

Smoke Purifier AF150 & AF200



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1. Product Overview

This manual applies to the smoke purifier systems AF150 and AF200. Both models are compatible with most common laser systems.

Compatible hose sizes: 75 - 85 mm and 55 - 65 mm

The plottiX smoke purifiers are suitable for all tasks where smoke, fumes, or other pollutants are released into the air – for example, during laser engraving, soldering, printing processes, or anywhere odours, dust, or toxic gases occur.

Thanks to the three-stage filtration system, the devices remove up to 99.97% of these particles. The filtered air can then be safely returned to the room.



**Smoke Purifier
AF150**



**Smoke Purifier
AF200**

2. Safety Instructions

■ Carefully read this manual before first use.

■ Remove all packaging before using the device.

■ This device is intended for household use. The manufacturer accepts no liability and the warranty will be void if the device is used improperly or contrary to this manual.

■ Do not pull the power cord to unplug the device. Always unplug the device when it is not in use.

■ This device is not suitable for individuals with reduced physical, sensory, or mental capabilities, or those lacking knowledge and experience.

■ This product is not suitable for children. It is not a toy. Ensure the device and power plug are kept out of reach of children under 8 years old.

■ Do not leave the device unattended while it is connected to the power supply.

- Do not use the device if it shows visible damage, has been dropped, or is not functioning as intended.
- Check the power plug and cord for any damage or wear before using the device. Fully unwind the power cord before plugging it into the socket. Do not run the power cord over sharp edges or near heat sources. If the power plug or cord is damaged, it must be repaired before use.
- Do not open the device or any components (including the power plug and cord). Repairs must only be carried out by authorised service centres.
- Never immerse the device in water or other liquids.
- Please keep this manual for future reference!
- Permissible temperature range for the air intake (including gas and dust): +5 °C to +60 °C.
- Do not use the device outside this temperature range.
- The humidity of the intake gases and dust particles must be between 40% and 80%.
- Excessive humidity will quickly reduce the effectiveness of the filter element and may damage the internal electronics. Never use the device in humidity above 80%.
- Operating the device without a filter element will damage the fan and control system. Any damage caused by ignoring these instructions is the responsibility of the user.
- Tip: Keep the original packaging. It provides optimal protection for the smoke purifier and ensures safe transport in case of a warranty claim.
- This device contains recyclable materials. Please dispose of it responsibly at a local recycling centre.

Filter Safety Instructions

- The HEPA- and activated carbon filter is a disposable component and must be replaced once it becomes clogged or no longer filters effectively (do not wash or reuse).
- Only use original replacement filters.
- The device must not be operated without a pre-filter mat or with a heavily worn filter.
- Do not continue using the device if the filter is clogged.
- A clogged filter significantly reduces the lifespan of the device and may cause damage. Clean and maintain the device regularly.
- It is recommended to replace the filters every three months to maintain optimal filtration performance. Regularly check the condition of the filters and replace them as needed.



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 supply and exhaust must not be blocked.
Make sure that the exhaust hose is connected correctly and is not kinked.



This product must not be used in high-temperature environments (above 80°C) or in flammable, explosive, or greasy environments.



The supply wire must be grounded during operation. The internal electric voltage of the product is as high as 230V AC, 50 Hz.



Do not remove or install filter elements 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 be carried out by qualified professionals

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

Smoke Purifier AF150

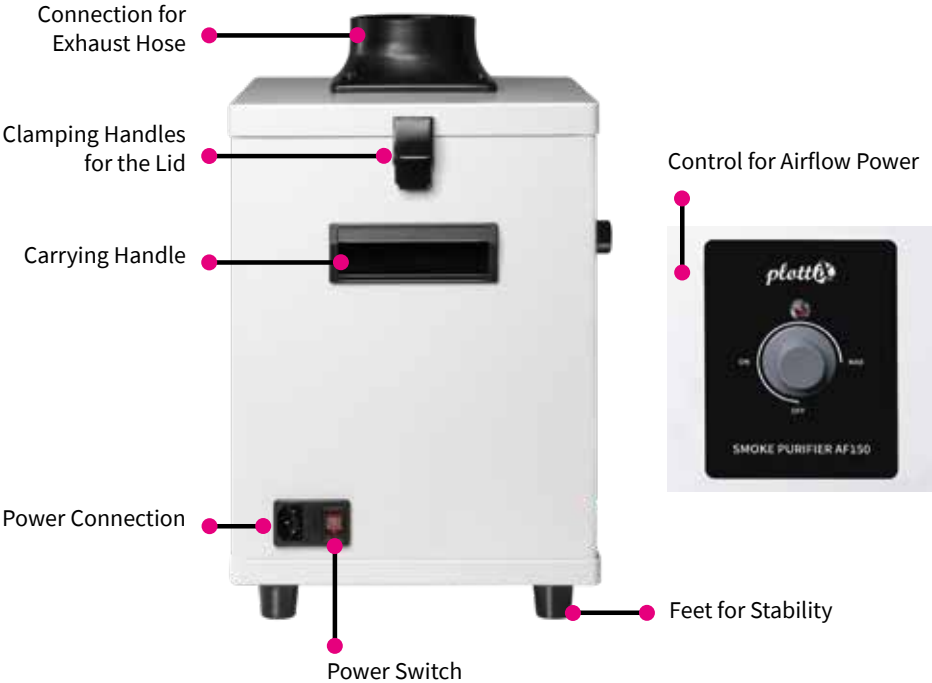


Scope of Delivery

- 1 x Smoke Purifier AF150
- 1 x Power Cable
- 2 x Hose Adapters (1 x 50 mm / 1 x 65 mm)
- 4 x Hose Clamps (2 per adapter)
- 1 x Pre-Filter Mat
- 1 x Hepa Filter
- 1 x Activated Carbon Filter

Technical Specifications

- Voltage: 230V AC, 50 Hz
- Power: 150W
- Noise Level: <55dB
- Airflow: up to 278m³/h
- Weight: 9.13kg



Smoke Purifier AF200



Scope of Delivery

- 1 x Smoke Purifier AF200
- 1 x Power Cable
- 2 x Hose Adapters (1 x 50 mm / 1 x 65 mm)
- 4 x Hose Clamps (2 per adapter)
- 1 x Pre-Filter Mat
- 1 x Hepa Filter
- 1 x Activated Carbon Filter

Technical Specifications

- Voltage: 230V AC, 50 Hz
- Power: 200W
- Noise Level: <55dB
- Airflow: up to 330m³/h
- Weight: 14kg



4. Use of Filters

It is recommended to replace the filters every three months to maintain filtration performance. Regularly check the condition of the filters and replace them if necessary.



Open the clamping handles on the sides of your smoke purifier and remove the lid.



Place the filter elements (pre-filter mat / intermediate filter / main filter) into your smoke purifier.
– See illustration below.



Close the lid again using the clamping handles. Ensure that the lid is properly seated and securely closed.



Pre-Filter Mat

■ The pre-filter mat is placed at the top of the filter box above the HEPA filter.

The pre-filter mat must be checked regularly and cleaned or replaced if necessary.

HEPA Filter

■ Insert the intermediate filter into the filter box with the handle side facing upwards.

Clean this filter immediately if accumulated dust noticeably reduces suction performance. If the filter can no longer be cleaned, please replace it with a new one.

Activated Carbon Filter

■ Insert the filter box into the device. Place the activated carbon filter so that the notch/opening is facing upwards.

If the filter is no longer effective in eliminating odors, replace it with a new one.

5. Connecting the Exhaust Hose



Take the hose of your laser and attach it to the device lid using the appropriate hose adapter.

When positioning the exhaust hose, ensure that you maintain the largest possible bending radius. Bends significantly reduce suction performance.

Do not place the exhaust filter in areas with strong drafts, as these can impair suction performance.

6. Operating the Smoke Purifier

Before switching on the device for the first time, please ensure the following conditions are met to guarantee safe operation:

- The device is undamaged.
- The power switch is set to OFF.
- The filter box is correctly installed.
- The lid and housing are securely closed.
- The rotary knob for speed control is set to OFF.



The smoke purifier comes with a power plug, which should be connected on the left side of the device. The purifier is switched on using the red power switch on the same side. Always turn on the purifier only when the rotary knob is set to OFF.



Note:

When you are no longer using the smoke purifier, first turn the rotary knob to OFF, switch off the power switch, and unplug the power cord.



Turn the knob to start the machine and adjust the airflow accordingly.

The airflow should be set to match the actual requirements.

Avoid setting it too high or too low, as a strong airflow increases energy consumption and noise levels.

7. Troubleshooting

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

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

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

Solution: Turn off the machine and open the lid. Check if the air inlet or hose is blocked by foreign objects and ensure the air opening is clear. If the suction power returns to normal when the device is empty, the likely cause is a saturated filter, which must then be replaced.

Problem 2: The machine automatically shuts off shortly after starting. The same issue occurs even after restarting.

Cause: The airflow is blocked, causing the fan's starting current to increase significantly, and the machine automatically shuts off as a protective measure.

Solution: Turn off the machine and open the lid. Check if a foreign object is blocking the air inlet. Set the rotary knob to the lowest level and restart the machine. It should now function normally.



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