these particles. The filtered air can then be safely returned to the room.



Smoke Purifier AF800

2. Safety Instructions

Please read these instructions carefully before first use.

Remove all packaging before using the appliance.

If this appliance is used improperly or not in accordance with these instructions, the manufacturer accepts no liability and the warranty will be void.

Do not pull on the power cable to remove the plug from the socket. Always unplug the appliance from the mains when it is not in use.

This appliance is not suitable for persons with reduced physical or mental capabilities, or impaired sensory perception, or for persons lacking the necessary knowledge and experience.

This product is not suitable for children. The appliance is not a toy. Ensure that the appliance and the mains plug are kept out of reach of children under 8 years of age.

Do not leave the appliance unattended while it is connected to the mains supply.

The appliance must not be used if it shows visible damage, has been dropped, or is not functioning as intended.

Check the mains plug and power cable for any signs of damage or wear before use. Fully unwind the power cable before plugging the appliance into the socket. Do not run the power cable over sharp edges or heat sources. If the mains plug or power cable is damaged, it must be repaired before further use.

Do not open the appliance or any of its components (including the mains plug and cable). Repairs may only be carried out by authorised service centres.

Never immerse the appliance in water or other liquids.

Please retain these instructions for future reference.

This product must not be used in environments with high temperatures (ambient temperature above 60 °C), nor in areas containing flammable or explosive substances, liquids, or oil contamination.

During operation, the temperature of the intake air must be between room temperature and 50 °C. Use outside this temperature range is strictly prohibited.

Voltages of up to 310 V are present inside the appliance. Persons without appropriate technical expertise must not open the rear of the appliance or inspect it.

The appliance must be properly earthed during operation.

The filter cartridge or insert must not be removed or installed while the appliance is in operation.

The humidity of the intake air should be between 40% and 80%. High humidity may quickly damage the filter elements and impair the internal electronics of the appliance. Use in environments with humidity above 80% is strictly prohibited.

The pre-filter is a disposable consumable item and must not be washed or reused. Please replace the pre-filter regularly in accordance with the manufacturer's specifications. Use without a pre-filter, or with inferior or washed filters, is not permitted, as this may quickly clog and damage the subsequent filter stages, potentially causing more extensive damage.

The appliance must never be operated without the filter cartridge installed. Otherwise, smoke or dust particles may enter the appliance directly and damage the fan and

control system. Any resulting damage must be repaired at the user's expense.

Operation of the appliance with heavily clogged filter cartridges or pre-filters is not permitted. This significantly reduces the service life of the appliance and may cause damage. The appliance should be cleaned and maintained regularly, and the filters replaced as required, to ensure proper operation.

If the suction performance decreases or the odour filter loses its effectiveness, it is not permitted to reduce the number of filter stages or remove the pre-filter. Always use the factory-specified configuration of pre-filter and filter elements.

Opening the appliance for maintenance is not permitted. The warranty seal on the appliance is the sole proof of your entitlement to customer service. Please do not remove or damage this seal.

Tip: Keep the original packaging. The Smoke Purifier is optimally protected in it and can be transported safely in the event of a warranty claim.

This appliance contains raw materials that can be recycled. Please dispose of the appliance in an environmentally responsible manner at a designated collection point provided by your local authority.

This appliance complies with Protection Class I and may only be connected to a properly installed and earthed socket.



General
Information
Hazard
Symbol



Fire Hazard



Risk of Cuts



Electrical
Voltage



Unplug the
Power Plug



The filter should be placed on a stable, level surface, away from heat sources and flammable materials.

The air inlet and outlet must not be obstructed. Ensure that the exhaust hose is properly connected and free from kinks.



During operation, the temperature of the intake air must be between room temperature and 50 °C. Use outside this temperature range is strictly prohibited.



The power supply must be earthed during operation. The internal electrical voltage of the product is 220–240 V.



Filter elements must not be removed or installed while the machine is in operation. Hands or other objects must not come into contact with the rotating impeller. Disassembly of the product for inspection or maintenance must only be carried out by qualified personnel.



Note:

When you are finished using the smoke purifier first turn off the air flow, switch off the power switch and unplug the power cord.

Declaration of Conformity (Europe and Turkey only)

We, medacom Gesellschaft für Informationssysteme mbH – R.-Samesreuther-Straße 25, 35510 Butzbach, Germany, hereby declare that this product complies with all relevant directives and regulations applicable within the European Community.



WEEE-Reg.Nr. DE72497967

3. Product Details

Brushless motor with low noise levels, high rotational speed and stable operation. It offers a long service life, low energy consumption and high efficiency (maintenance-free, with no motor wear parts).

The centrifugal fan design ensures smooth and stable operation even under continuous load. It generates a high air volume, delivers strong suction performance and enables efficient airflow through the filter system, thereby maximising the overall performance of the Smoke Purifier.

The appliance is equipped with stepless speed control and can be operated by remote control, allowing the airflow rate to be adjusted flexibly.

The multi-stage filtration system efficiently removes toxic and harmful particles as well as pollutants from smoke and exhaust air, thereby providing reliable protection for both the environment and health.

All filter elements can be replaced individually. This extends the service life of the filters and reduces maintenance costs.

Simple and quick assembly and disassembly ensure straightforward handling and help maintain a clean and orderly workplace.

Robust full-metal frame construction with high resistance to impact and vibration.

Fitted with castors on the underside, allowing the appliance to be moved easily.

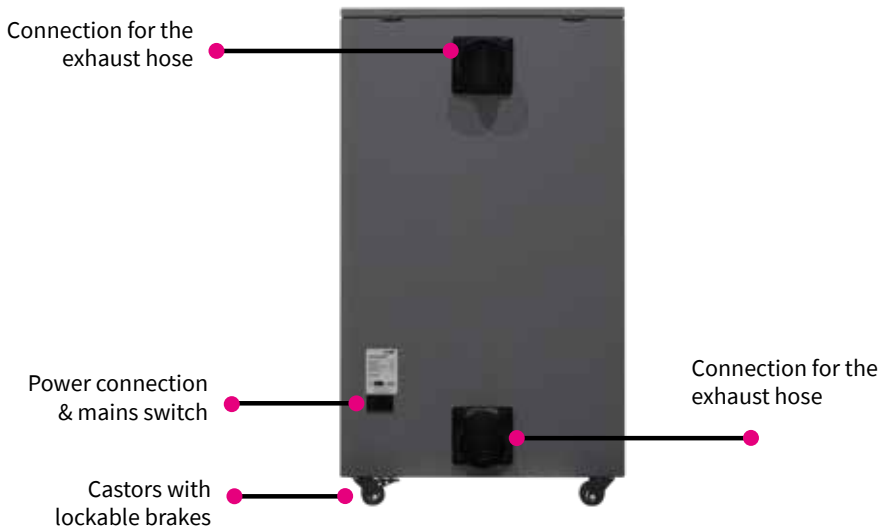
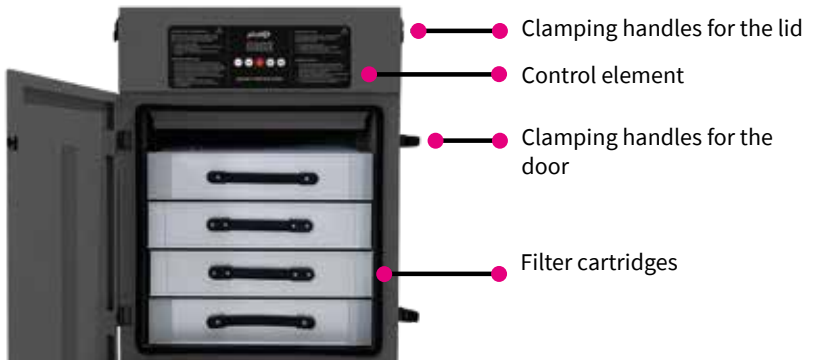


Scope of Delivery – AF800

- 1 × Smoke Purifier AF800
- 1 × Mains cable
- 1 × Filter system
- 1 × Remote control
- 1 × Instruction manual
- 1 × Warranty card

Technical Specifications – AF800

- Voltage: 220–240 V AC, 50 Hz
- Power: 800 W
- Noise level: 75–80 dB
- Airflow: up to 820 m³/h
- Weight: 80 kg
- Dimensions: 580 × 415 × 1010 mm
- Protection Class: I



4. Pre-Commissioning Checks

Please check the following points before first use to ensure safe and reliable operation:

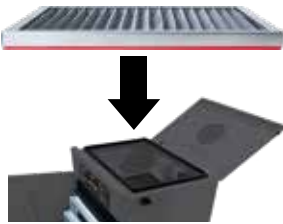
- Check whether the appliance shows any external damage.
- Make sure the mains switch is turned off.
- Verify that the filter element is correctly and evenly installed in the appliance.
- Ensure that the appliance cover and housing are firmly and securely mounted.

5. Instructions for Replacing the Filter Cartridges

- Open the appliance door by releasing the side latches.
- Remove the filter cartridges, starting with the top level.
- Insert the new filter cartridges individually from bottom to top, ensuring that the specified order is observed.

Warning

- Do not mix up the position of the individual filter stages. The cartridges must be installed according to the direction of the arrows printed on them.
- Do not touch the internal air inlet of the fan with your hands.



Spark Arrestor

Blocks open flame sources such as sparks and glowing particles in the smoke. Integrated into the filter system, it prevents sparks, glowing particles and hot residues from reaching the subsequent filter stages. It protects the appliance and the surrounding area, reduces fire risks and increases the service life of the downstream filter elements. It is installed at the top, in the lid of the AF800.



Pre-filter fleece ePM10 50% in accordance with ISO 16890

Removes coarse dust particles and protects the subsequent filter stages.



2 × HEPA Filters

Aluminium alloy frame with a secure fit of the filter media to prevent edge leakage. Manufactured from glass fibre filter paper, offering stable performance and high dust-holding capacity. Filtration efficiency (H13): particle size > 0.3 µm, separation efficiency 99.97%–99.99%.



2 × High-Efficiency Activated Carbon Filters

Filter type: activated carbon with an iodine value of 1500. Reinforced metal frame for high stability. Filled with coconut shell activated carbon. Odour removal efficiency of up to 98%.

6. Cleaning, Maintenance and Replacement of the Intake Housing



- Open the appliance door by releasing the side latches.
- Remove the filter cartridges, starting with the top level.
- After cleaning or replacement, reinsert the filter cartridges individually from bottom to top in the specified order.

Warning

- The intake housing must be cleaned regularly (recommended at least once per week) to prevent premature clogging of the filter system and to extend the service life of the main filter cartridge.

7. Connecting the Exhaust Hose

- Take the extraction hose out of the packaging and attach it to the flange on the top of the appliance.
- Rotate the hose body, align the extraction hood with the area where smoke and dust are generated, and adjust the distance of the intake opening according to the working conditions.

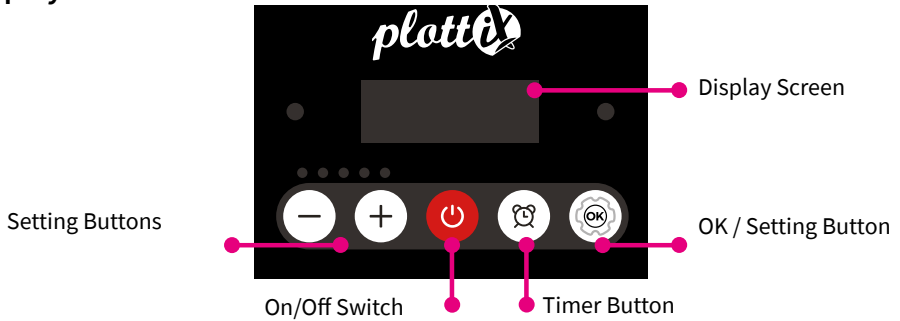


Warning

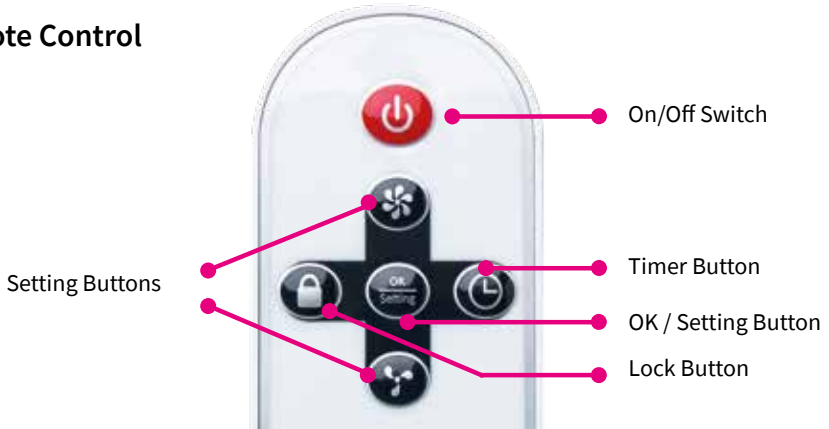
- When positioning the exhaust hose, ensure as large a bend radius as possible. Kinks significantly reduce suction performance. The extraction hood should be directed straight at the work area, keeping the distance ideally within 150 mm. Do not use the appliance in areas with strong air currents, as this can reduce or completely nullify the suction efficiency.

8. Description of the Control Panels

Display



Remote Control



Setting Buttons

■ Button for adjusting the airflow. Press this button during operation to change the displayed airflow in increments of 10. At level 10, the appliance runs at maximum speed.

On/Off Switch

■ Main standby switch for the entire appliance. Press the red start button to turn the appliance on; press again to stop it. Note: If the appliance will not be used for an extended period, turn off the main switch and unplug the power cord.

Timer Button

While the appliance is running, pressing this button displays “HXXX” on the screen. Use the airflow increase or decrease buttons to set the automatic shutdown time. Adjust the units, tens, and hundreds digits, then press “OK” to confirm the timer.

“XXX” indicates the set runtime in minutes (maximum 300 minutes, minimum 1 minute)

Press the timer button again to check the remaining time; the display will show “HXXX” again.

Setting “H000” deactivates the timer.

OK / Settings Button

If the appliance enters an alarm state and a signal sounds, press this button once to stop the sound. If there is no alarm, pressing this button allows you to check the total operating time of the appliance.

Lock Button

While the appliance is running, pressing this button locks all functions on the control panel. The panel can only be used again after pressing the button a second time or by disconnecting the appliance from the mains and restarting it.

9. Use and Maintenance of the Filter System

Pre-Filter Fleece ePM10 50% (according to ISO 16890)

Application: Open the front door and insert the pre-filter fleece into the designated frame.

Maintenance: Replace the pre-filter fleece with a new one as soon as it becomes heavily soiled (approximately 70% of the surface covered) or can no longer be cleaned.

High-Efficiency HEPA Filter

Application: Place the filter element beneath the pre-filter fleece.

Maintenance: If the filter element becomes heavily soiled and suction performance is significantly reduced, clean it immediately. If cleaning is no longer possible, replace the filter element.

High-Efficiency Activated Carbon Filter

Application: Insert the filter element into the cartridge holder on the lower level of the dust filter.

Maintenance: If the filter element no longer effectively removes odours, replace the cartridge with a new element.

10. Troubleshooting

Ensure that the appliance is switched off and unplugged before performing any checks!

Problem 1: The appliance is running, but the airflow is very weak and suction performance is significantly reduced.

Cause: The air inlet is blocked, or there is a foreign object in the hose. The filter may be saturated, clogged, and triggering an alarm.

Solution: Switch off the appliance and open the lid. Check whether the air inlet or hose is blocked by foreign objects and ensure the air opening is clear. If suction performance returns to normal with an empty appliance, the likely cause is a saturated filter, which should then be replaced.

Problem 2: The appliance restarts immediately after automatic shutdown, and the above problem repeats.

Cause: The internal airflow is restricted, increasing the filter resistance. This can cause an excessive starting current for the fan and trigger the appliance's automatic protective shutdown.

Solution: Switch off the appliance and open the top cover. Check whether any foreign objects are blocking the air inlet. If no obstruction is found, set the airflow to minimum and restart the appliance. Afterwards, adjust the airflow to the desired setting.



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medacom GmbH • R.-Samesreuther Str. 25 • 35510 Butzbach • Germany