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# Alveo3D P3D HEPA H14 Filter for 3D Printer Instruction Manual

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#### Alveo3D P3D HEPA H14 Filter for 3D Printer

# **Specifications**

- Actual dimensions: 160 x 160 x 53 mm • Frame dimensions: 150 x 150 x 50 mm
- Sealing: EPDM Foam
- Filter grade: HEPA H14
- Activated Carbon Type: Granules 1-3 mm mesh
- Filter Type: Pleated Panel & honeycombs
- · Media Material: Cotton, PP & PET
- Pressure Drop (with max. air flow): 120 Pa
- Maximum Air Flow: 55 m<sup>3</sup>/h
- · Operating temperature Weight

### **Product Usage Instructions**

#### **Filter Installation**

- 1. Ensure the slot for the filter matches the dimensions provided in the manual (156mm x 156mm).
- 2. Handle the filter with care to avoid damaging the HEPA surface.
- 3. Place the filter in the designated slot with the air flow\direction aligned correctly (In to Out).
- 4. Make sure the sealing foam is properly positioned for a secure fit.

### **Filter Replacement**

Follow the recommended filter replacement schedule based on your usage:



- Intensive use: Replace every 4 months.
- · Occasional use: Replace every 8 months.
- Avoid using the filter beyond 900 hours of total use.

# **Maintenance Tips**

- Protect your hands when handling used filters by putting themin a plastic bag.
- Do not attempt to recycle a saturated filter.
- If the filter efficiency is compromised (e.g., damaged surface), replace it promptly.

### **FAQ**

- Q: Can I use the filter beyond the recommended replacement schedule?
  - A: It is not advisable to exceed the recommended replacement schedule to maintain optimal filtration efficiency and quality.
- · Q: How do I know when it's time to replace the filter?
  - A: Keep track of your printer usage and follow the replacement guidelines provided in the manual based on your usage frequency.
- · Q: What should I do if the filter does not fit properly?
  - A: Ensure that the slot dimensions match those specified in the manual and contact technical support for assistance if needed.

### **Product Information**

- HEPA (High-efficiency particulate air) filter category H14 99,995% for the most penetrating particle size (MPPS) 0.3µm. combined with activated carbon granules 1-3mm mesh size.
- That filter category is recommended by the French National Center of Scientific research for FDM 3D printers

#### **DIMENSIONS DRAWING**

- · Filter size including the sealing foam.
- · We recommend you to follow these dimensions if you want to design a slot for this filter.

## Recommandations

- · Handle filter with caution.
- If the HEPA surface (the white pleated surface) is damaged, the filter lost efficiency.
- Protect your hands when you take off used filter and put it in\ a plastic bag.
- A saturated filter is not recyclable.

#### LIFETIME

Filter working life are associated with many factors including filament type, melting \temperature, concentration of nanoparticles and VOCs, ambient humidity... We suggest to replace HEPA filter P4D according to the following table

Filter replacement	Intensive use	Occasional use
	4 months	8 months

We do not recommend going above 900 hours of use before to replace the filter.

# **SPECIFICATIONS**

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Actual dimensions	160 x 160 x 53 mm
Frame dimensions	150 x 150 x 50 mm
Sealing	EPDM Foam
Filter grade	HEPA H14
Activated Carbon Type	Granules 1-3 mm mesh
Filter Type	Pleated Panel & honeycombs
Media Material	Cotton, PP & PET
Pressure Drop (with max. air flow)	120 Pa
Maximum Air Flow	55 m3/h
Operating temperature	0-60 °C
Weight	290g

### **DIMENSIONS**

# **FOAM DIMENSIONS DRAWING**

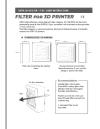
Slot with dimensions between 156mm and 159mm is recommended to ensure good sealing.

• We do not recommend making a slot under 156mm x 156 mm, if you compress more the geometry of the frame will be distorted

### **FIXED DIMENSIONS DRAWING**

Notice the frame is assembled by hand and we have a tolerance of  $\pm 1$  mm.

• www.alveo3d.com



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### References

- O Impression 3D sécurisée sans nanoparticules ni COV Alveo3D
- User Manual

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