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› Sovol SH04 Filament Dryer Box User Manual

Sovol SH04

Sovol SH04 Filament Dryer Box User Manual

Model: SH04

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1. INTRODUCTION

The Sovol SH04 Filament Dryer Box is designed to maintain optimal humidity levels for 3D printer filaments, enhancing print quality and preventing common issues caused by moisture absorption. This device can accommodate up to four spools simultaneously and features rapid heating capabilities with a simplified one-knob operation.



Figure 1: Sovol SH04 Filament Dryer Box, front view with spools.

2. SAFETY INFORMATION

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

- Ensure the device is placed on a stable, level surface.
- Do not block ventilation openings.
- Keep the device away from water or other liquids.
- Do not open the device casing; refer servicing to qualified personnel.
- Unplug the device from the power outlet when not in use or before cleaning.
- This device is intended for drying 3D printing filaments only. Do not use it for other purposes.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- Sovol SH04 Filament Dryer Box
- Power Adapter
- PTFE Tubes (4 pieces)
- User Manual (this document)

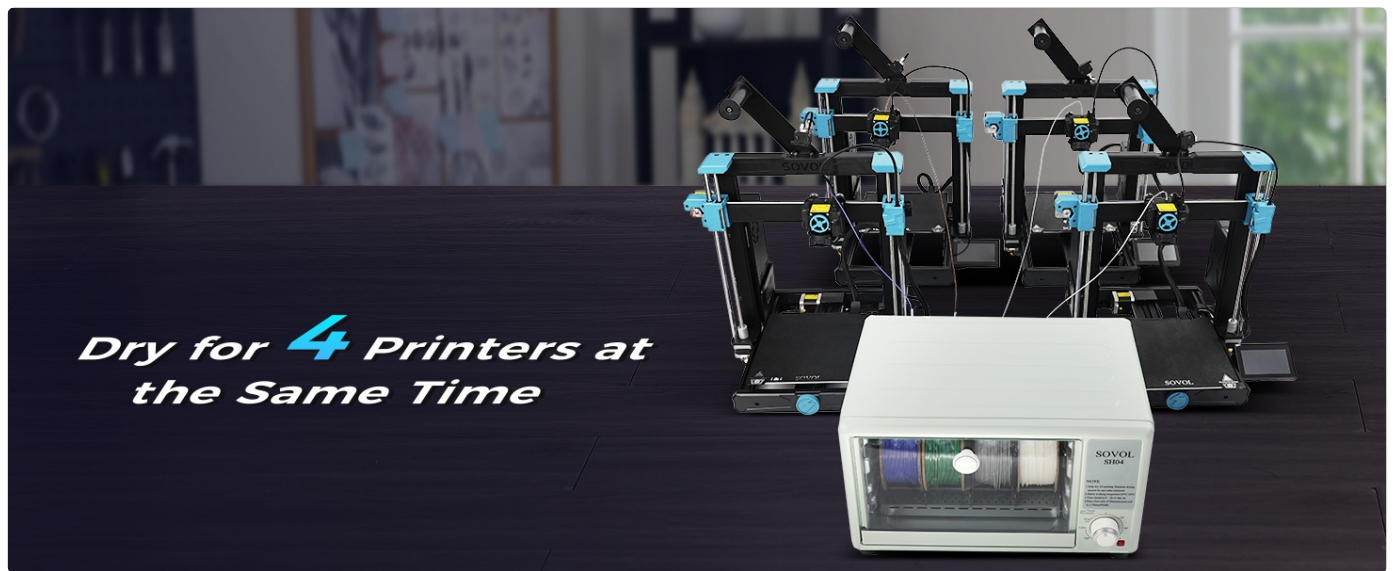


Figure 2: Included items in the Sovol SH04 package.

4. SETUP

Follow these steps to set up your Sovol SH04 Filament Dryer Box:

1. **Placement:** Place the dryer box on a stable, flat surface near your 3D printer.
2. **Power Connection:** Connect the power adapter to the dryer box and then to a suitable power outlet.
3. **Filament Loading:**
 - Open the front door of the dryer box.
 - Place up to four filament spools onto the internal rollers. Ensure spools rotate freely.
 - Insert the PTFE tubes into the designated holes on the back of the dryer box. If removing, press the rubber valve first.
 - Feed the filament from each spool through its respective PTFE tube.
 - Close the front door securely.



Step 1

Insert PTFE tube
(If you need to pull PTFE tube out please press on the rubber valve at first)



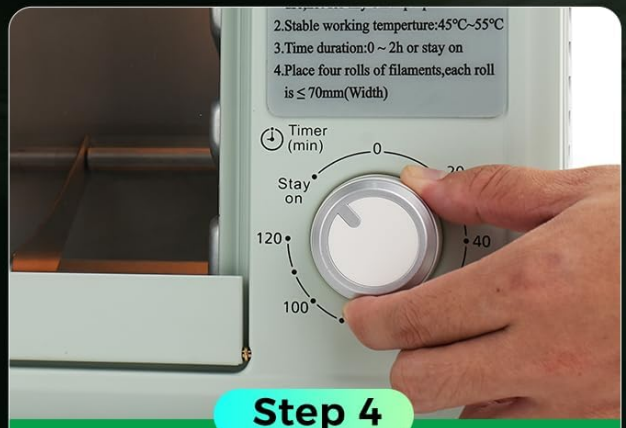
Step 2

Put the filament spool on the table, feed the filament through PTFE tube



Step 3

Put the filament spool in SH04



Step 4

Rotate the knob counterclockwise to Stay on or rotate the knob clockwise to choose 0-2H to start drying

Figure 3: Step-by-step guide for loading filament and preparing the dryer.

5. OPERATING INSTRUCTIONS

The Sovol SH04 features a simplified one-knob control for ease of use.

5.1. Power On/Off

The device powers on automatically when connected to an outlet. To turn off, disconnect from the power source.

5.2. Setting Drying Time

The default heating temperature for the SH04 is fixed at 50°C, suitable for most common filaments. You only need to set the drying duration.

1. **Timed Drying:** Rotate the knob clockwise to select a drying time between 0 and 120 minutes (2 hours). The dryer will operate for the selected duration and then turn off automatically.
2. **Continuous Drying ("Stay On"):** Rotate the knob counter-clockwise to the "Stay On" position. In this mode, the

dryer will operate continuously until manually turned off by rotating the knob to "0" or disconnecting the power. This mode is ideal for long printing sessions or for thoroughly drying highly hygroscopic filaments.



Figure 4: Control knob for setting drying time.

5.3. Intelligent Temperature Control

The SH04 maintains an intelligent temperature range between 45°C and 55°C. When the internal temperature reaches 55°C, the heating element reduces power consumption. It will re-heat when the temperature drops to 45°C, ensuring consistent drying and long-term operational safety.

INTELLIGENT TEMPERATURE CONTROL DYNAMIC CONSTANT TEMPERATURE

When heating up to 55°C, SH04 would reduce heating energy consumption.
Until temp drop to 45°C SH04 would re-heat to 55°C. Repeat this heating
cycle to ensure long-term use safety

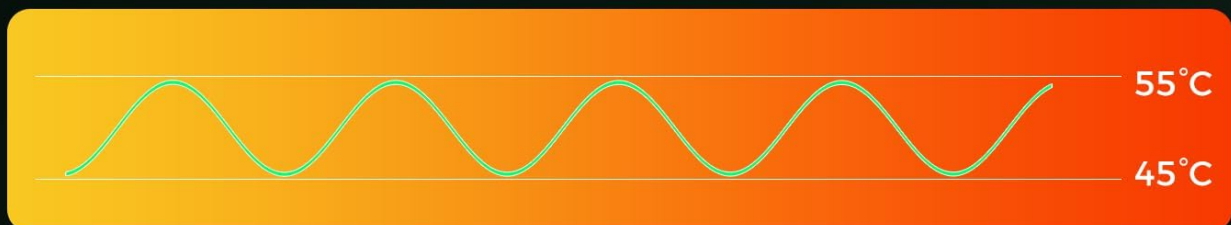
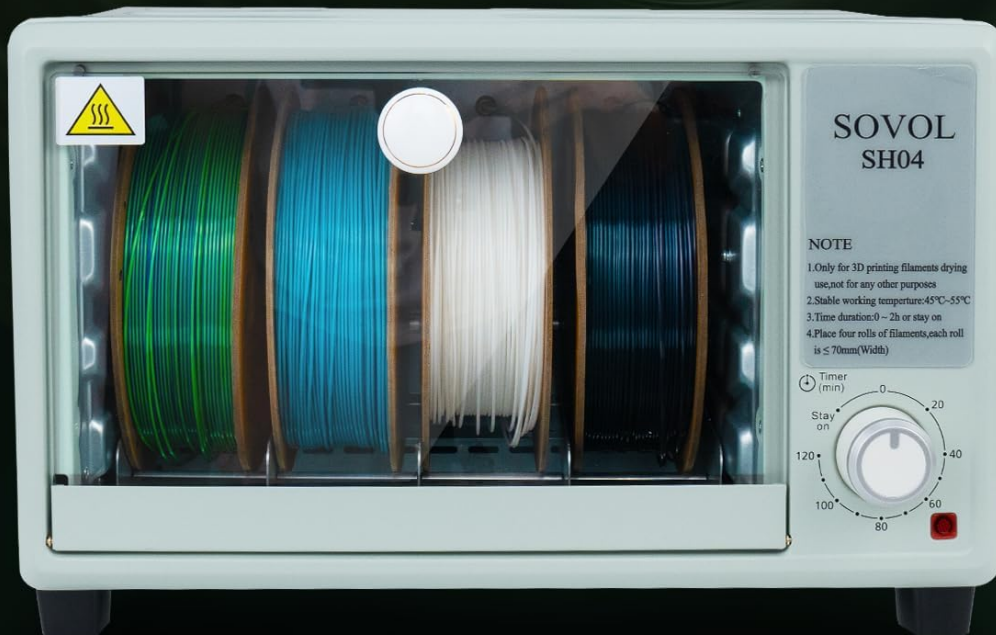


Figure 5: Intelligent temperature control mechanism.

5.4. Filament Compatibility

The SH04 is designed to effectively dry a wide range of 3D printing filaments, including but not limited to:

- PLA, PLA+
- PETG
- ABS
- TPU
- Wood
- PVA
- PVB
- HIPS
- PMMA

It supports both 1.75mm and 2.85mm diameter filaments.

UNIVERSAL COMPATIBILITY

Compatible with 1.75mm/2.85mm diameter filaments



Figure 6: Compatible filament types and diameters.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your filament dryer.

- **Cleaning:** Disconnect the power before cleaning. Use a soft, dry cloth to wipe the exterior. Do not use abrasive cleaners or solvents.
- **Internal Cleaning:** Periodically remove spools and gently wipe the interior with a dry cloth to remove any dust or filament debris.
- **Storage:** When not in use for extended periods, store the dryer in a cool, dry place.

7. TROUBLESHOOTING

If you encounter issues with your Sovol SH04, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Device does not power on.	Power cable not connected or faulty outlet.	Ensure power cable is securely connected. Test the outlet with another device.
Filament not drying effectively.	Insufficient drying time or extremely wet filament.	Increase drying time or use "Stay On" mode. For very wet filament, multiple drying cycles may be needed.
Knob not responding.	Temporary software glitch.	Disconnect power for 30 seconds, then reconnect and try again.
Unusual odors during operation.	New device "burn-in" smell or foreign material inside.	A slight odor is normal for new devices. If persistent or strong, disconnect power and inspect for foreign objects. Contact support if odor continues.



Figure 7: Common 3D printing issues resolved by filament drying.

8. SPECIFICATIONS

Feature	Detail
Model	SH04
Brand	Sovol
Capacity	Up to 4 spools (1kg / 0.25kg / 0.5kg each)
Filament Diameter Compatibility	1.75mm, 2.85mm
Heating Power	690W (Maximum)
Default Heating Temperature	50°C (Intelligent control maintains 45-55°C)
Drying Time Settings	0-120 minutes (2 hours) or "Stay On" continuous mode
Dimensions (Approximate)	20 x 14.6 x 13.7 inches (Package)

Feature	Detail
Item Weight	12.32 pounds (5.6 Kilograms)
Compatible Materials	PLA, PLA+, Wood, PETG, ABS, PVA, PVB, TPU, HIPS, PMMA

9. WARRANTY AND SUPPORT

Sovol provides a lifetime of professional technical support for the SH04 Filament Dryer Box.

If you encounter any issues or require assistance, please contact Sovol customer service through the official channels or the seller from whom you purchased the product.

For more information, visit the official [Sovol Store on Amazon](#).

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question