



FC2001A Fume Extractor

User Manual



◆ Thank you for purchasing the FC2001A Fume Extractor. Please read this manual thoroughly before use and retain it for future reference.

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1. Product Overview

This product features a comprehensive purification system specifically engineered by our company for workplaces including laser cutting, mechanical processing, SMT reflow soldering, wave soldering, manual soldering stations, mechanical polishing, and manual polishing. Its filtration system efficiently purifies dust, fumes, and exhaust gases generated in these environments. Equipped with a multi-layer filtration device, the system allows airflow adjustment based on exhaust volume. With a purification rate of 99.97%, the cleaned air can be directly discharged indoors.

2. Product Features

1. High-quality motor offering low noise, high speed, stable operation, long lifespan, low power consumption, and high efficiency (zero motor maintenance and no consumables required).
2. Vortex fan design that is fatigue-resistant, operates smoothly, and delivers strong airflow with powerful suction and high efficiency.
3. Composite filter element design ensuring complete filtration of toxic and harmful substances in fumes, effectively protecting the environment and human health.
4. Individually replaceable filter cartridges extending filter lifespan and reducing operational costs.
5. Easy and convenient installation and disassembly, facilitating a neat and organized workspace.
6. All-metal frame construction providing resistance to impact and vibration.

3. Unboxing Inspection

Please carefully inspect the following accessories for missing items or damage. If any are missing or damaged, contact the manufacturer or distributor promptly.

Part Name	Quantity	Size	Model	Notes
Mainframe	1 Unit	184*184*216mm	FC2001A	
Power cord	1 PCS	1.5M/10A		
Cigarette smoking pipe	1 PCS			
Warranty Card	1 PCS			
Instruction manual	1 PCS			
Filter cartridge	1 Set			Installed in the machine

4. Pre-Use Inspection

◆ Before first-time use, verify the following items to ensure safe and reliable operation:

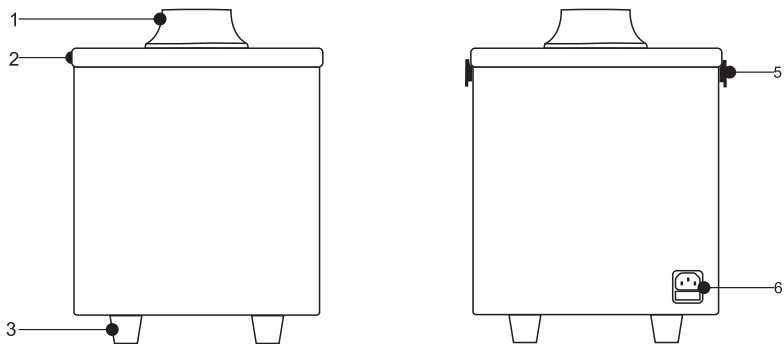
1. Check for any external damage to the unit.
2. Ensure the power switch is in the off position.
3. Confirm the internal filter cartridge is properly seated.
4. Verify the unit is securely installed.

5. Safety Summary

◆ Familiarize yourself with the following safety precautions to prevent fires and injuries:

1. Do not use this product in high-temperature environments (ambient temperature exceeding 60°C), or in flammable, explosive, wet, or oil-contaminated areas.
2. The power cord must be grounded during use.
3. The internal voltage of the product reaches up to 310V. Unauthorized personnel are prohibited from opening the back panel for inspection.

6. Product Structure and Dimensions



Part Name
1-Air intake
2-Top cover
3-Legs

Part Name
4-Alloy buckles
5-Power supply base

7. Performance Specifications

Parameters	Model	FC2001A
Into the socket		Φ 60
Input Voltage		100-240V
Power		60W
System traffic		120M ³ /h
Wind Speed		5.2M/S
Filtration effect		0.3μm/99.97%
Number of filter layers		1 floor
Noise		≤ 52dB
Body size		184*184*216mm
Weight		3.01KG

8. Operating Instructions

8.1 Filter Cartridge Replacement

Open the top cover of the unit. Insert the 3-in-1 integrated filter (combining high-efficiency, medium-efficiency, and primary filters) into the chassis in the correct orientation. Close the top cover and engage the buckles on both sides to secure it.

Note: The FC2001A utilizes an integrated 3-in-1 filter; installing this single unit is sufficient.



8.2 Air Inlet Housing Cleaning, Maintenance, and Replacement

1. Release the buckles on both sides and open the top cover.
2. Pull the pull tab firmly starting from the top to remove the filter.
3. After replacing the filter cartridge, reinstall it in the specified bottom-to-top order.

Important

Clean the air inlet housing regularly (at least once per week) to prevent premature clogging of the filtration system and extend the main filter cartridge's lifespan.

8.3 Fume Tube Installation

1. Unpack the fume tube and attach it to the flange located at the top rear of the unit.
2. Rotate the tube to align the fume hood with the fume-generating area, adjusting the distance based on usage requirements.

Important Notes

- When adjusting the fume tube direction, keep it in a smooth, gentle curve to avoid reducing suction power. Position the air inlet facing the work area, maintaining a distance of no more than 150mm.
- Do not use in areas with strong air currents, as this will reduce or eliminate suction.

8.4 Key Function Descriptions

Power Button

This serves as the unit's standby switch. Press it once to start the unit; press it again to stop operation.

Note: For extended shutdowns, turn off the main power switch and unplug the power cord.



Figure 1



Figure 2

9. Troubleshooting

Always disconnect the power supply before inspecting or servicing the equipment!

Phenomenon 1: Weak Airflow and Significantly Reduced Suction

Cause: Clogged air inlet, foreign objects in the tube, or saturated/clogged filter cartridge (may trigger a blockage alert).

Solution: Turn off the power, open the top cover, and check for foreign objects blocking the air inlet or outlet. If the empty unit has normal suction, replace the filter cartridge.

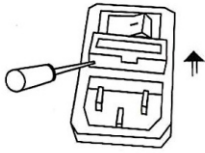
Phenomenon 2: Automatic Shutdown Immediately After Startup (Repeats When Restarted)

Cause: Insufficient internal airflow due to excessive filter cartridge resistance, causing excessive fan startup current and triggering automatic shutdown protection.

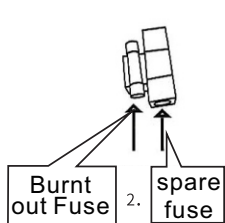
Solution: Turn off the power, open the top cover, and check for air inlet blockages. If no issues are found, set the airflow to the minimum setting before restarting, then adjust to the desired level.

Phenomenon 3: Power Switch On, But Indicator Light Not Illuminated
Cause: The fuse near the power supply may be blown.

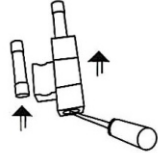
Replacement Steps:



1. Turn off the power and pry open the fuse holder with a screwdriver.



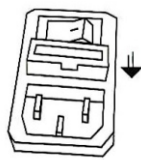
2.



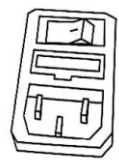
3. Remove the blown fuse using a screwdriver.



4. Install the replacement fuse.



5. Reattach the fuse holder.



6. Complete the replacement process.

Note: If issues persist after troubleshooting, contact the factory or distributor.

10. Important Cautions

1. Operate the unit within the specified rated voltage range (refer to the power label on the unit). Never use it if the voltage is too high or too low. If ambient voltage is unstable, turn off the unit and unplug it immediately; resume use once voltage stabilizes.

2. The ambient temperature for gases and dust drawn into the air inlet must be between 0°C and 50°C. Do not use the unit outside this range.

3. The humidity of incoming gases and dust should be 40%-80%. Excessive humidity will quickly render the filter element ineffective and damage internal circuitry.

4. When equipped with a primary filter pad, ensure proper installation before use. The primary filter pad is a single-use consumable—never wash or reuse it. Replace the original pad regularly. Do not operate the unit without the primary filter pad or with low-quality replacements. Poor-quality or washed pads have inadequate filtration, leading to premature clogging and failure of downstream filters.

5. Never operate the unit without the filter installed. Oil fumes or dust particles drawn directly into the unit will damage the fan and control system. Damage from such use is not covered under warranty and requires paid repairs.

6. Do not continue using the unit if the filter element and pad are severely clogged. This will significantly shorten the unit's lifespan or cause damage. Clean, maintain, and replace filters regularly to ensure optimal performance.

7. If filter clogging reduces suction or the odor filter fails, never reduce filter layers, omit the primary pad, or reuse clogged filters. Replace with original filter cartridges and primary pads.

8. Unauthorized disassembly for repairs is strictly prohibited. The warranty sticker on the unit is the sole proof for availing after-sales service—do not tear or damage it.

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The manufacturer is not liable for damage caused by non-compliance with the above precautions, and such damage is not covered under warranty.

Product Warranty Card

Product Information	Product Name		Product Name		
	Product Name		Date of manufacture		
Customer Information	Unit Name			Contact Us	
	Address			Contact Number	
Sales Information	Sellers			Contact Us	
	Address			Contact Number	
	Sales Date			Invoice number	
	Warranty Period				
Maintenance records	Fault condition	Repair results	Guest Signature	Repairer's signature	Date

Frequently Asked Questions

Q: Is the Fumeclear fume extractor suitable for cosmetic nail services?

A: Absolutely! All our models work for laser engraving, desktop soldering, and nail services. Select the appropriate model based on your specific needs.

Q: Can Fumeclear's fume extractor effectively eliminate acrylic odors?

A: Yes! Our fume extractors efficiently remove odors from various materials such as iron shavings, wood, acrylic, and plastic.

Q: Where can I purchase replacement filters?

A: Replacement filters for all models are available on Amazon and our official website. Enjoy door-to-door delivery with reliable after-sales support!

Q: How often should the filters be replaced?

A: Typically, the prefilter lasts 2-4 weeks, the medium filter lasts 3-6 months, and the activated carbon filter lasts over 6 months.

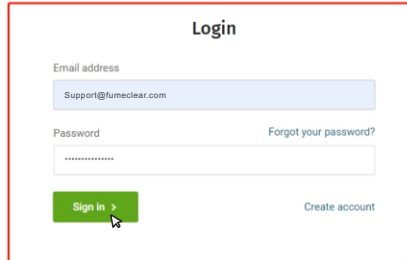
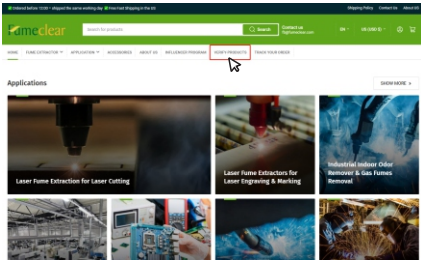
Anti-counterfeiting code

Fumeclear is committed to providing high quality products and technical support to every customer. After you receive your product, please take a few seconds to verify that it is genuine. If you receive a counterfeit product, please contact us immediately.

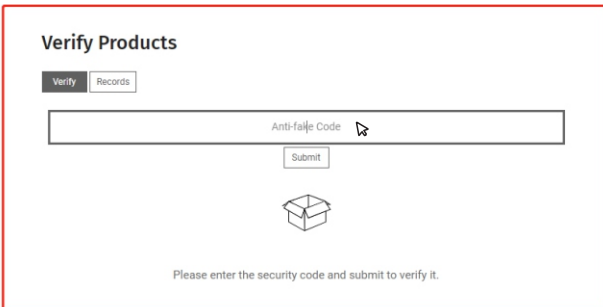
Verification method:

Machine anti-counterfeiting verification code is: FC2001A6431143

1. Click on the page and enter your email to login



2. Enter the anti-counterfeiting code and click submit



3. Verification success

