

Monport YW220

Monport YW220 Fume Extractor User Manual

Model: YW220

1. PRODUCT OVERVIEW

The Monport YW220 Fume Extractor is designed to effectively remove harmful fumes, dust, and odors from various working environments. It features a robust 3-layer filtration system, strong suction power, and a user-friendly remote control for efficient air purification. This manual provides detailed instructions for setup, operation, maintenance, and troubleshooting to ensure optimal performance and longevity of your device.



Figure 1.1: Monport YW220 Fume Extractor with its main components including the main unit, extraction tube, and filters.

2. SAFETY INFORMATION

Please read all safety warnings and instructions carefully before operating the fume extractor. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Ensure the power supply matches the specifications listed on the product label.
- Do not operate the unit with a damaged power cord or plug.
- Keep the air inlet and outlet clear of obstructions to ensure proper airflow.
- Do not expose the unit to water or excessive moisture.
- Always unplug the unit before performing any maintenance or filter replacement.
- Use only genuine Monport replacement filters to maintain performance and warranty.

3. PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- Fume Extractor Unit (1)
- Extraction Tube (1)
- Square Silicone Cover (1)
- Power Cord (1)
- English Manual (1)
- Remote Control (1)
- Adapter (1)
- Primary Filtration Cotton (5 sheets)
- H13 Filter Element (1)
- High Iodine Activated Carbon Filter (1)



Figure 3.1: Detailed view of all components included in the product packaging.

4. SETUP INSTRUCTIONS

Follow these steps to set up your Monport YW220 Fume Extractor:

1. **Unpacking:** Carefully remove all components from the packaging. Retain packaging for future storage or transport.
2. **Filter Installation:**
 - Unlock the metal lock on the side of the unit to open the filter compartment.
 - Insert the High Iodine Activated Carbon Filter at the bottom.
 - Place the H13 Filter Element on top of the activated carbon filter.
 - Finally, place a sheet of Primary Filtration Cotton on the very top.
 - Close the filter compartment and secure the metal lock.



Figure 4.1: Proper layering of the 3-layer filtration system: Primary Filtration Cotton, H13 Filter Element, and High Iodine Activated Carbon Filter.

3. **Attach Extraction Tube:** Connect the extraction tube to the air inlet on top of the unit. Ensure it is securely fastened. The 82mm air inlet is compatible with the provided 82mm bamboo tube and 100mm smoke pipes using the adapter.

4. **Attach Square Silicone Cover:** If needed for specific applications, attach the square silicone cover to the end of the extraction tube.
5. **Power Connection:** Plug the power cord into the unit and then into a suitable power outlet.

PRODUCT DETAILS

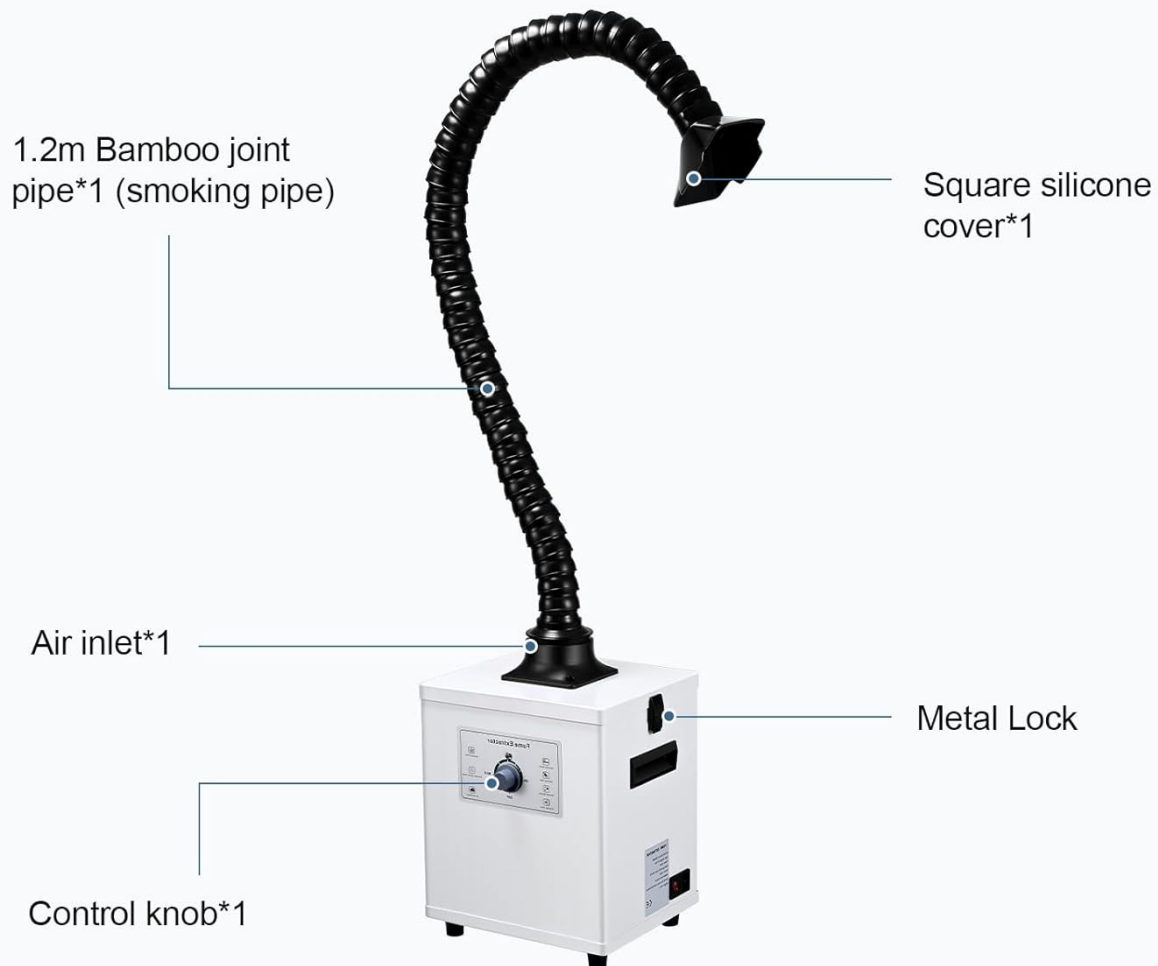


Figure 4.2: Key components of the fume extractor, including the 1.2m bamboo joint pipe (smoking pipe), square silicone cover, air inlet, and metal lock.

5. OPERATING INSTRUCTIONS

The Monport YW220 Fume Extractor can be operated via the control knob on the unit or the included remote control.

5.1. Using the Control Knob

- **Power On/Off:** Turn the knob clockwise to the 'ON' position to power on the unit. Turn it counter-clockwise to 'OFF' to power off.
- **Adjusting Wind Speed:** Continue turning the knob clockwise past 'ON' to increase the wind speed. Turn it counter-clockwise to decrease the speed.

HUMANIZED STRUCTURE



Equipped with handles for easy access



Metal lock for easy replacement of filter element



Simple knob design with smooth adjustment of wind speed



Figure 5.1: The control panel features a simple knob design for smooth adjustment of wind speed and handles for easy access.

5.2. Using the Remote Control

The remote control offers enhanced functionality:

- **Power Switch:** Press the power button to turn the unit on or off.
- **Multi-level Wind Speed Adjustment:** Use the dedicated buttons to precisely adjust the fan speed.
- **Time Setting:** Set a specific operating time for the extractor.
- **Safety Lock:** Activate the safety lock feature to prevent accidental changes to settings.

5.3. Filter Clogging Alarm

The unit is equipped with an automatic detection system for filter clogging. When a significant pressure difference is detected across the filter layers, the machine will emit an audible and visual alarm signal, indicating that the filter element requires inspection or replacement.

Prevent smoke leakage, enhance air purification effect, and help reduce noise



Figure 5.2: Foam cotton on the inside of the cover prevents smoke leakage, enhances air purification, and reduces noise, aided by a built-in sealing rubber strip.

6. MAINTENANCE

Regular maintenance ensures the longevity and efficiency of your fume extractor.

6.1. Filter Replacement

The 3-layer filtration system requires periodic replacement. The frequency depends on usage and the type of fumes being extracted. Replace filters when the filter clogging alarm activates or when you notice a decrease in suction efficiency.

1. Unplug the unit from the power outlet.
2. Unlock the metal lock and open the filter compartment.
3. Carefully remove the used Primary Filtration Cotton, H13 Filter Element, and High Iodine Activated Carbon Filter. Dispose of them according to local regulations.
4. Install new filters in the correct order: Activated Carbon Filter at the bottom, followed by the H13 Filter

Element, and then a new sheet of Primary Filtration Cotton on top.

5. Close the filter compartment and secure the metal lock.



Figure 6.1: The high iodine value columnar carbon filter provides superior adsorption capacity and a longer service life compared to ordinary coal-based carbon.

6.2. Cleaning the Unit

- Wipe the exterior of the unit with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- Ensure the air inlet and outlet are free from dust and debris.

7. TROUBLESHOOTING

Refer to the table below for common issues and their solutions:

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Unit does not power on	No power supply; Power cord loose; Unit switch off	Check power outlet; Ensure power cord is securely plugged in; Turn unit switch to 'ON'
Low suction power	Filters clogged; Extraction tube blocked; Fan speed too low	Replace filters; Clear any blockages in the tube; Increase fan speed
Filter clogging alarm activates	Filters are saturated and need replacement	Replace all three filter layers
Unusual noise during operation	Loose components; Obstruction in fan; Unit not on a stable surface	Check for loose parts; Inspect fan for obstructions (unplug first); Place unit on a flat, stable surface

8. SPECIFICATIONS

Detailed technical specifications for the Monport YW220 Fume Extractor:

- **Power:** 220W
- **Max. Airflow Speed:** 310 m³/h
- **Filter Layers:** 3 (Primary Filtration Cotton, H13 Filter Element, High Iodine Activated Carbon Filter)
- **Air Inlet Diameter:** 82mm
- **Extraction Tube:** 1.4m length, ϕ 75mm diameter
- **Filter Effect:** 0.3 μ m, 99.97% purification rate
- **Max. Noise Level:** <55dB
- **Highest Negative Pressure:** 2200Pa
- **Control Method:** Remote with display, and manual knob
- **Dimensions (Unit):** Approximately 11.8in (30cm) x 9.5in (24.2cm) x 13.5in (34.3cm)

8.1. Compatible Applications

This fume extractor is suitable for a wide range of applications, including:

- Soldering Stations
- Engraving Machines (recommended for Monport CO2 engraving machines and optical fiber marking machines below 50W)
- CNC Machine Tools
- Welding Tools
- Compatible with most diode engraving machines and optical fiber marking machines on the market.

WORK SCENARIO

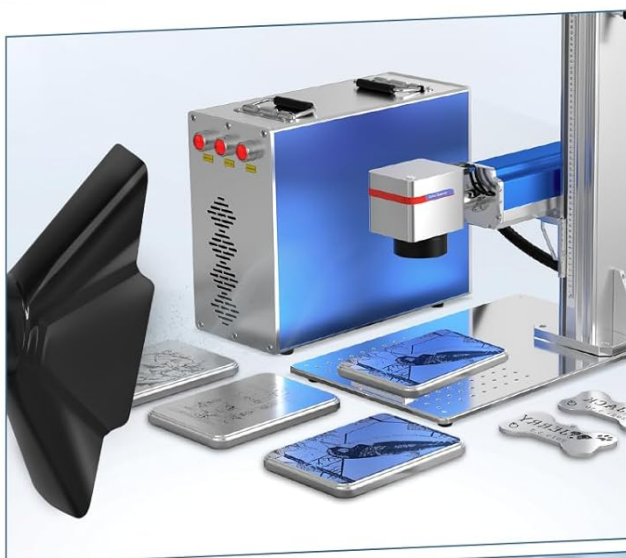
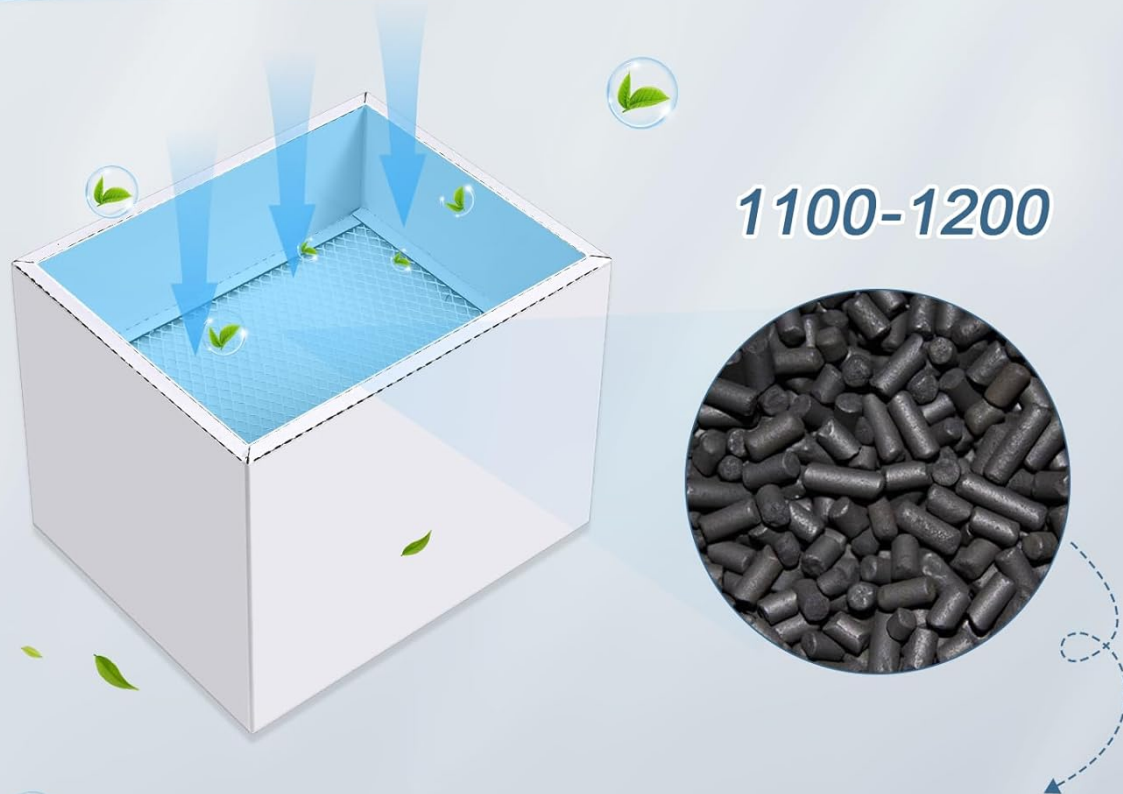


Figure 8.1: The fume extractor is suitable for diverse work environments, effectively managing fumes from laser engraving, soldering, and other industrial processes.

HIGH IODINE VALUE COLUMNAR CARBON



Our equipment uses columnar carbon with a high iodine value of **1100-1200**. The columnar carbon is affected by the iodine value, and the higher the iodine value, the greater the porosity and specific surface area, the stronger the adsorption capacity, and the longer the service life is 1.4 times that of ordinary coal based carbon, which has higher purification and deodorization capabilities than ordinary activated carbon

Figure 8.2: Demonstrates the efficient performance of the fume extractor, showing significant improvement in air quality (reduction in PM2.5, PM10, HCHO, TVOC) after use.

9. WARRANTY AND SUPPORT

For warranty information, technical support, or to purchase replacement parts and filters, please contact Monport customer service. Refer to the contact information provided in your purchase documentation or visit the official Monport website.

Protection plans are available for extended coverage. Please refer to your retailer for details on available protection plans.