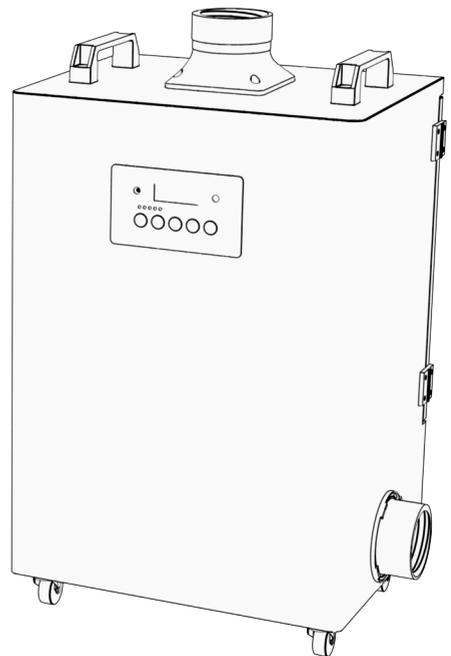
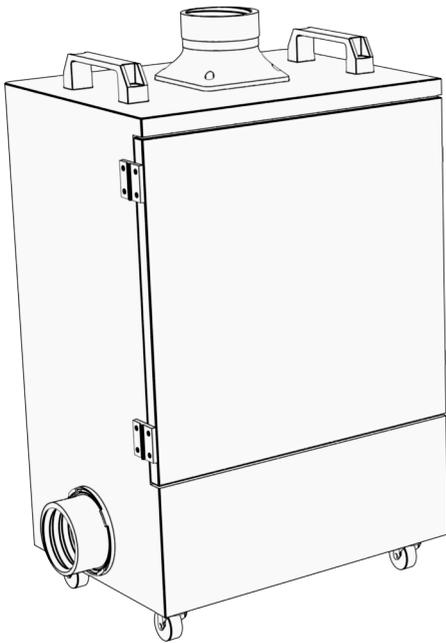


INSTRUCTIONS MANUAL

ALVEO3D

FUME EXTRACTOR 350

Air filtering system - for 3D Printer Resin or FDM - Laser cutting / engraving
- CNC



Find all assembly resources

www.alveo3d.com/en/assembly-fe150/

and download contents

www.alveo3d.com/en/download-fe150/

TABLE OF CONTENTS

TABLE OF CONTENTS	p. 1
SAFETY QUICK START & PRODUCT OVERVIEW	p. 2
PROVIDED ELEMENTS	p. 3
STEP 1 . CHECK BEFORE USING	p. 4
STEP 2 . SYMBOLS	p. 4
STEP 3 . SAFETY PRECAUTIONS	p. 5
STEP 4 . SPECIFICATIONS	p. 6-7
STEP 5 . INSTALLATION & USE INSTRUCTIONS	p. 8-11
STEP 6 . MACHINE OPERATING INSTRUCTIONS	p. 12-14
STEP 7 . TROUBLESHOOTING	p. 15-16
STEP 8 . FILTER USE & MAINTENANCE	p. 17
STEP 9 . IMPORTANT USE CONSIDERATIONS	p. 18
NOTES	p. 19

SAFETY QUICK START & PRODUCT OVERVIEW

Read all instructions before using

- This product conforms to applicable CE requirements.

This product is also suitable for applications where fumes are produced such as smoke, peculiar smells, dust, poisonous and harmful gas, soldering, laser marking & carving, printing, and medical care, etc.

With the triple-filter design and powerful suction, the absorbing efficiency and filtration ratio can reach 99.97%. The purified air can be discharged directly indoors.

- This device is not designed to filter carbon monoxide (CO) or radon (Rn) and must not be used as a safety device in environments involving combustion or hazardous chemical exposure.

When operating the device near household gas appliances (e.g., gas stoves, water heaters), ensure adequate ventilation to prevent carbon monoxide (CO) accumulation.

Do not introduce liquids, powders, flammable materials, or foreign objects into the air intake.

If the filter becomes severely clogged, disconnect the power supply immediately and discontinue use to prevent equipment damage or reduced service life.

When replacing the filter, use only official replacement filters to ensure proper fit and maintain optimal filtration performance.

Disposal (France/Europe)

Bag the used filter (to limit the spread of dust/odors).

Dispose of it with residual household waste.

(Paper Prefilter/HEPA/activated carbon filters are not recyclable through standard waste streams. The metal pre-filter can be cleaned with water. If the filter is soaked with hazardous substances or was used in a medical context, take it to a waste collection center and inform the staff.)

PROVIDED ELEMENTS

Provided elements with FUME EXTRACTOR - 350

- Fume Extractor 350
 - 5 prefilters 1 of 5 is installed
 - 1 HEPA filter Installed (H13 or H14 according option)
 - 2 activated carbon filters Installed
 - 2 Black extensible hoses 3 meters
 - Extensible hose connectors
 - Power cable EU plug 1.5M 10A/250V
 - Remote controller
 - Duct 75mm dia. *1.4m (in option)
 - Duct hood (in option)
-
- Please check carefully to ensure that the following listed parts are included. If there are any missing or damaged items, please contact the customer service department :

www.contact@alveo3d.com | +33 978 809 394

STEP 1 . CHECK BEFORE USING

Before switching on the power for the first time, please ensure that the following conditions exist, so as to guarantee safe operation.

1. The machine should be intact;
2. The power switch should be in the OFF position;
3. The filter element(s) should be evenly placed;
4. The cover and box body should be installed securely;
5. The speed-regulating button is adjusted to "OFF" Status;

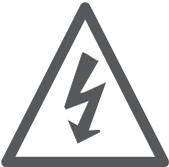
STEP 2 . SYMBOLS



ATTENTION - CAUTION



FIRE HAZARD



ELECTRICAL HAZARD



INJURY HAZARD

STEP 3 . SAFETY PRECAUTIONS



Before use, please read and follow the safety precautions below to prevent fire and personal injury.



This product is prohibited to be used in a high temperature environment (above 80°C) or in a flammable, explosive or greasy environment.



Supply wire must be grounded during operation.
Internal electric voltage of the product is as high as 310V.



Supply wire must be grounded during operation.
Internal electric voltage of the product is as high as 310V.

STEP 4 . SPECIFICATIONS

Model : Fume Extractor 150

Air Inlet Interface	Φ75mm
Input Voltage	AC220V
Maximum Power	350W
Filtering Efficiency	0.3μm 99.97%
Noise	<68dB
Length of Ducts	2M
Systemic Flow	460m³/h
Dimensions of Main Unit	400*300*560mm
Weight	28 kgs

HEPA Filter

Dimensions of Main Unit	365*270*100mm
Weight	2.1 kgs
Composition	HEPA13 or HEPA14

Activated Carbon Filter

Dimensions of Main Unit	365*270*100mm
Weight	3.6 kgs
Composition	Activated carbon

STEP 4 . SPECIFICATIONS

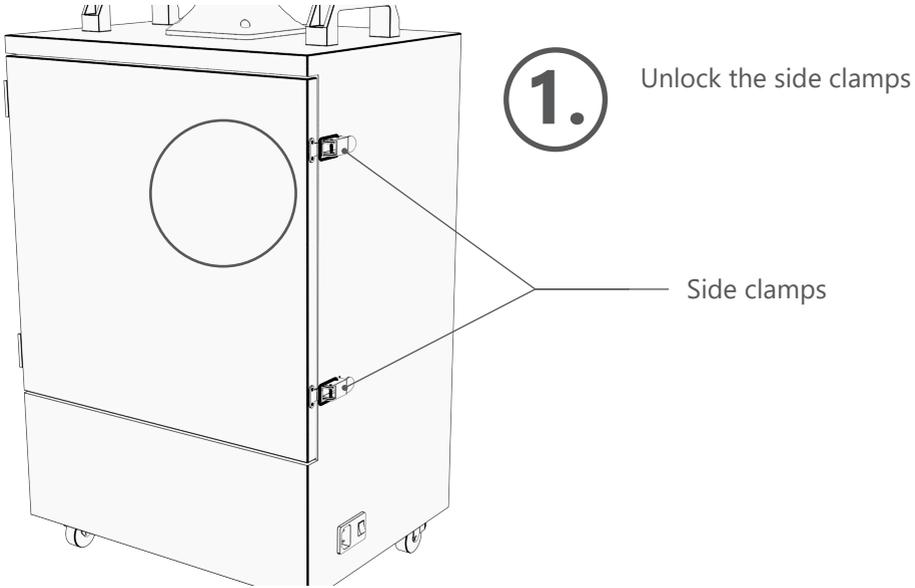
Unit component



STEP 5 . INSTALLATION & USE INSTRUCTIONS

5.1 Filtering Core Installation

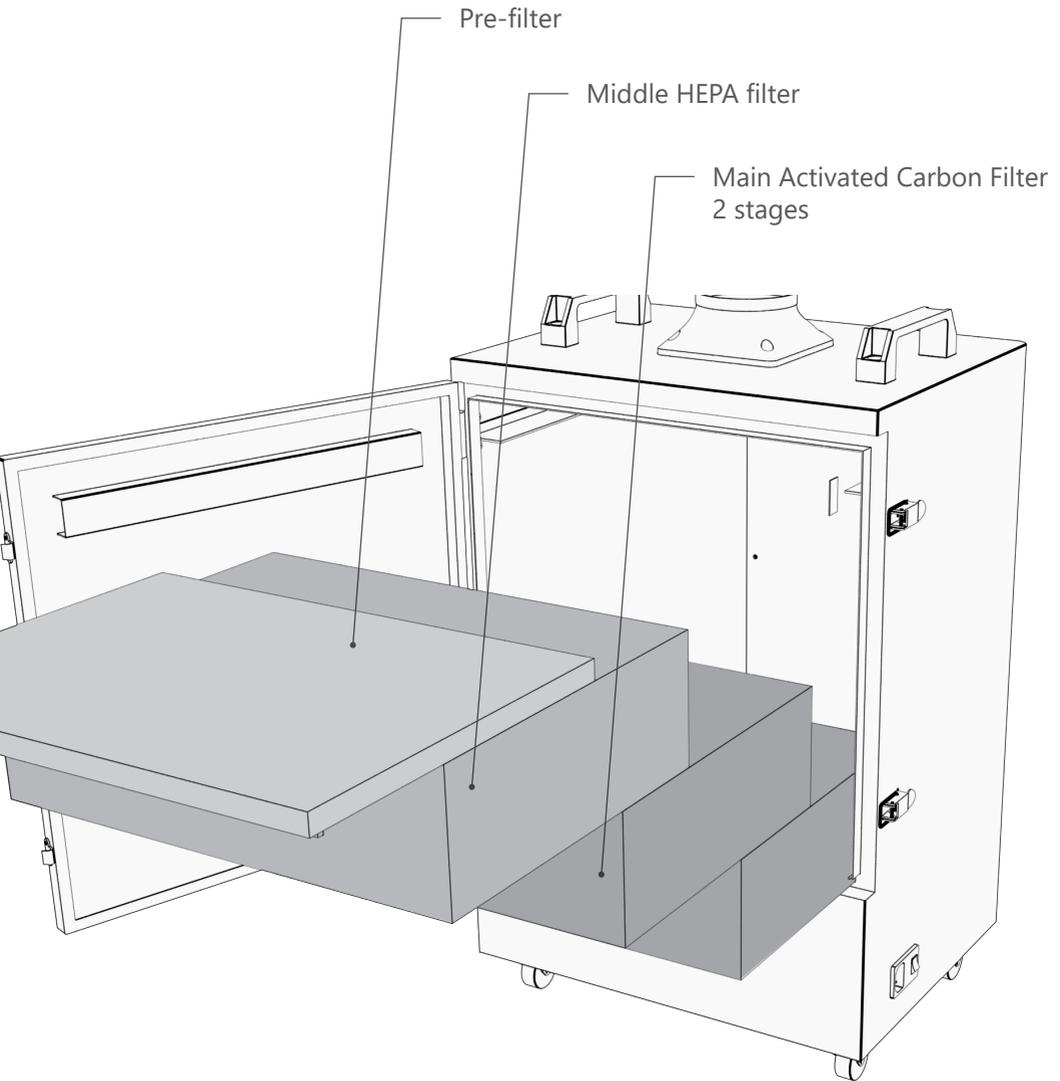
Open the top cover and correctly install the high-efficient filtering core, medium-efficient filtering core, primary-efficient cotton filtering with top cover and press for buckle hasps at the two sides.



STEP 5 . INSTALLATION & USE INSTRUCTIONS

5.2 Filtering Composition

Follow Filter Use & Maintenance step 8 p.17 for filter replacement instructions.



STEP 5 . INSTALLATION & USE INSTRUCTIONS

5.3 Suction Duct Hose Installation : air inlet

Option 1 : Remove the hose from the package, and attach it to the duct flange on the cover of the machine.

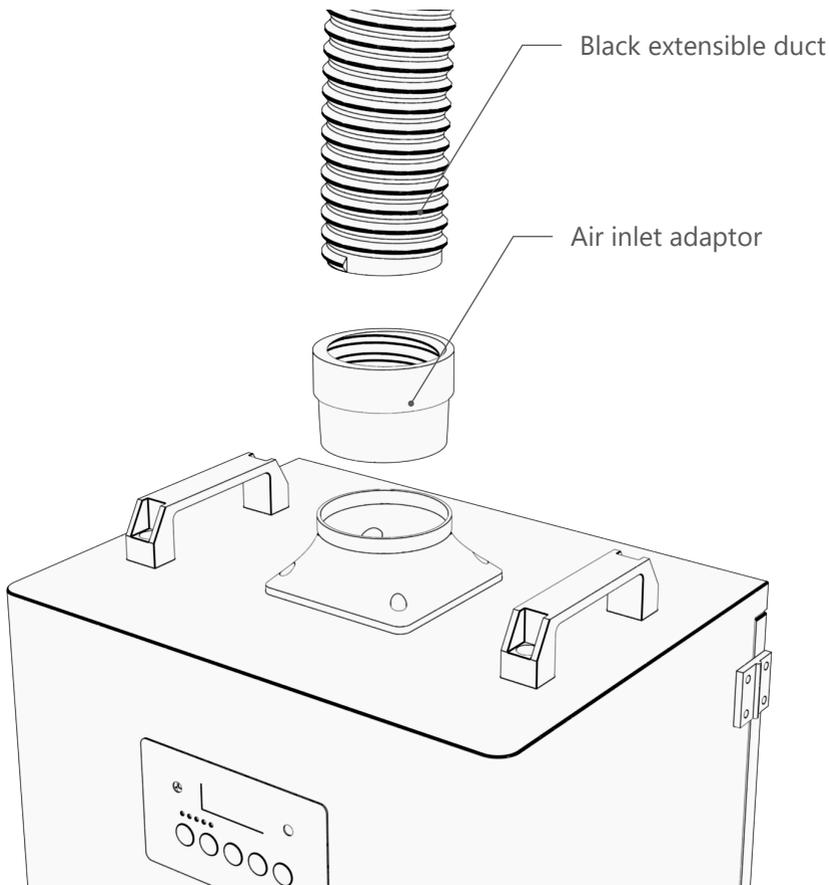
option 2 : Turn the tube, aim exhaust fume collecting hood with the smoke outlet. Adjust the suction distance based on the application.

1.

Option 1
Black extensible duct
Air inlet adaptor

2.

Option 2
Rigid duct and duct hood



STEP 5 . INSTALLATION & USE INSTRUCTIONS

5.4 Exhaust Duct Hose Installation : air outlet

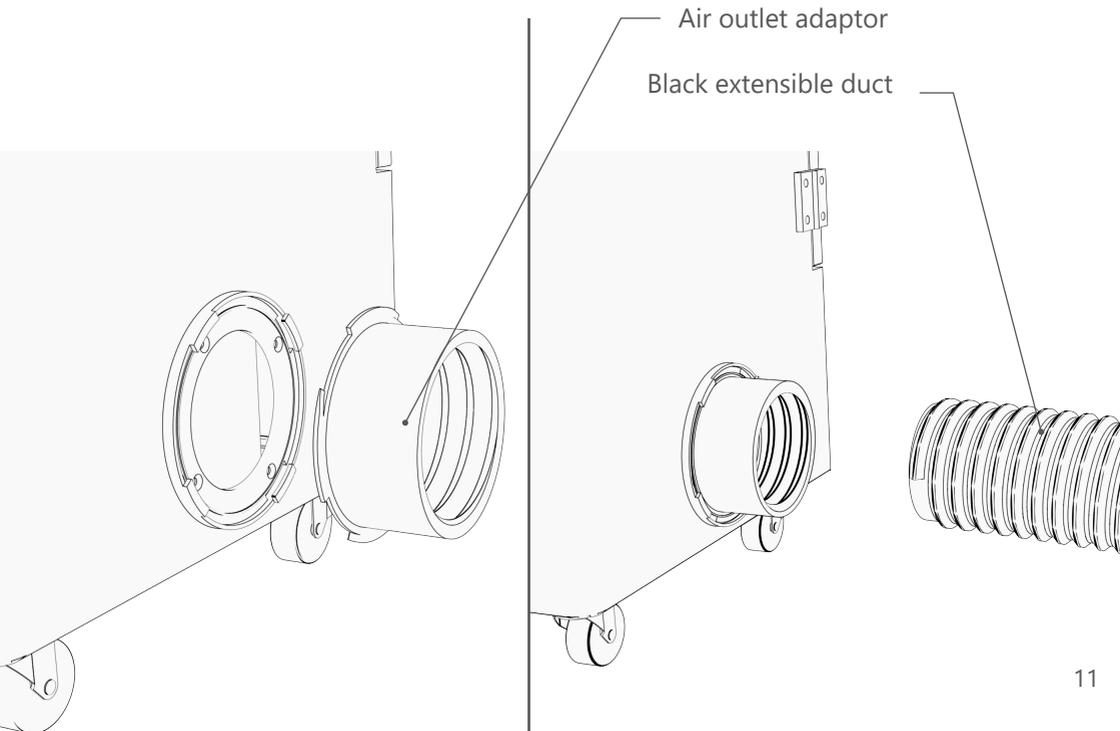
1. To install the air outlet adaptor , you must place it and turn it to ensure perfect fit in the connector on the housing.
2. Then turn the black extensible duct to place it until it stuck.



When adjusting the direction of suction duct hose, try to maintain a broad loop or bend radius of the hose, otherwise it will affect the suction force. The suction inlet shall directly face the working point. Keep the distance within 150mm.



Try to avoid areas with excessive air flow, otherwise suction force will be affected or diminish completely.



STEP 6 . MACHINE OPERATING INSTRUCTIONS

6.1 POWER supply & TURN ON/OFF

Plug in and check if the power plug is properly fit into the socket.
Turn on the power switch.



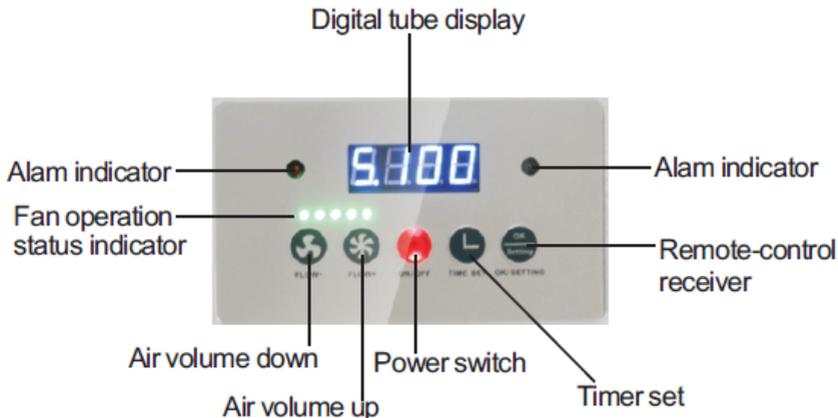
6.2 Operator Interface Button Functions

Adjust the speed-adjusting knob to start the machine according to different needs on the air flow.



Before starting the machine, the speed-adjusting knob should be adjusted to the OFF position.

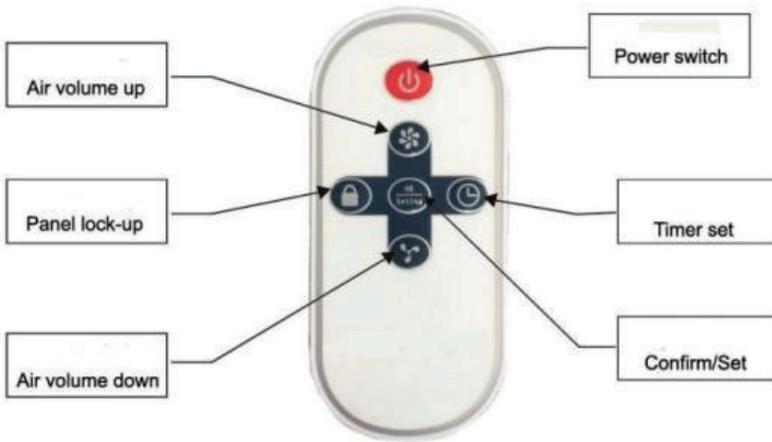
The air flow should be set according to the actual demand. It should not be set too high or too low. Excessive air flow increases the power consumption as well as the noise level.



STEP 6 . MACHINE OPERATING INSTRUCTIONS

6.3 Remote Interface Button Functions

Remote as the same functions as the interface. Each button will be explained next page.



In the event that the machine takes a long time to shutdown, please turn OFF the machine main power switch and unplug the power plug.

STEP 6 . MACHINE OPERATING INSTRUCTIONS

6.4 Operator Interface Button Functions

Power Switch button

Pressing the power switch on the remote control or the machine control panel should cause the machine to start running and the orange light on the machine control panel should turn ON. Pressing the power button on the remote or the machine control panel again should cause the machine to stop running and the orange indicator light on the machine control panel should turn OFF.

Air Volume Up Button

Press this button when the machine is running, the number on digital tube display increases in multiples of 10, the maximum number is 100 which means the machine is running in full speed.

Air Volume Down Button

Press this button when the machine is running, the number on digital display decreases in multiples of 10.

Confirm/Set Button

If the machine is in alarm status and buzzer sounds, press the Confirm/Set button to turn OFF the alarm. If the machine is not in alarm status, press the Confirm/Set button to check the total working hours of the machine.

Panel Lock-up

Press this button on the remote when the machine is working, all function keys on the machine control panel will be locked. Press again or reboot the machine to unlock

STEP 7 . TROUBLESHOOTING



Make sure the power is switched off and unplugged before inspecting or repairing the machine!

Problem 1: The machine still works, but the air flow is very weak and suction power is greatly reduced.

Cause: Air Inlet is blocked or foreign body exists inside the duct. The filter becomes saturated and hence gets blocked and gives an alarm.

Solution: Turn off the power and open the top cover. Check if there is any foreign body blocked in the air inlet. Then check if the air vent is blocked or not. If the suction power of the empty-loaded machine is normal, it means the filter needs to be replaced.

Problem 2: The machine shuts down automatically after it is just started. Even if you restart the machine, the same problem happens again.

Cause: The air flow through the machine is obstructed. As a result, the starting current of the fan becomes very high, hence the machine shuts down automatically for self protection.

Solution: Turn off the power and open the top cover. Check if there is any foreign body blocked in the air inlet. Then turn the speed-adjusting knob to the lowest level and restart the machine. The machine should function normally.

STEP 7 . TROUBLESHOOTING



If the problem remains after these inspections and maintenance are performed, please contact customer service.

Problem 3: Power switch is ON, but machine does not run and the power indicator does not light up.

Cause: The fuse might be bad.

Solution: The fuse needs to be replaced by performing the following steps:

Operation steps to replace the fuse:



1. Turn off the power and pry up the fuse groove with a screwdriver;



Burnt-out fuse

2.

spare fuse



3. Remove the damaged fuse with a screwdriver



4. Prepare the spare fuse;



5. Install it



6. Finished

STEP 8 . FILTER USE & MAINTENANCE

This product uses disposable filtering elements. When these elements have been used to a certain extent, they need to be cleaned or replaced in order to guarantee the good purifying effect of the machine.



Pre-filter

Use method: Place the Pre-filter on top of Middle Filter. The front side (rough side) is facing upwards (air inlet direction). When the accumulated dust on the Pre-filter is over 70% and cannot be cleaned any more, please replace the Pre-filter with a new one.



(Middle) Hepa(H13/14) Filter

Use method: With the handle side facing up, put the Middle Filter inside the metal frame. The medium filter shall be immediately cleaned off when the accumulated dust on the Middle Filter evidently affects the suction power. When it cannot be cleaned any more, please replace the Middle Filter with a new one.



(Main) Activated Carbon Filter

Use method: With the handle side facing up, place the Main Filter at the bottom inside the machine. When it cannot effectively eliminate the peculiar smell in the smoke, please replace it with a new one.

STEP 9 . IMPORTANT USE CONSIDERATIONS



The power source for this machine must fall within the specified nominal voltage scope (subject to the power identification on the machine body).

It is strictly forbidden to use this machine with excessive high or low voltage, if the ambient voltage is unstable, please turn off the machine, unplug the power plug and use it again once the power has stabilized.

While using the machine, the ambient temperature range of the gas and the dust which is sucked into the air inlet should be within the range of atmospheric temperature to a maximum of 60 °C.

Never use the machine when the temperature is higher or lower than this temperature range.

When using the machine, the humidity of the gas and the dust sucked into the air inlet should be between the range of 40%-80%. If the humidity is excessively high, the filter element will become ineffective rapidly and the internal circuit will be damaged. Never use the machine when the humidity is higher than 80%.

If the machine has a primary cotton filter, then this filter must be properly installed before machine use. The primary cotton filter is considered a disposable consumable item and should be replaced once it becomes clogged. (DO NOT WASH AND REUSE). Please replace the primary cotton filter with an OEM part regularly. Never use the machine without the primary cotton filter or with a poorly performing primary cotton filter.

It is strictly forbidden to use this machine without a filter element because the fumes or the dust particles sucked in the machine directly will cause damage to the air blower and the control system. Any fault caused by machine use under the previously stated conditions shall be serviced at the user's own cost.

Do not continue to use the machine when the filter element or the cotton filter is clogged. This will greatly shorten the service life of the machine and will damage the machine. Please clean and maintain the machine regularly and replace the filter element regularly to ensure the proper operation of the machine.

In the event that your machine filter element becomes clogged, the suction force is lowered or the filter element for foreign odor removal fails to remove the odor, it is not permitted to use this machine by reducing the machine's number of layers of the filter elements or without utilizing the primary filter element or cotton filter. Please replace the filter element and primary cotton filter with OEM filters.

Never open the machine for maintenance by yourself, the warranty sticker on the machine is the only voucher you have to enjoy after-sales service so please don't tear it up or damage it.

The warranty will not cover any losses or damage that may be incurred by the user if the previously stated instructions are not followed.

NOTES

Filter FE350 lifetime:

Filter working life is associated with many factors including filament / resin type, melting temperature, the concentration of nanoparticles and VOCs, ambient humidity...

We suggest replacing the filter according to the following table:

Filter replacement	HEPA14 + AC	HEPA13 + AC
	12 months	12 months

We do not recommend going above 3000 hours of use before to replace the filter.

Filter replacement tracking:

	Date
Date of purchase	
Replacement 1	
Replacement 2	
Replacement 3	
Replacement 4	
Replacement 5	
Replacement 6	
Replacement 7	
Replacement 8	
Replacement 9	
Replacement 10	

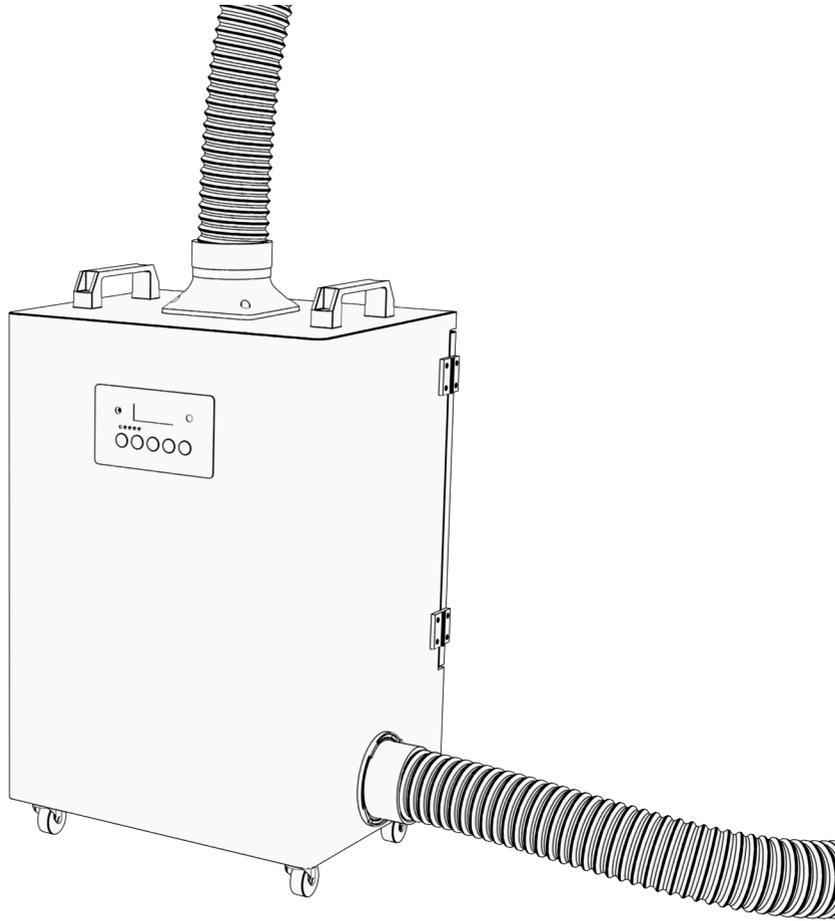
NOTES :

A series of horizontal dashed lines for writing notes.

NOTES :

A series of horizontal dashed lines for writing notes.

Breath ! You are filtering !



Meet us on www.linkedin.com/company/alveo3d

ALVEO3D by
FLEXEE SYSTEM SAS
460 Rue de la Leysse
73000 Chambéry
www.alveo3d.com
contact@alveo3d.com

Designed in France
