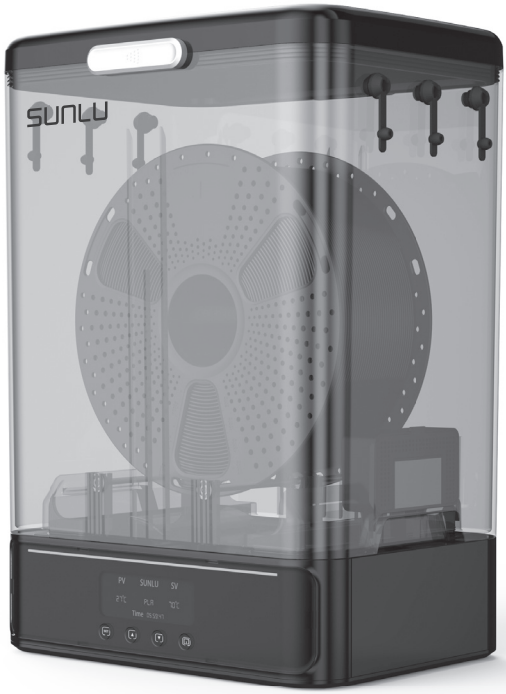
SUNLU




# FilaDryer SP2 User Manual

3D Printing-Mate

RoHS FC CE

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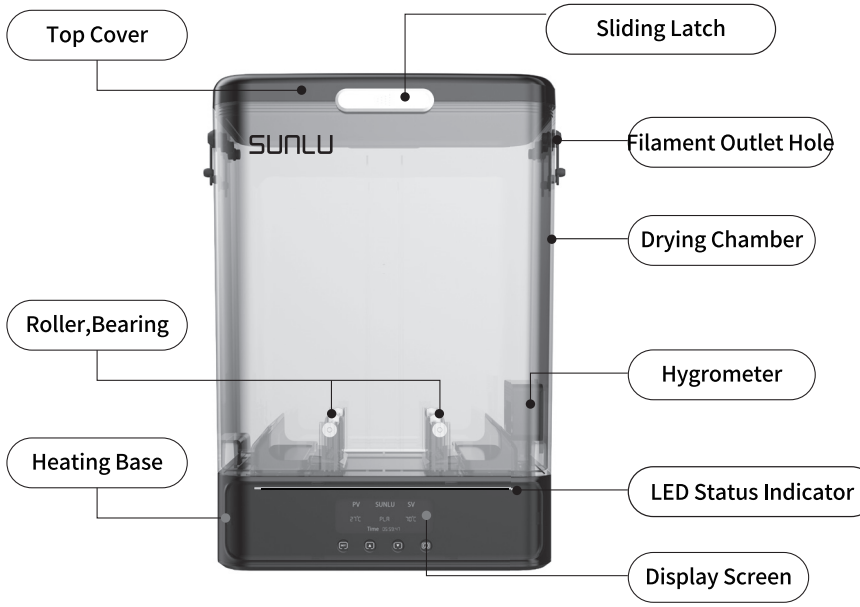
# 1 Package Contents

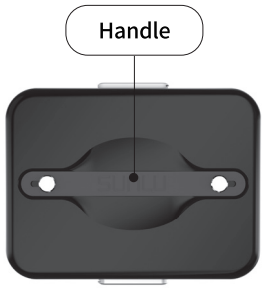
| | | | | | |
|---|---|---|---|---|---|
| ❶ | Drying Chamber | X1 | ❼ | Spool Roller | X1 |
| ❷ | Heating Base | X1 | ❽ | Airlock | X2 |
| ❸ | Hygrometer | X1 | ❾ | PTFE Tube 8cm | X2 |
| ❹ | Desiccant | X1 | ❿ | PTFE Tube 1m | X2 |
| ❺ | Desiccant Box | X1 | ⓫ | User Manual | X1 |
| ❻ | Power Cable | X1 | | | |

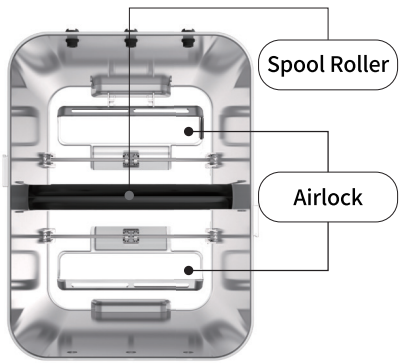
# 2 Technical Specifications

| | |
|---|---|
| Product Name | Filament Dryer |
| Model | SP2 |
| Product Dimentsions | 278mm×208mm×396mm(LWH) |
| Internal Dimentsions | 265mm×193mm×274mm(LWH) |
| Maximum Spool Size | ϕ250mm×153mm<br>(1kg×2 or 2kg×1 or 3kg×1) |
| Net Weight | 3.6KG |
| Operating Environment | Temperature: 10°C-35°C, Relative Humidity: ⩽95% |
| Work Temperature Range | 35°C-70°C |
| Humidity Display Range | efer to the Hygrometer：10%-90% |
| Time Setting Range | 0-99H |
| Power Input Specifications | AC 110V 60Hz or AC 220V 50Hz |
| Maximum Operating Current | 2.2A @230V 4.2A@120V |
| Maximum Working Power | 250W |
| Standby Power | ⩽1W |
| Kompatibler Filamentdurchmesser | ϕ1.75mm/ϕ2.85mm |

# 3 Component Description






# 4 Important Notes

● Filament DryingTemperature/Time Recommendations

| Material | PLA/PLA+ | WOOD | PETG | TPU | PVA | PVB | ASA | ABS | PA/PC |
|---|---|---|---|---|---|---|---|---|---|
| Drying Temperature | 50-55°C | | | | 65-70°C | | | | 65-70°C |
| Drying Time | 4-6h | | | | 4-6h | | | | 10-12h |

1、To ensure optimal drying results, do not open the drying chamber cover during the drying process.

2、When the ambient temperature is below 10'c, slow heating or the actual temperature inside the chamber being slightly lower than the displayed temperature is normal.

3、The desiccant in this product is orange at room temperature and turns dark green after absorbing moisture. It can be restored to orange by drying at 70°C and reused.

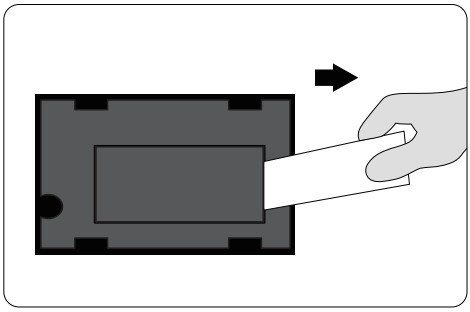
4、When seting the working temperature to 70'c, please ensure the filament spool has a temperature tolerance greater than 70"c to avoid deformation

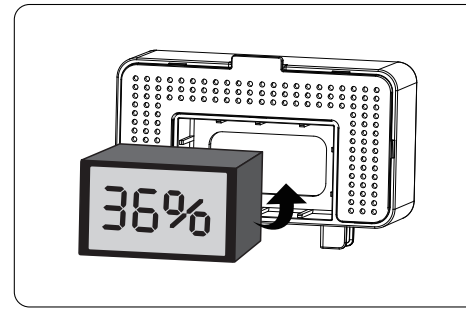
## 5 Safety Precautions ⚠

- 1. Do not place this product within the reach of children.
- 2. Pay attention to electrical safety during operation. Do not use this product near water, such as in bathrooms, bathtubs, washbasins, or other areas where water is easily accessible.
- 3. Please use the original power cord or a power cord that meets safety certification requirements.
- 4. When not using this product, please turn off the power to avoid sudden fire hazards.
- 5. During the operation of this product, do not place it on temperature-sensitive objects.
- 6. During the operation of this product, do not touch the heater or fan inside the chamber to avoid burns. When drying materials, ensure the drying chamber cover is properly closed to prevent heat loss.
- 7. Avoid moving this product during normal operation to prevent burns caused by the high temperature of the outer surface.
- 8. Do not block the internal air intake and exhaust vents to prevent heat buildup and potential malfunctions.
- 9. If the product malfunctions, please turn off the power and disconnect the power cord from the power outlet, then contact the after-sales support team.

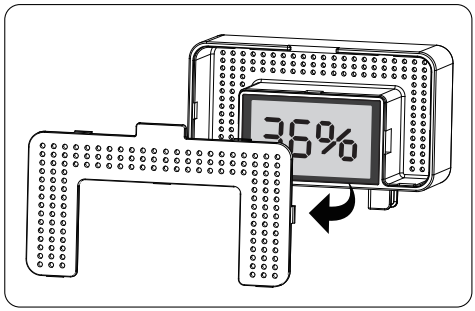
# 6 Operating Instructions

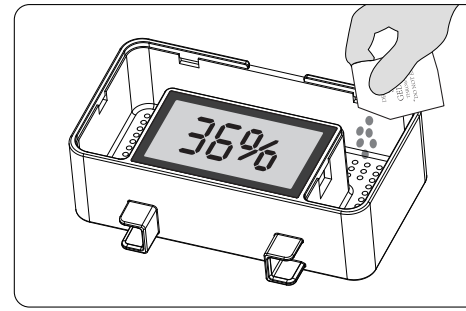
01/、Take out the hygrometer, open the lid, cut open the desiccant,and pour it into the hygrometer and assemble it together with thedesiccant box.

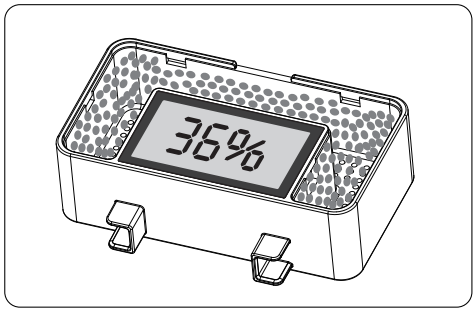


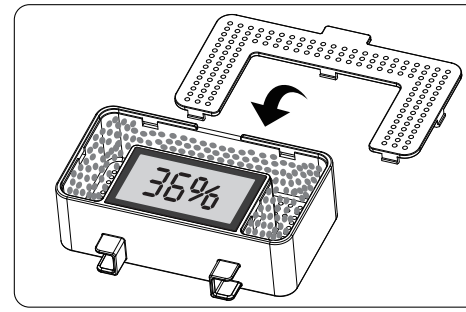



02/Open the lid of the desiccant box, cut open the desiccant, and pour it into the desiccant box. Then, securely close the lid.



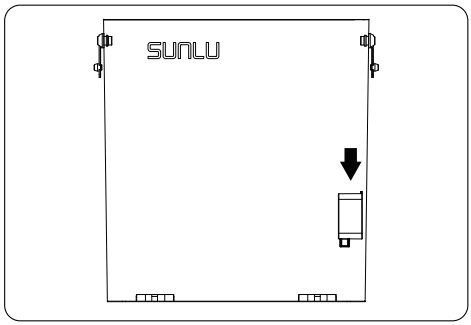



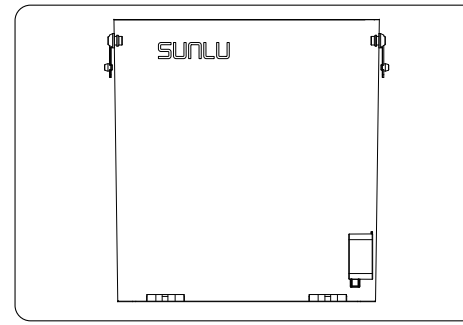



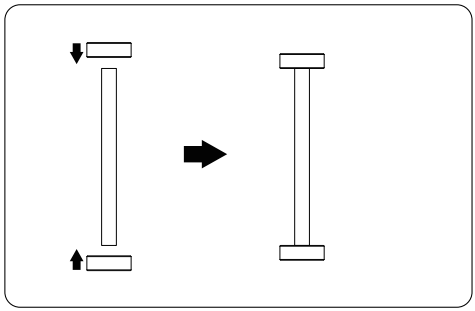
# 6 Operating Instructions

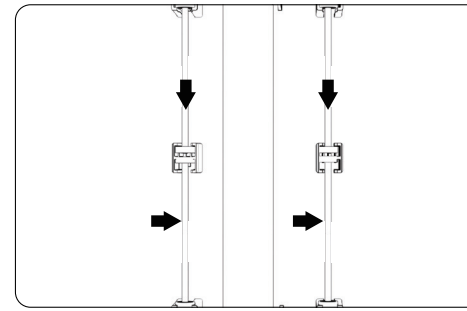
03/Insert the assembled hygrometer into the groove on the side of the chamber.



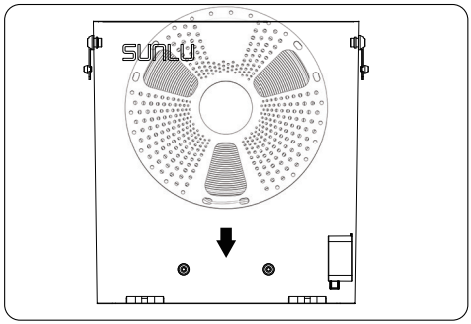

04/Remove the bearing and roller, insert the roller into the bearing, place it in the recessed groove at the bottom of the chamber, and slide the roller to ensure smooth rotation.

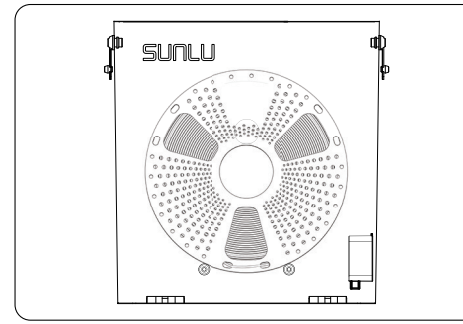




05/Filament Installation:

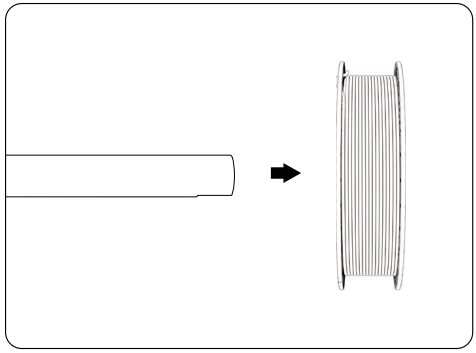
1) For 1kg/2kg/3kg filaments, secure them by placing them on the roller shaft.

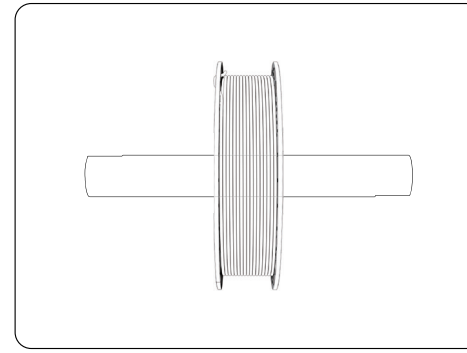


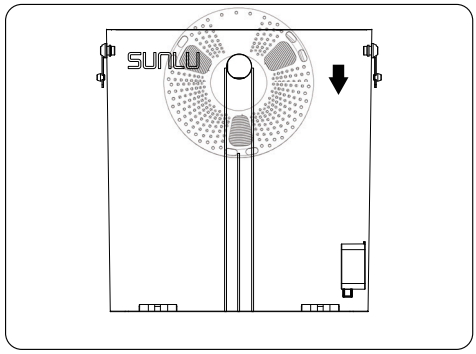



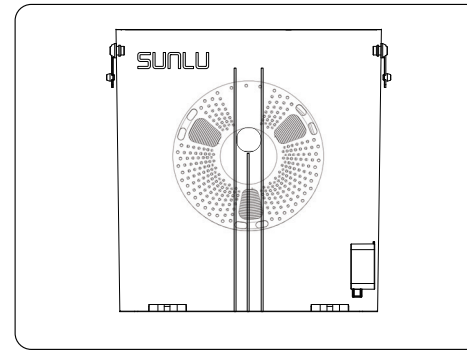
# 6 Operating Instructions

2) For 0.25kg/0.5kg filaments, secure them by threading them through the spool rollers, it should be noted that the smooth side should face up.

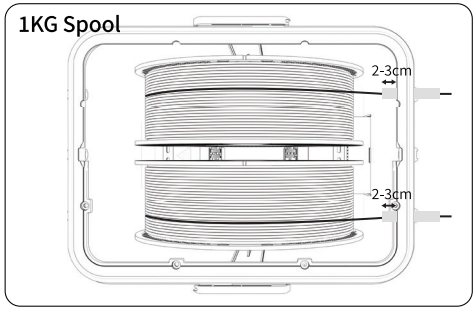


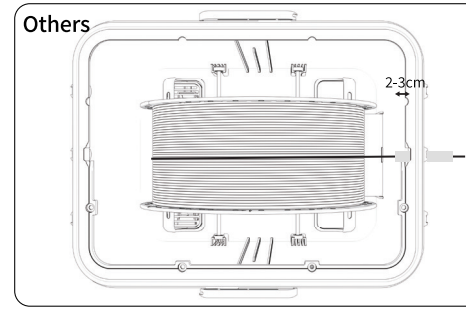




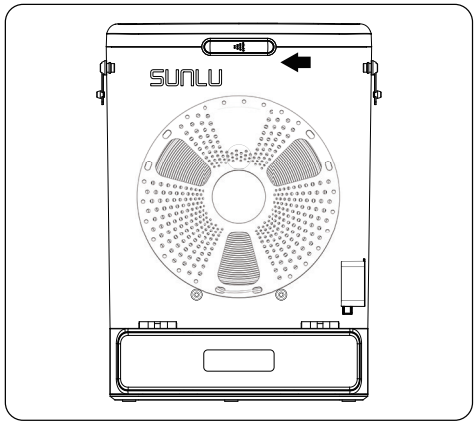

06/Select the appropriate hole based on the size of the filament being used. Insert the PTFE tube into the rubber stopper, then feed the filament through the PTFE tube.

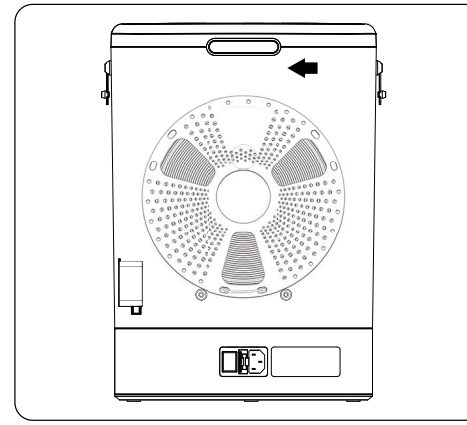


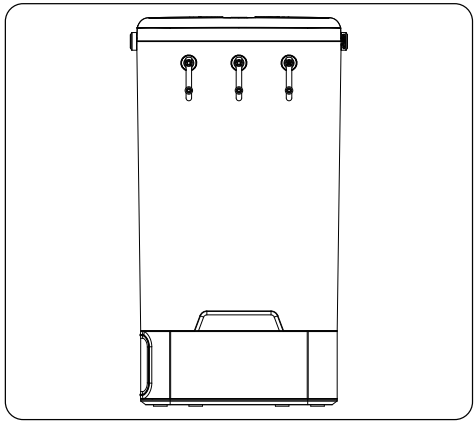
# 6 Operating Instructions

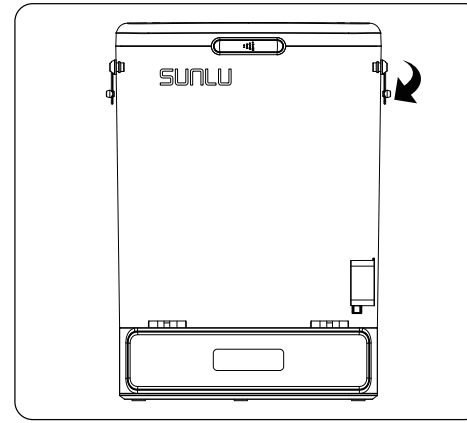
07/Close the top cover and secure the latch. At the same time, fix the drying chamber to the heating base (when facing the screen, the hygrometer of the chamber should be on the right side).



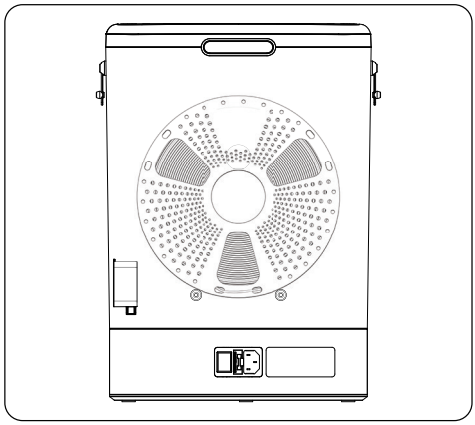
08/To achieve the best drying effect for the filament, it is recommended to remove thesilicone stopper from the filament feed hole during the drying process (to alloweffective moisture expulsion).

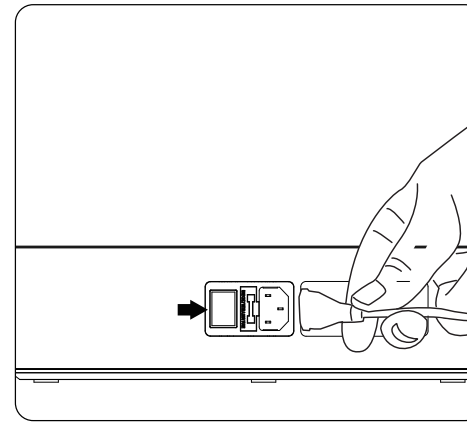




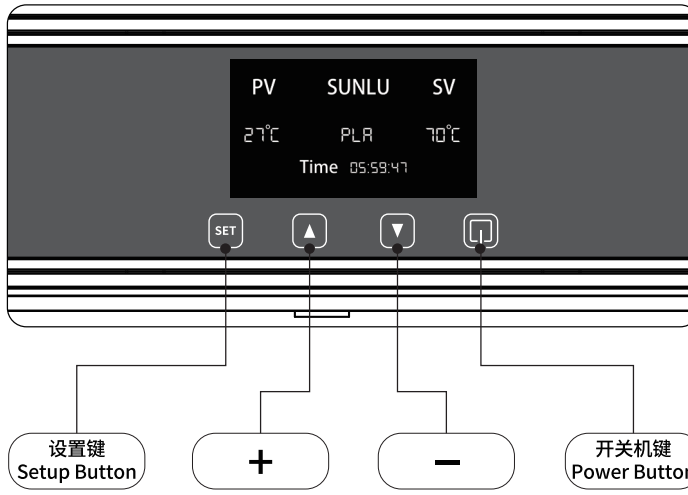
# 6 Operating Instructions

09/Connect to the power supplyand flip the switch.





10/Screen Function Display



# 6 Operating Instructions

11/Operation Method (Bedienungsmethode)

1、Click ⏻ to wake up the screen, and then click SET to perform related operations.

2、Click SET when °C flashes, then click ▲ ▼ to switch temperature units (°C/°F).

3、Click SET to power on, and click ▲ ▼ to adjust different lighting effects.
(1) Flowing light:→→ →→ When the temperature reaches the preset level, the lighting effect will switch to steady on mode.

(2) Diffusion light:←← →→The lighting effect will remain constant and unaffected by external factors.

(3) Steady on(ständig leuchten): —— ——  (4) Off(ausschalten): ▭▭ ▭▭

4、Click SET when PLA flashes, then click ▲ ▼ to adjust the filament type (PLA, PETG, TPU, ABS, PA, PC).

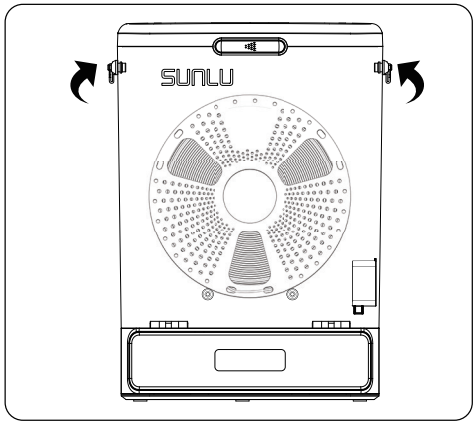
5、Click SET when SV flashes, then click ▲ ▼ to adjust the preset drying temperature for the current filament (35°C-70°C).

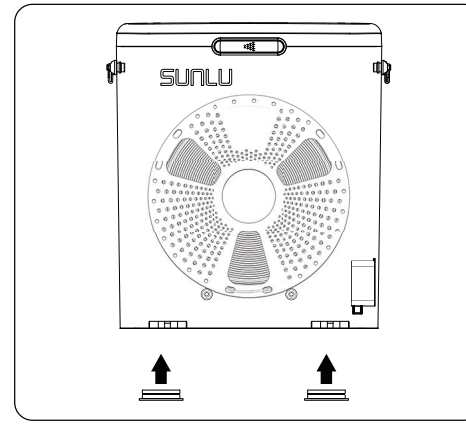
6、Click SET when Time flashes, then click ▲ ▼ to adjust the drying time (0-99H). The timer will reset to zero, and the machine will stop working.

7、Double-click ⏻ to turn off the display, stop the heating, and the fan will shut down after 3 minutes. (Purpose: To prevent internal heat buildup and temperature accumulation on the mother-board during the heating process.)

# 6 Operating Instructions

12/To keep the filament dry (prevent remoisture), after drying is complete,remove the drying chamber, install the airlock at the bottom, and tightlyplug the filament outlet hole with the silicone stopper.



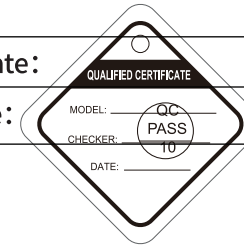

# 7 Common Troubleshooting

If the product encounters the following issues during use, please try the methods listed in the table below to troubleshoot. If the issue persists, please contact us.

| Issue | Possible Causes | Troubleshooting Methods |
|---|---|---|
| Failure to Power On | Abnormal Power Connection | Check whether the power cord is properly connected to the socket, and verify if the fuse is blown. |
| Screen Garbling/ Incomplete Display | Poor contact or a damaged display screen. | Power off andrestart .Ifthe issue persists, thedisplay screen may need to be replaced. Pleasecontact us. |
| ER1 | Abnormal Temperature Detection | Check whether the temperature sensor connection is secure. |
| ER2 | PTC Heating Fan Malfunction | Check whether the fan is not rotating or is obstructed by foreign objects. |

## 8 Certificate of Conformity

| | |
|---|---|
| Product Name: | Manufacture Date: |
| Inspector: | Inspection Date: |




## 9 After-Sales Service

1. The product comes with a one-year warranty under normal operating conditions as shown in this manual.
2. The warranty does not cover damages caused by using power cables of different specifications or incorrect operation as per the instructions in the manual during the warranty period.

## 10 Contact us

### Sunlu (Guangdong) Technology Co., Ltd.

Official website: www.3dsunlu.com
Brand cooperation: branding@sunlu.com
Business cooperation: sales@sunlu.com
After-sales service: support@sunlu.com
Manufacturing Address: No. 162 Tanlong North Road, Tanzhou Town, Zhongshan City, China.

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