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› CREALITY Space Pi Filament Dryer Plus User Manual

Creality AMUS-HYZ-3D-AC-DryerBox-Pro

CREALITY Space Pi Filament Dryer Plus User Manual

Brand: Creality

Model: AMUS-HYZ-3D-AC-DryerBox-Pro

1. INTRODUCTION

The Creality Space Pi Filament Dryer Plus is an advanced solution for maintaining optimal 3D printer filament quality. This dryer box is engineered to efficiently remove moisture from various filament types, ensuring consistent and high-quality 3D prints. Its innovative heating system and user-friendly interface make it an essential tool for any 3D printing enthusiast.



The Creality Space Pi Filament Dryer Plus, showcasing its sleek design and integrated display.



2024 New Generation

Creality Space Pi Filament Dryer Plus

Lager Capacity, Smarter and More Efficient



Adjustable
temperature 45°C-70°C



Power-off
Memory



Drying time
setting 0-48h



360° PTC
hot-air heating



One-key set for
12 filaments



Two rolls
capacity

Overview of the Creality Space Pi Filament Dryer Plus features.

Why Dry Filament?

Filament, especially hygroscopic types like PETG and Nylon, absorbs moisture from the air. This moisture can lead to various printing issues, including stringing, bubbling, poor layer adhesion, and weakened prints. Drying filament before printing significantly improves print quality, strength, and overall success rates.



Visual comparison of prints with and without filament drying.

2. SETUP

Unboxing and Initial Inspection

Carefully remove the filament dryer from its packaging. Inspect the unit for any signs of damage during transit. Ensure all components listed in the packing list are present.

Placing Filaments

The Creality Space Pi Filament Dryer Plus is designed to accommodate two 1kg filament spools simultaneously. Open the top cover of the dryer. Place your filament spools onto the internal rollers. Ensure the spools rotate freely.

Two Rolls Capacity Design

It contains 2 rolls of 1kg filaments and is also equipped with 2 filaments holes and PTFE pipes to meet the needs of users drying a wide range of filaments as well as 2 printers at the same time.



The dryer's two-roll capacity design.

Connecting PTFE Tubes (Optional for Direct Printing)

If you intend to print directly from the dryer, insert the provided PTFE tubes into the filament holes on the top of the unit. Guide the filament through the tubes and connect them to your 3D printer's extruder input.

Power Connection

Connect the power adapter to the dryer's power input port, typically located at the rear of the unit. Plug the adapter into a suitable power outlet. Flip the power switch to the 'ON' position.

Setup Demonstration Video

Official Creality video demonstrating the setup process for the Space Pi Filament Dryer Plus.

3. OPERATING INSTRUCTIONS

LCD Touch Screen Overview

The 4-inch LCD touch screen provides real-time information and allows for easy control of the drying process. You can monitor real-time humidity, temperature, and the drying countdown.



The intuitive LCD touch screen interface.

One-Key Filament Settings

The dryer features one-key temperature settings for 12 common and high-performance composite filament types. Simply select your filament type, and the dryer will automatically set the recommended temperature. You can also manually adjust the temperature between 45°C and 70°C.

One-key Set for 12 Filaments

It has one-key temperature settings for different filament types, supporting up to 12 types of filaments, including common and high-performance composite like PLA-CF, PA-CF, ASA. Of course, you can also freely adjust the temperature between 45°C and 70°C.



Recommended drying temperature for filaments

PLA	TPU	PP	ABS	ASA	PETG	PC	PA	PET	PLA-CF	PETG-CF	PA-CF
50°C	55°C	55°C	65°C	65°C	60°C	65°C	65°C	60°C	50°C	60°C	65°C
4-8h	4-8h	4-8h	8-12h	8-12h	4-8h	8-12h	≥12h	4-8h	4-8h	4-8h	≥12h

Pre-set drying profiles for various filament materials.

PTC 360° Hot-Air Heating Technology

The dryer utilizes a unique 110W PTC heater and a built-in fan to circulate hot air 360° for uniform heating. This advanced technology ensures effective moisture removal without uneven drying, which is common with traditional PI heating pads.

Double PTC 360° Hot-air Heating

The dryer quickly heats with a built-in fan, circulating hot air 360° for uniform heating, effectively drying moisture filaments and improving printing results.

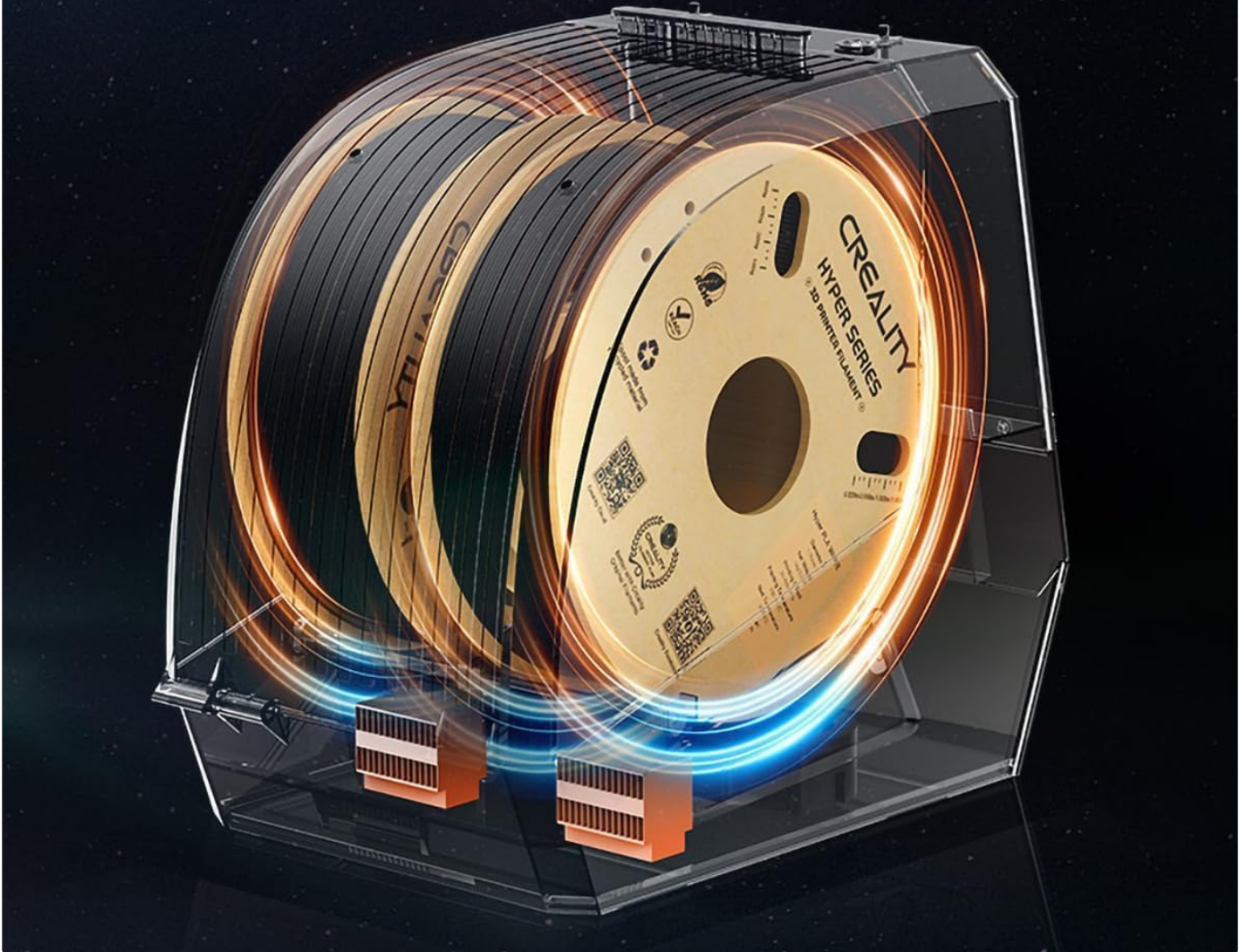
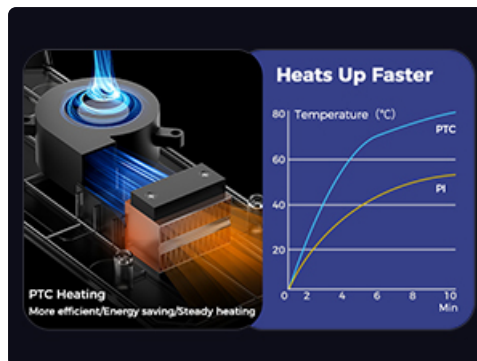


Illustration of the 360° hot-air heating system.



Comparison of heating efficiency between PTC and PI heating methods.

Filament Compatibility

The dryer is compatible with 99% of FDM 3D printer filaments, supporting multiple diameters (1.75mm and 2.85mm). This includes PLA, ABS, PETG, TPU, PP, PA, PC, ASA, PET, PLA-CF, PETG-CF, and PA-CF.

Compatible with Multiple Diameter Filaments

3D printer
filament
diameter:

1.75mm

3D printer
filament
diameter:

2.85mm



Visual representation of compatible filament diameters.

Integration with 3D Printers

The dryer can be seamlessly integrated with various 3D printers, allowing for direct printing with consistently dry filament. This setup minimizes exposure to ambient moisture during the printing process.



The dryer integrated into a 3D printing setup.

4. MAINTENANCE

Cleaning

Regularly wipe the exterior of the dryer with a soft, dry cloth. For the interior, ensure the unit is unplugged and cooled down before cleaning. Use a soft brush or vacuum to remove any filament dust or debris from the heating elements and rollers.

Desiccant Replacement (If Applicable)

While the dryer uses active heating, some models may include desiccant packets for passive moisture absorption when not in use. Check your specific model for desiccant compartments. Replace desiccant packets as needed, typically when they change color indicating saturation.

5. TROUBLESHOOTING

Filament Not Drying Effectively

- **Check Temperature Settings:** Ensure the correct temperature and duration are set for your specific filament type. Refer to the operating instructions for recommended settings.
- **Verify Lid Seal:** Make sure the dryer lid is properly closed and sealed to prevent ambient moisture from entering.
- **Overly Saturated Filament:** For extremely wet filament, a longer drying time may be required. Consider drying for 8-12 hours or more for highly hygroscopic materials.

Filament Feeding Issues

- **PTFE Tube Alignment:** Ensure the PTFE tubes are correctly inserted and aligned with your printer's extruder to prevent kinks or excessive friction.
- **Spool Movement:** Verify that the filament spools can rotate freely on the internal rollers. Adjust their position if

necessary.

Display Not Responding / Unit Not Powering On

- **Power Connection:** Check that the power adapter is securely connected to both the dryer and the power outlet. Ensure the power switch is in the 'ON' position.
- **Power Outlet:** Test the power outlet with another device to confirm it is functional.

6. SPECIFICATIONS

Feature	Specification
Brand	Creality
Model Number	AMUS-HYZ-3D-AC-DryerBox-Pro
Item Weight	4.18 pounds (1.9 Kilograms)
Product Dimensions	8.6 x 11.8 x 13.3 inches
Color	Creality Space Pi Filament Dryer Plus Black
Material Type	Metal
Number of Items	2 (referring to spool capacity)
Heating Technology	PTC 360° Hot-air Heating
Heating Power	160W
Temperature Range	45°C - 70°C
Display	4-inch LCD Touch Screen
Filament Diameter Compatibility	1.75mm, 2.85mm
Supported Filament Types	PLA, ABS, PETG, TPU, PP, PA, PC, ASA, PET, PLA-CF, PETG-CF, PA-CF

7. WARRANTY AND SUPPORT

Creality is committed to providing responsible after-sales service and lifetime technical support for the Official Creality Space Pi Filament Dryer Plus.

If you encounter any problems or have questions regarding your product, please do not hesitate to contact us through the Amazon Message Center. Our support team will respond quickly, typically within 24 hours, to assist you with any issues or inquiries.

For additional resources and information, you may also visit the official Creality website or their store on Amazon:

- [Creality Amazon Store](#)

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