

Creality AMUS-HYZ-Falcon-Smoke-Purifier

Creality Falcon Smoke Purifier Instruction Manual

Model: AMUS-HYZ-Falcon-Smoke-Purifier

1. INTRODUCTION

The Creality Falcon Smoke Purifier is designed to enhance your laser engraving experience by effectively filtering smoke and fumes. This device features a 3-stage filtration system, a 180W motor for efficient extraction, and operates at a low noise level. This manual provides essential information for the safe and effective use, setup, operation, and maintenance of your smoke purifier.

2. SAFETY INFORMATION

- **Power Supply:** This machine supports 110V input power only. Using a voltage greater than 110V will activate the internal fuse protection, preventing the machine from starting. Ensure your power source matches this requirement.
- **Sealed Operation:** The fume extractor lid features a highly sealed structure with metal latches. Ensure these latches are completely sealed during operation to prevent any smoke leakage and maintain purification efficiency.
- **Exhaust Safety:** The gas expelled from the exhaust port after filtration is considered safe and harmless under normal operating conditions.
- **Ventilation:** While the purifier significantly reduces fumes, always operate in a well-ventilated area.
- **Filter Maintenance:** Regularly inspect and replace filters as instructed to maintain optimal performance and safety.

3. PRODUCT OVERVIEW

The Creality Falcon Smoke Purifier is engineered for effective fume extraction during laser engraving. Key features include:

- **High Power & Low Noise:** Equipped with a 180W motor for strong smoke absorption, operating at less than

55dB for a quiet working environment.

- **High Efficiency 3-Layer Filtration:** Utilizes a multi-layer system including a pre-filter, efficient filter, and activated carbon filter, achieving a 99.97% purification rate.
- **Wide Compatibility:** Designed to work with Creality Falcon/Falcon2 engraving machines (with enclosure) and Falcon2 Pro series models, as well as other enclosed laser engravers.
- **User-Friendly Design:** Features handles and wheels for easy mobility, and air vents on both sides for improved ventilation.



Figure 3.1: Creality Falcon Smoke Purifier with its components: main unit, pre-filters, efficient filter, activated carbon filter, hose clamp, and exhaust adapter. This image displays the Creality Falcon Smoke Purifier unit along with its key components, including the multi-layer filtration system and connection accessories.

4. SETUP

The Creality Falcon Smoke Purifier comes pre-assembled for ease of use. Follow these steps for initial setup:

1. **Placement:** Position the smoke purifier on a stable, level surface near your laser engraver. Ensure adequate space around the unit for proper airflow.
2. **Connection:** Connect the smoke purifier to your laser engraver's enclosure using an appropriate exhaust hose (not included). The purifier can be used with engraver enclosures equipped with an exhaust hose or directly with Creality Falcon2 Pro series engraving machines.
3. **Power Connection:** Plug the power cord into a 110V power outlet. Ensure the power switch on the unit is in the 'OFF' position before plugging it in.

Preassembled and easy to use



Figure 4.1: The smoke purifier is preassembled and designed for easy setup, requiring minimal effort to begin operation.

5. OPERATING INSTRUCTIONS

Operating the Creality Falcon Smoke Purifier is straightforward:

1. **Power On:** Flip the main power switch to the 'ON' position.
2. **Adjust Purification Speed:** Use the control knob on the front panel to adjust the purification speed from minimum to maximum, depending on the intensity of smoke and fumes generated by your laser engraver.
3. **Monitor Performance:** Observe the air quality during engraving. Adjust the speed as necessary to maintain a clear working environment.
4. **Power Off:** After use, turn the control knob to the 'OFF' position and then flip the main power switch to 'OFF'.

Low-dB Noise <55dB

Strong purification and low noise, creating a quiet and safe working environment.



Figure 5.1: An image highlighting the low noise operation of the smoke purifier, with a smartphone showing a 50 dB reading, confirming its quiet performance.



Figure 5.2: This visual comparison demonstrates the effectiveness of the smoke purifier, showing a laser engraver producing heavy smoke 'Before' and a clear environment 'After' using the purifier.

6. MAINTENANCE

Regular maintenance, particularly filter replacement, is crucial for the optimal performance and longevity of your smoke purifier.

6.1. 3-Layer Filtration System

The purifier employs a robust 3-layer filtration system:

- **Pre-filter:** Captures larger visible particles, such as accumulated dust.
- **Efficient Filter:** With a honeycomb structure, capable of filtering 99.98% of 0.03µm particles.
- **Activated Carbon Filter:** Absorbs harmful gases and unpleasant odors.

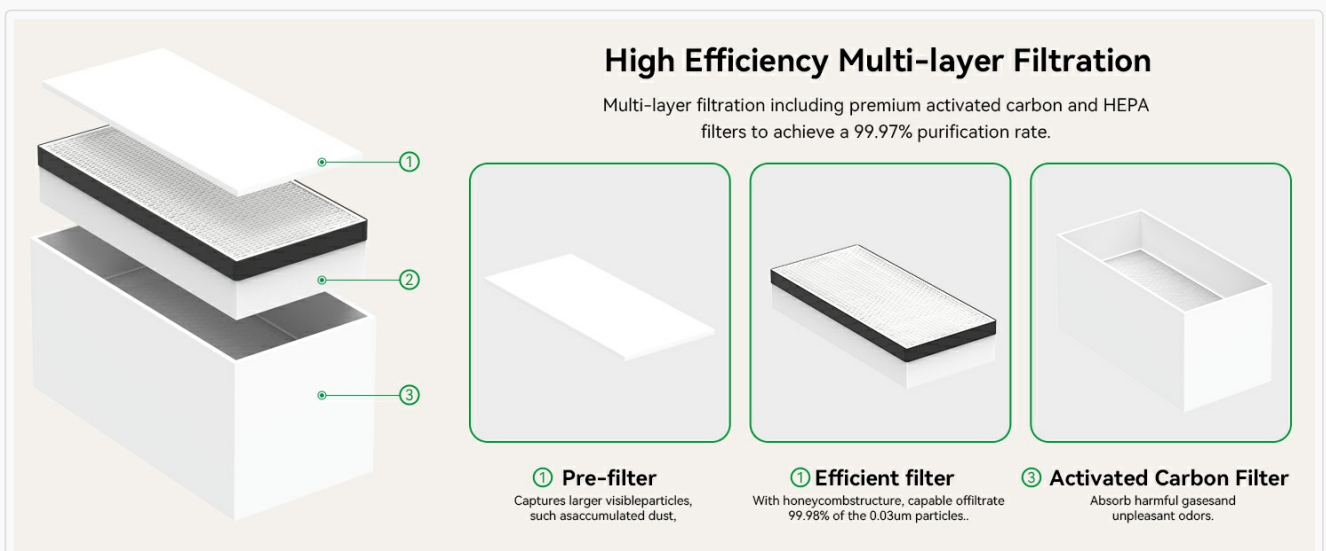


Figure 6.1: A detailed diagram explaining the multi-layer filtration process, showing how the pre-filter, efficient filter, and activated carbon filter work together to purify air.

6.2. Filter Replacement Procedure

The filters are designed for easy replacement. Replace filters when you notice a decrease in purification

effectiveness or increased odors.

1. **Unbuckle and Remove Cover:** Unbuckle the metal latches on the lid and carefully remove the top cover of the purifier.
2. **Remove Used Filter Kit:** Carefully lift out the used 3-layer filter kit from the unit. Dispose of the old filters responsibly.
3. **Insert New Replacement Kit:** Place the new 3-layer filter kit into the unit, ensuring it is seated correctly.
4. **Cover and Secure:** Replace the lid and fasten the metal latches securely. The purifier is now ready for use.

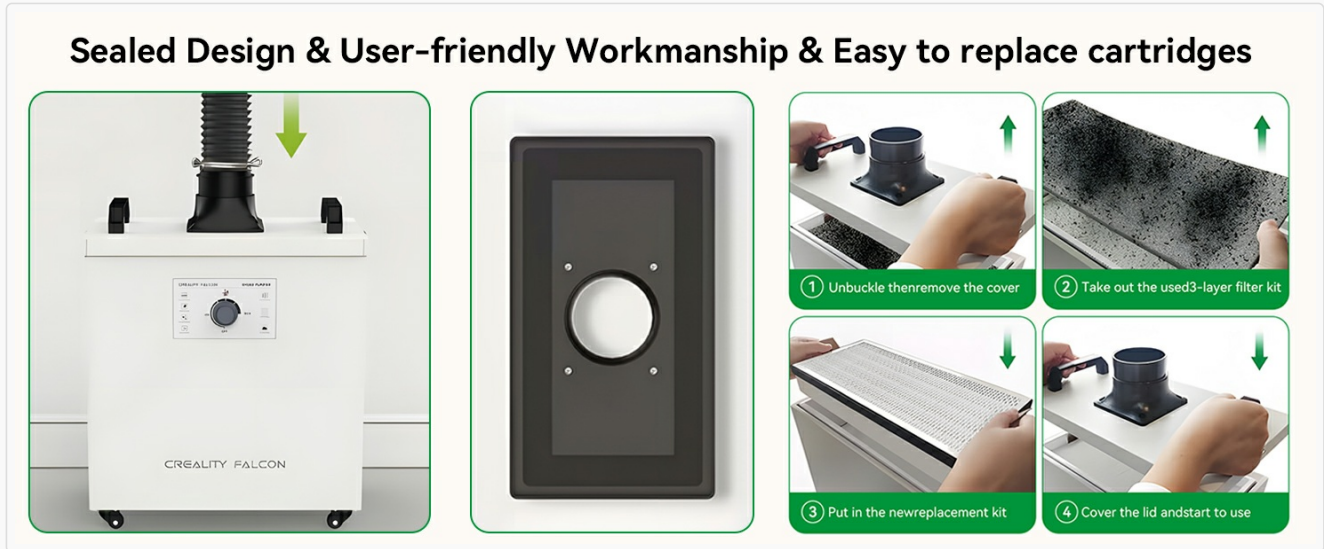


Figure 6.2: This image provides a visual guide for filter replacement, detailing the four steps: unbuckling the lid, removing the used filter kit, inserting the new kit, and securing the lid.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your Creality Falcon Smoke Purifier.

- **Unit Does Not Power On:**

- Check if the power cord is securely plugged into a 110V outlet.
- Verify that the main power switch is in the 'ON' position.
- Ensure the input voltage is 110V. If a higher voltage was used, the internal fuse might have activated for protection. Contact support if the unit remains unresponsive after checking power.

- **Reduced Purification Effectiveness / Persistent Odors:**

- The filters may be saturated and require replacement. Refer to Section 6.2 for filter replacement instructions.
- Ensure the lid is completely sealed with the metal latches to prevent smoke leakage.
- Verify that the exhaust hose connection to the engraver enclosure is secure and free of leaks.
- Confirm the purification speed is set appropriately for the amount of smoke being generated.

- **Unusual Noise During Operation:**

- Check for any obstructions in the air intake or exhaust ports.
- Ensure the unit is placed on a stable, flat surface to prevent vibrations.
- If the noise persists and is abnormal, power off the unit and contact customer support.

8. SPECIFICATIONS

Parameter	Value
Product Name	Creality Falcon Smoke Purifier
Model Number	AMUS-HYZ-Falcon-Smoke-Purifier
Sound Level	Less than 55 dB
Product Dimensions (D x W x H)	9.3" x 16.1" x 18" (238mm x 414mm x 458mm)
Net Weight	33.7 pounds (15.3 kg)
Input Voltage	110V
Power	180 watts
Controller Type	Button Control
Filtration System	3-Stage (Pre-filter, Efficient Filter, Activated Carbon Filter)
Purification Rate	99.97%

Product Size



Figure 8.1: An image detailing the physical dimensions of the smoke purifier (18 inches high, 16.0 inches wide, 9.3 inches deep) and highlighting its handles and wheels for portability.

Parameters



Product Name

Crealty Falcon Smoke Purifier

Sound Leve

55dB

Product Size

414*238*458mm

Net weight

15.3kg

Input Voltage

110V/220V

Power

180W

Figure 8.2: This image presents a table summarizing the technical specifications of the Crealty Falcon Smoke Purifier, such as its dimensions, weight, power, and noise level.

9. COMPATIBILITY

The Crealty Falcon Smoke Purifier is designed for broad compatibility with laser engraving equipment:

- Well-matched with Crealty Falcon and Falcon2 engraving machines (when used with an enclosure).
- Directly compatible with Crealty Falcon2 Pro series models.
- Also compatible with most other enclosed laser engravers.

Compatible with Crealty Laser Engravers and Other Engravers



Figure 9.1: This image illustrates the smoke purifier's compatibility, showing it connected to different Crealty Falcon laser engraver models and other enclosed engravers.

10. WARRANTY AND SUPPORT

10.1. Warranty Information

The Crealty Falcon Smoke Purifier comes with a **1-year warranty** from the date of purchase. This warranty covers manufacturing defects and malfunctions under normal use. Please retain your proof of purchase for warranty claims.

10.2. Customer Support

For technical assistance, troubleshooting, or warranty inquiries, please contact Crealty customer support. You can find contact information and additional resources on the official Crealty website or through the Crealty Store on Amazon:

[Visit the Crealty Store on Amazon](#)