

Comgrow SH03

Comgrow SH03 Filament Dryer Instruction Manual

Model: SH03

1. INTRODUCTION

Thank you for choosing the Comgrow SH03 Filament Dryer. This device is designed to effectively remove moisture from 3D printer filaments, improving print quality and preventing common issues such as stringing, bubbling, and poor layer adhesion. The SH03 features dual independent heating chambers, PTC heating technology, and intelligent control for efficient and safe operation.

2. SAFETY INSTRUCTIONS

- Read all instructions before use.
- Do not operate the device with wet hands.
- Ensure the power supply matches the device's requirements (120V 60Hz).
- Keep the device away from water and high humidity environments.
- Do not block the air intake or exhaust vents during operation.
- Unplug the device when not in use or before cleaning.
- The device is equipped with multiple overheat protection mechanisms, including outlet temperature monitoring, PTC overheat circuit breaker, fan operation monitoring, and main control board temperature monitoring.

3. PACKAGE CONTENTS

Verify that all components are present:

- Comgrow SH03 Filament Dryer Unit
- Power Cable
- User Manual

4. SETUP

4.1 Unboxing and Placement

Carefully remove the filament dryer from its packaging. Place the unit on a stable, flat, and heat-resistant surface. Ensure there is adequate ventilation around the device.

4.2 Loading Filament

The SH03 features dual independent chambers, capable of holding up to four 1KG filament spools simultaneously, or two larger spools up to 150mm width. Each chamber has independent rotating modules and filament output tubes.

1. Open the transparent lid of the desired chamber(s).
2. Place the filament spool(s) onto the rotating modules. Ensure the filament unwinds smoothly.
3. Thread the filament through the designated output tube.
4. Close the lid securely.



Image: The Comgrow SH03 Filament Dryer with four 1KG filament spools loaded into its dual independent chambers.

Wide Compatibility

Compatible with 1kg/2kg spools



Image: Diagram showing the dimensions of the Comgrow SH03 Filament Dryer: 14.65 inches (L) x 11.26 inches (W) x 10.33 inches (H). It supports 1kg/2kg spools with filament diameters of 1.75mm/2.85mm.

4.3 Power Connection

Connect the power cable to the device and then plug it into a standard electrical outlet.

5. OPERATING INSTRUCTIONS

5.1 Power On/Off

Press the power button to turn the device on. The integrated segment display will illuminate.

5.2 Touchscreen Operation

The SH03 features an intuitive touchscreen interface for setting parameters. The display shows real-time humidity, real-time temperature, target temperature, and set drying time for each chamber.

Real-time monitoring of filament

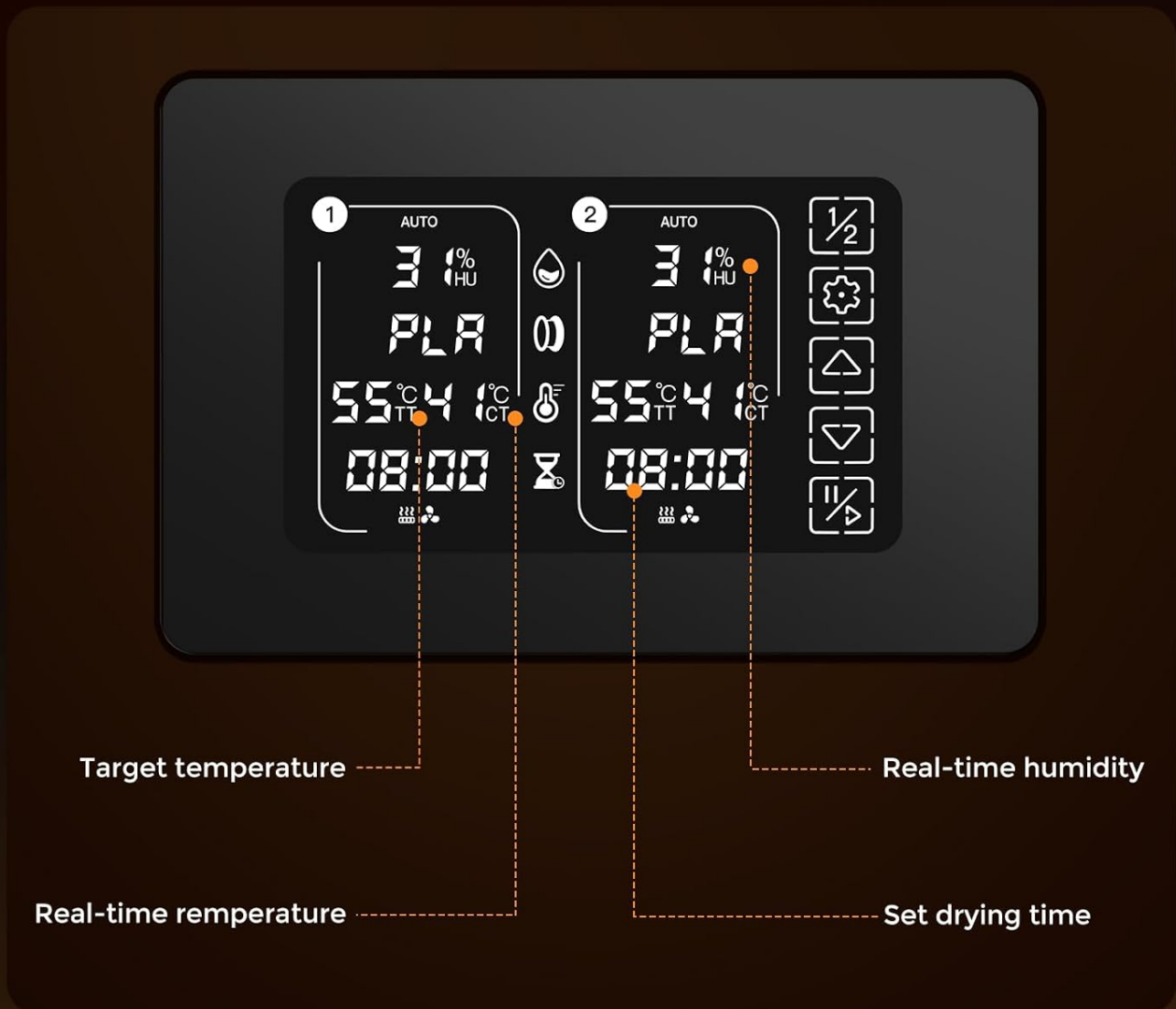


Image: The touchscreen display of the Comgrow SH03 Filament Dryer, illustrating real-time monitoring of humidity, temperature, and drying time for both chambers.

5.3 Setting Drying Parameters

You can set the temperature and drying time for each chamber independently. The adjustable temperature range is 45-85°C (113-185°F), and the maximum continuous operation time is 98 hours.

1. **Select Chamber:** Short-press the chamber switch/copy key to toggle between Chamber 1, Chamber 2, or dual-chamber simultaneous operation.
2. **Set Material:** Use the up/down arrows to select the filament type (e.g., PLA, PETG, ABS). The device has a dedicated 50°C preset for PLA.
3. **Adjust Temperature:** Use the temperature up/down arrows to set the desired drying temperature.
4. **Adjust Time:** Use the time up/down arrows to set the desired drying duration.
5. **Start/End:** Press the Start/End button to begin or stop the drying process.

To copy one chamber's parameters to the other, long-press the chamber switch/copy key for 2 seconds.

5.4 Automatic Drying Mode

When Automatic Drying Mode is activated (AUTO indicator illuminates), the drying function engages when internal humidity exceeds a preset threshold. Once humidity drops below the threshold, the dryer continues for a 30-minute countdown, then enters energy-saving storage mode.

To enter/exit Auto Mode, long-press the setting selection key/Auto Mode button for 2 seconds.

5.5 Recommended Drying Settings

Refer to the table below for recommended temperature and time settings for various filament types:

Simultaneously dry 4 rolls of filament

Recommended consumable drying temperature										
filament	PLA	PETG	TPU	ABS	PET	PC	ASA	PA	PVA	PP
temperature	50°C	65°C	70°C	80°C	80°C	80°C	80°C	80°C	50°C	55°C
time	8H	12H	12H	12H	12H	12H	12H	8H	8H	8H

Image: A table displaying recommended drying temperatures and times for common 3D printing filaments including PLA, PETG, TPU, ABS, PET, PC, ASA, PA, PVA, and PP.

Recommended Filament Drying Parameters

Filament Type	Drying Temperature	Drying Time
PLA	50°C	4-12 hours

Filament Type	Drying Temperature	Drying Time
PETG	65°C	4-8 hours
TPU	70°C	4-8 hours
ABS	80°C	8-12 hours
PET	80°C	8-12 hours
PC	80°C	8-12 hours
ASA	60°C	8-12 hours
PA	70°C	8-12 hours
PVA	50°C	4-8 hours
PP	55°C	4-8 hours

5.6 Active Dehumidification

The unit features independent airflow channels and automatically controls the dehumidification damper. If the internal temperature exceeds the preset value during drying, the air intake and exhaust vents open automatically to regulate temperature, preventing overheating and potential filament damage.

Automatic dehumidification

When the cavity's internal temperature exceeds the preset threshold, the air inlet and outlet ports auto-open for drying and dehumidification



Image: The Comgrow SH03 Filament Dryer demonstrating its automatic dehumidification process, where air vents open to release moisture when internal temperature exceeds the threshold.

5.7 Official Product Video

Your browser does not support the video tag.

Video: An official product video from Comgrow demonstrating the features and operation of the SH03 Filament Dryer.

6. MAINTENANCE

6.1 Cleaning

To ensure optimal performance and longevity of your Comgrow SH03 Filament Dryer, regular cleaning is recommended.

- Always unplug the device from the power outlet before cleaning.
- Use a soft, dry cloth to wipe down the exterior surfaces of the dryer.
- For the transparent lids, use a slightly damp cloth if necessary, then dry thoroughly. Avoid abrasive cleaners or

solvents that could damage the plastic.

- Ensure that the air intake and exhaust vents are free from dust and debris to maintain proper airflow and dehumidification. Use a soft brush or compressed air if needed.
- Do not immerse the device in water or any other liquid.

6.2 Storage

When not in use for extended periods, store the filament dryer in a cool, dry place, away from direct sunlight and extreme temperatures. It is advisable to keep the original packaging for storage and transport.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your Comgrow SH03 Filament Dryer.

7.1 Device Not Powering On

- Check if the power cable is securely connected to both the device and the electrical outlet.
- Verify that the electrical outlet is functional by plugging in another device.
- Ensure the power button on the device is pressed.

7.2 Filament Not Drying Effectively

- Confirm that the correct temperature and drying time are set for your specific filament type (refer to Section 5.5).
- Ensure the lids are properly closed to maintain the internal environment.
- Check that the air intake and exhaust vents are not obstructed, allowing for proper dehumidification.
- For very moist filament, a longer drying time may be required.

7.3 Overheating or Error Beeping

The SH03 is equipped with quadruple overheat protection. If the device detects an abnormal temperature, it may beep or temporarily shut down heating.

- If the PTC temperature surpasses 130°C, heating will automatically shut off and resume once it drops below 90°C. This is a normal safety feature.
- Ensure the device is placed in a well-ventilated area and not covered.
- Check for any obstructions in the air vents or fan.
- If the issue persists, contact customer support.

7.4 Display Issues

- If the display is not showing information correctly, try powering off the device and restarting it.
- Ensure the screen is clean and free from moisture or debris.

8. SPECIFICATIONS

Feature	Detail
Brand	Comgrow
Model	SH03
Input Voltage	120V 60Hz

Feature	Detail
Rated Power	400W
Filament Diameter Compatibility	1.75mm / 2.85mm
Maximum Consumable Capacity	Four rolls of consumables (each ≤70mm width) or Two rolls of consumables (each ≤150mm width)
Display Humidity Range	0-99%
Display Temperature Range	0-99°C
Operating Temperature Range	45°C - 85°C (113°F - 185°F)
Dimensions (L x W x H)	14.65in x 11.34in x 10.35in
Product Weight	7.5 lbs
Environmental Parameters	5°C - 40°C
Compatible Filaments	PLA, ABS, PETG, TPU, PVA, ASA, PA, PP, PC, PET
Heating Modules	Dual 200W PTC Ceramic Heating
Additional Features	Dual independent heating chambers, automatic drying mode, active dehumidification, comprehensive safety features, touchscreen control

9. WARRANTY & SUPPORT

9.1 Warranty Information

For specific warranty details regarding your Comgrow SH03 Filament Dryer, please refer to the warranty card included with your product or visit the official Comgrow website. The warranty typically covers manufacturing defects under normal use conditions.

9.2 Customer Support

If you encounter any issues or have questions not covered in this manual, please contact Comgrow customer support. You can usually find contact information (email, phone, or support portal) on the official Comgrow website or through your purchase platform.

When contacting support, please have your product model (SH03) and purchase information readily available.

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