

## USER MANUAL HI6102A – HEPA EXTRACTION UNIT



Dear Customer,

You have just purchased a FTM Technologies product. We thank you for your confidence. Please read this manual carefully before using your equipment.

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2. Technical description of the products
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5. Start-up and operation
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For any information, contact us:

### **FTM Technologies**

78, rue Raymond Poincaré  
92000 Nanterre, FRANCE

[info@ftm-technologies.com](mailto:info@ftm-technologies.com)

Tél : + 33 1 40 86 00 09

Fax : + 33 1 40 86 16 45

## 1. PRODUCTS COVERED BY THE LEAFLET

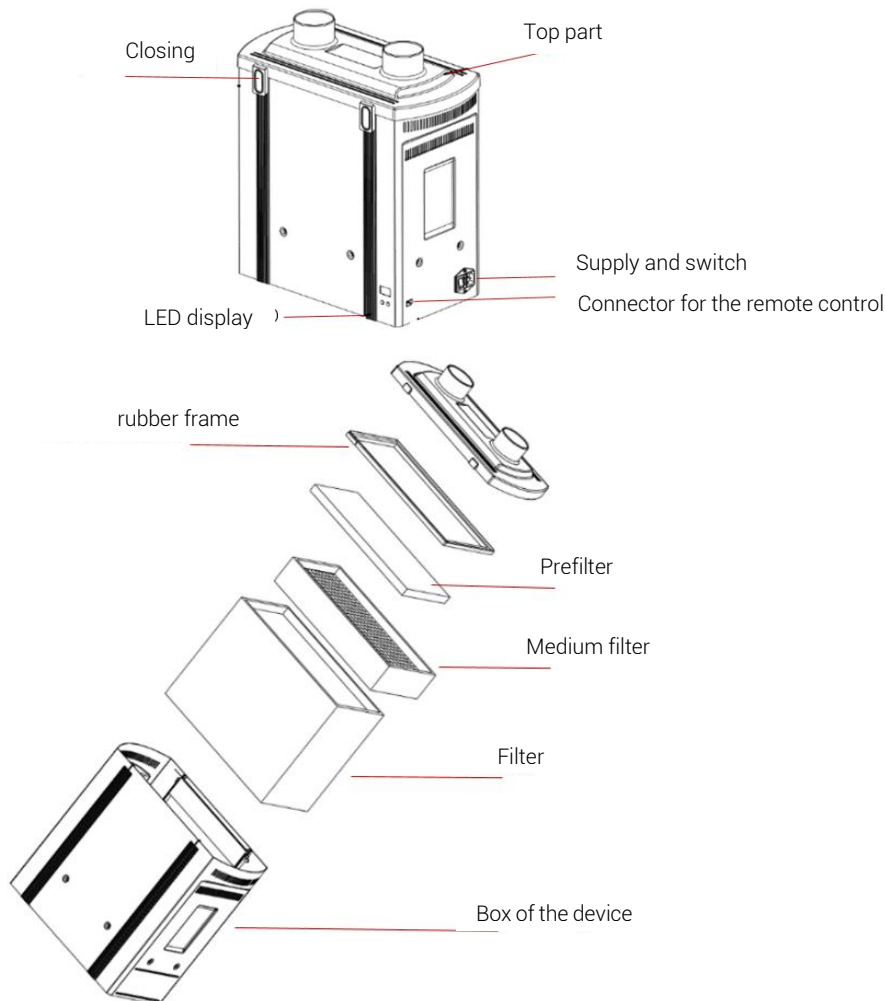
This manual has been prepared to serve as a user manual for products with a HI 6102A HEPA extraction unit and in particular:

- HI-HEPA
- HI-HEPA Mobile Bec
- HI-HEPA Mobile Coupole
- Roulante HEPA

## 2. TECHNICAL DESCRIPTION OF THE PRODUCTS

The device is a filtration system for fumes, particles and gases. It has one / two extraction arms and is used during different types of processes such as soldering, marking or laser cutting, printing etc., to filter harmful substances such as hydrocarbons, cyanide etc.

For optimal efficiency, it is designed with a triple filter system: pre-filter, medium filter and main filter including a HEPA filter (very high efficiency) and a gas filter. Pre-filter with large ASHRAE surface and medium filter can filter larger particles to extend the life of the main filter. The HEPA filter purifies the gases and particles filtered by the pre-filter and then directs them into the gas filter, which, thanks to activated charcoal and potassium permanganate, filters the harmful substances and rejects the purified.



### *Advantages*

The device is simple to use and does not encumber the workstation.

Triple filter system: filters hazardous substances to ensure the health and comfort of the operator. The pre-filter and main filter can be changed separately to extend filter life and lower costs.

Built-in air recycling system to avoid exhausting cool outside air  
Low noise and long-life brushless fan with high airflow.  
Two inputs to connect 2 suction arms.

Features of the 6102 power unit  
Power supply: 230 V / 110 V AC  
Power: 250 W  
Number of holes: 2  
Available pressure: 3000 Pa  
Air flow: 240 m<sup>3</sup> / h  
System flow (filter included): 2X100 m<sup>3</sup> / h  
Filtration efficiency (0.3µm): 99.97%  
Noise: <65 dB  
Dimensions: 470 \* 230 \* 500m

### 3. SAFETY RECOMMENDATIONS

This device is not intended for use by persons (including children) whose physical, sensory or mental capabilities are impaired; or persons without experience or knowledge, unless they have been able, through a person responsible for their safety, to have prior surveillance or instructions concerning the use of the device. Children should be supervised to ensure that they do not play with the appliance.

WARNING: BEFORE ANY INTERVENTION (FOR EXAMPLE FILTER REPLACEMENT) BE SURE TO DISCONNECT THE HOOD.

- Avoid aspiration of liquids as well as acid products. In case of error, immediately stop operation, clean and dry the splashed parts thoroughly, before restarting the installation.
- Avoid the aspiration of the flames. These can damage the Filter as well as the booth.
- Avoid contact with very hot or incandescent parts.
- Avoid working in a damp room.

### 4. INSTALLATION / MOUNTING OF EQUIPMENT

The unit is supplied with its filters already installed.

**Before use**, make sure to open the filter compartment, remove the prefilter, the medium filter and the main filter. Remove the protective foam on the underside of the main filter dedicated to protect the filter during transport.

### 5. START-UP AND OPERATION

Connect the power plug to the unit. Adjust the suction arm (s) to the workstation where the unit will filter air. After turning on the control panel by pressing the power button on the side of the unit, the display shows the level (1-10) of the selected airflow.

The airflow can be adjusted using the control remote control, and when the remote control is turned off, the display will show "OFF".

**CAUTION:** Remove the foam under the main filter before using the unit for the first time.  
The upper part must be tightened correctly using the four locking levers.

## 6. CARE AND MAINTENANCE

### a) LED indicator message

Symptom: The LED displays circularly clockwise "□" and the alarm of the device starts, the fan is still running but the air flow is very low.

Reason: this may be due to the fan output, blocked for about half an hour or because the main filter has no effect.

To do: Turn off the power to the unit, remove the top and check if the fan outlet has been blocked and clean the other parts if necessary. Turn the unit back on and check if the arrival is still blocked. In this case, the filter must be changed.

### b) Change of filters

Particulate filters

Particulate filters must be replaced as soon as the LED indicates that they are dirty.

It is then necessary to proceed to the successive replacement of the prefilter, then of the medium filter and finally of the main filter.

Activated carbon filter

The main filter has a HEPA compartment and an activated carbon compartment. The saturation of activated carbon depends on the volume of substances (VOC, gas etc.) filtered. It is recommended to change this filter every 6 to 12 months, or more often if intensive use. It is up to the user to determine the replacement frequency based on their experience and empirical observations.

## 7. SPARE PARTS, CONSUMABLES

Designation	
Suction unit 6102	1
User manual	1
Power cord	1
PVC duct 3 m (Ref: T80)	2
Prefilter (batch of 5)	1
Medium filter	1
Main filter	1

## 8. WARRANTY

All units are warranted for 1 year parts and labor provided that you have used the product in accordance with its purpose and the instructions in the user manual. For the implementation of this guarantee, you will have to attach the photocopy of the original invoice specifying the date of purchase.

Warranty exclusions:

- modification or alteration of the above document,
- type and / or serial number of the product rendered unidentifiable,
- interventions on the product made by any unauthorized person,
- damage caused by a cause external to the device and in particular by lightning, fire, water damage or negligence,
- modification or adaptation of the product.

The guarantee does not cover the deterioration of accessories and spare parts of usual consumption.