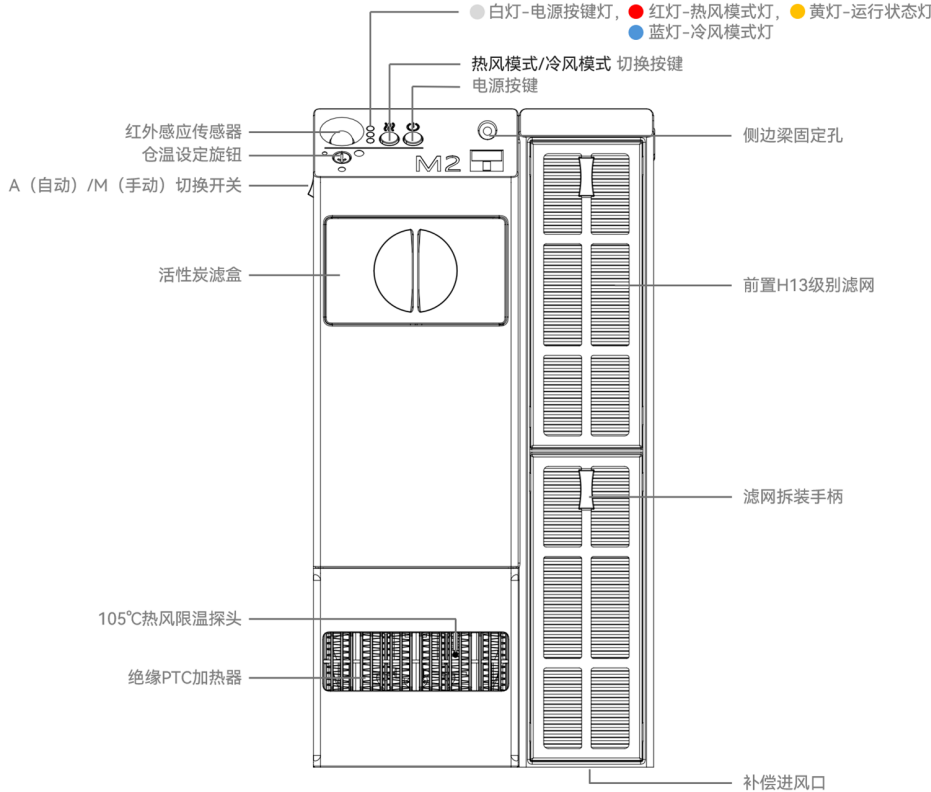


仓温净化器 M2

产品使用说明书

目录

- 1、重要安全提示
- 2、基本参数&包装清单
- 3、安装与使用
- 4、使用指南
- 5、配件获取与使用
- 6、问题诊断



1、重要安全提示

警告 ⚠

- 严禁带电安装作业，安装本产品时，需确保打印机电源已断开，以免造成人身伤害。
- 在操作产品电源线接线时，需确保接线正确无误，接线颜色蓝/棕与打印机内电线颜色一致即可。
- 注意静电防护，干燥天气安装时需释放双手静电，避免静电击穿损坏本产品与打印机内部电子元器件。
- 禁止使用导电尖锐物品深入热风风口内部，以防止损坏本产品以及触电危险。
- 使用时请务必安装活性炭滤盒，以确保气流路径符合设计标准。
- 严禁遮挡热风风口与前置滤网区域，以免因气流不畅过热损坏本产品。

注意

- 本产品在首次通电时，若电源按键按下，红外运动检测传感器会进行参数标定，产品会最多运行180s左右再进入待机模式。
- 自动模式下，当检测到目标物移动时，本产品开始工作，当目标物体停止移动一段时间，本产品将自动停止工作（约180秒左右，若开启了加热，加热会提前关闭以降低加热器余温）。
- 请使用一字螺丝刀调节仓温旋钮，调节过程请不要用力过大，以免损坏调节旋钮。
- 拓竹P2系列打印机自带仓温读取，但由于其温度传感器位置靠近机身外壳，在内外温差较大时，仓温显示比实际偏低（设置仓温60°C，打印机读取只有50°C左右，参照下图红框），测量验证仓温请使用第三方测温设备，以免造成误解。



- 在炎热夏季使用时，即使不开启仓温，打印ABS等高温耗材时，仓温已经超过50°C。开启主动仓温60°C后，由于热床温度较高，热床水平线上局部区域温度可能会高于60°C，可以适当开启外排风扇来稳定仓温。
- 活性炭包装在运输过程中会有粉末产生，装入活性炭盒后需要先抖除粉末与细碎颗粒再使用，以免造成污染。
- 无论是否安装主动仓温加热设备，P2S打印机的左右塑料侧板，在打印仓温50°C以上时会产生轻微变形（向外拱起或内凹），此为正常现象，不影响正常使用。如发生变形，可联系打印机商家更换左右塑料侧板。

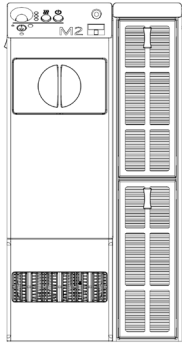
2、基本参数&包装清单

基本参数

产品名称: MartilloTech 仓温净化器 M2
产品型号: 220V版/110V版
输入电压: AC 220V / AC 110V
额定功率: 300W
温度调节范围: 40°C-60°C
产品尺寸: 144mm*278mm*49mm
产品净重: 620±10g

包装清单

① 仓温净化器 M2



3、安装与使用

安装注意事项:

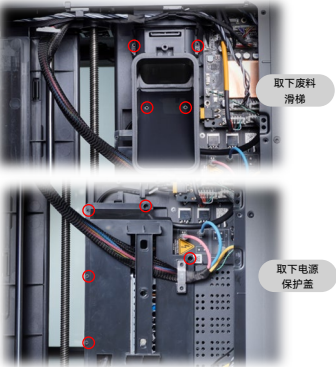
- 安装前请将热床降到最低位置后关闭电源，并取下P2S左侧板中间的固定螺丝。
- 紧固螺丝请勿用力过度，以免损坏塑料螺丝柱。
- 本产品由交流市电供电，接线时按照蓝线-蓝线、棕线-棕线同色接线即可。

安装步骤

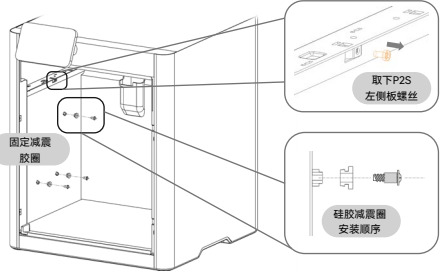
- 取下打印机背板的固定螺丝，拆下打印机背板。



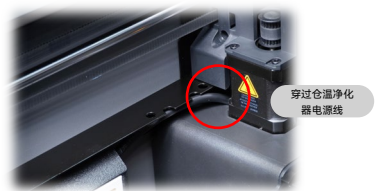
- 取下图中9颗螺丝，拆下打印机废料滑梯与电源保护盖。



- 固定3个减震硅胶圈，取下P2S左侧固定侧板的1颗螺丝。将仓温净化器M2背后的3个安装孔对准硅胶圈插入，向上推举仓温净化器M2卡紧硅胶圈。卡紧后固定仓温净化器M2顶部螺丝。

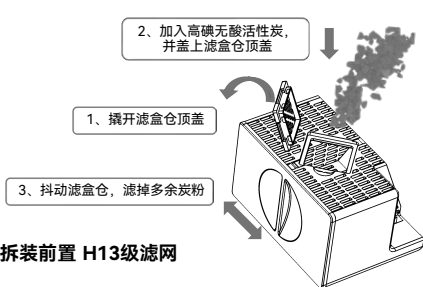


- 将仓温净化器M2的电源线从图中位置穿过，并固定到图示220V接线端子处。

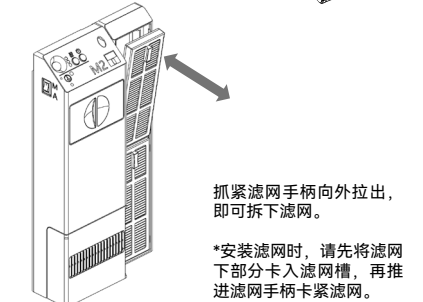


- 按照原拆卸路径，依次装回电源保护盖、废料桶、打印机背板。

装填高碘无酸活性炭



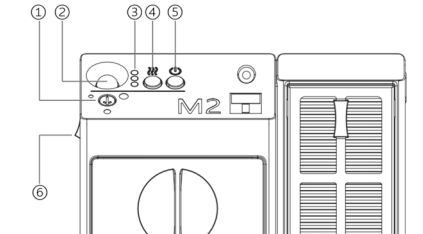
拆装前置 H13级滤网



4、使用指南

按键说明

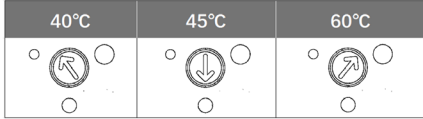
- 仓温设定旋钮: 通过一字螺丝刀调节该旋钮，可设定仓温保持在40°C-60°C。顺时针调节旋钮，设定值减小直至40°C；逆时针调节旋钮，设定值增大直至60°C。
注意: 使用螺丝刀调节旋钮时，切勿用力过大，以免超出旋钮极限角度导致损坏!
- 红外感应传感器: 该传感器通过红外光检测打印机的工具头移动情况，来判断打印是否开启，从而控制仓温净化器自动跟随打印任务启停。
- 指示灯: 白色-电源指示灯、红色-热风模式灯、蓝色-冷风模式灯、黄色-运行指示灯（黄色灯亮代表机器正在运行,黄灯灭代表机器停止运行）。
- 热风模式/冷风模式切换按键: 按下此按键，红色指示灯亮，热风模式开启。此按键弹上，红色指示灯变为蓝色，冷风模式开启。
- 电源按键: 按下此按键，白色指示灯亮，本产品电源接通。
- A/M切换开关: 此开关为自动/手动切换开关。当此开关下部分（A）被按下，仓温净化器为自动模式，在此模式下，仓温净化器的启动与停止跟随打印任务进行。当此开关上半部分（M）被按下，仓温净化器为手动模式，仓温净化器的运行与打印任务无关，将始终运行。



热风模式说明

按下按键-5 与按键-4，仓温净化器进入热风模式，该模式下仓室空气将被净化，且仓温净化器会将仓温加热后保持在设定温度（仅当仓温低于设定温度时才会开始加热）。*打印ABS、PA、PC、PET CF等工程耗材时，建议开启60°C仓温，以减小打印底面翘边、增强Z层间结合力。冬季打印PLA/PETG时，建议开启40°C/45°C仓温，以减小大尺寸零件的底面翘边。

旋钮调节角度



冷风模式说明

按下按键-5，并使按键-4 弹起，仓温净化器进入冷风模式，该模式下仓室空气将被净化，仓温不会被仓温净化器所提升。由于冷风加速了仓室内空气循环，有利于降低热床上方空气温度，提升模型散热效果。
*在夏季打印PLA、PETG、TPU等低温耗材时，推荐使用冷风净化。

耗材打印推荐仓温

40°C	45°C	60°C
PLA系列	PETG 系列	ABS系列 ASA系列 PA系列 PAHT系列 PC系列 PET 系列 PPA系列

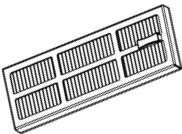
耗材烘干

- 对于常见的PLA、PETG、ABS等耗材，可以开启60°C仓温，并使用手动模式烘干耗材，一次最多可烘干4卷耗材。
注意:
1、烘干时间建议在8h以上，以充分达到烘干效果。
2、请勿让仓温净化器热风风口直吹耗材，以免耗材被吹变形影响后续打印。
3、耗材烘干后，需待耗材冷却到接近室温再装入密封容器。

5、配件获取与使用

仓温净化器装饰滤网

此配件可自行打印，如您不需要使用滤网过滤功能，可打印此配件替换原有H13 HEPA 滤网。



访问makerworld获取打印文件



6、问题诊断

拓竹P2S显示仓温差距较大

拓竹P2S打印机自带仓温读取，但由于P2S的温度传感器靠近打印机外壳。在内外温差较大时，仓温显示比实际偏低（设置仓温60°C，读取只有50°C左右），测量验证仓温请使用第三方测温设备，以免造成误解。
建议将工具头移动到机器中央，读取工具头热端的温度（需关闭热端加热）。此温度最接近实际打印区域仓温。

夏季仓温稍高于60°C

在炎热夏季使用时，即使不开启仓温，打印ABS等高温耗材时，仓温已经超过50°C。开启仓温60°C后，由于热床温度较高，热床水平线上局部区域温度可能会高于60°C，可以适当开启外排风扇来稳定仓温，亦可适当调低仓温设置。

关机后黄灯仍亮

仓温净化器M2内置防过温保护，在按下电源按键关机后，风扇仍然会保持吹冷风以降低加热器余温，大约180S后黄灯将会自行熄灭并停止运行。

活性炭滤盒有部分炭颗粒掉落

活性炭包装在运输过程中会有粉末产生，装入活性炭盒后需要先抖除粉末与细碎颗粒再使用，以免造成污染。
***粉末掉落不会导致仓温加热器损坏，请放心使用。**

打印机内不同位置温度不同

在打印ABS等工程耗材时，打印仓内不宜有较大气流直吹零件表面，否则会造成零件冷却过快而出现层间开裂、不粘热床等问题。在没有强气流作用下的打印机仓内，不同测量点的气温会有所不同，此为正常现象。

打印小件仓温未能自动启动

若打印零件较小，打印工具头的移动幅度也比较小，有可能不能激发红外运动检测传感器工作，打印小件时建议仓温加热开启手动模式，或同时打印多个小件以增加打印工具头运动幅度。

开启60°C仓温，打印工程耗材仍然翘边

- 打印时模型的翘边与很多因素有关，仓温是至关重要的一点。如开启高仓温后模型打印依旧翘边，请先将热床PEI板用洗洁精刷洗一遍（酒精擦拭无效），并用清水洗净后擦干，再继续使用打印任务。
- 建议搭配封闭式废料桶，以封闭废料口，稳定仓温。
- 请注意，过于廉价的工程耗材可能具有极大的收缩率，即便开启高仓温且PEI板具备强粘力，模型依然会有翘边与严重收缩，因此不建议使用此类耗材。

自动模式下，黄灯不熄灭

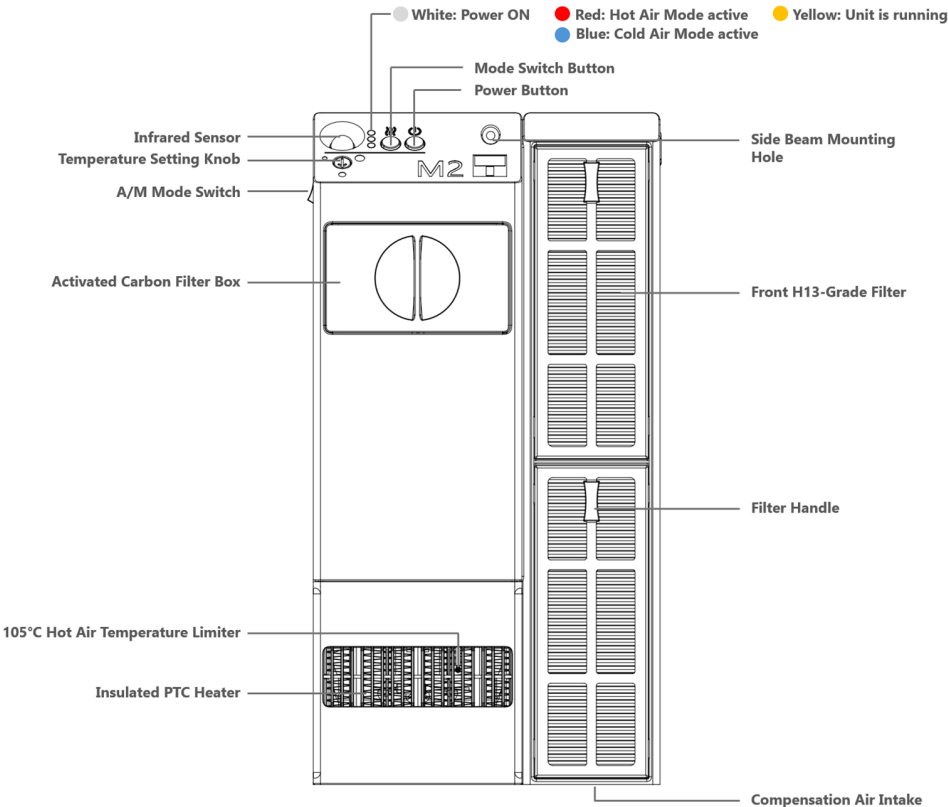
- 确认A/M（自动/手动）切换按键的下部分（A）被按下，此时为自动模式。
- 需关闭玻璃门，防止人体移动触发红外运动检测传感器工作，导致仓温净化器M2开始运行。
- 红外运动传感器未检测到运动物体时，仓温净化器M2的黄灯会在180S左右熄灭并停止运行，需等待180S后再透过玻璃门观察黄灯是否熄灭。
- 若满足以上3点，黄灯仍不熄灭，需联系售后解决。

Chamber Heater with Purifier M2

User Manual

Table of Contents

1. Important Safety Instructions
2. Specifications & Packaging List
3. Installation Guide
4. Operating Instructions
5. Accessory Information
6. Troubleshooting



1. Important Safety Instructions

Warning ⚠

- 1. Do not perform installation while the printer is powered on.** Always ensure the printer's power supply is completely disconnected before installing this product to prevent electric shock or personal injury.
- 2. Ensure correct wiring.** When connecting the product's power wires, verify the connections are correct. Match the wire colors (blue/brown) with the corresponding wire colors inside the printer.
- 3. Observe electrostatic discharge (ESD) precautions.** In dry conditions, discharge static electricity from your hands before installation to avoid damaging the product or the printer's internal electronic components.
- 4. Do not insert conductive, sharp objects into the hot air outlet.** This may cause damage to the product and poses a risk of electric shock.
- 5. Always install the activated carbon filter box during use.** This ensures the airflow path conforms to the design specifications for optimal performance.
- 6. Do not obstruct the hot air outlet or the front filter area.** Blocking airflow can lead to overheating and damage the product.

Caution

- 1. Initial Calibration:** On first power-up with the button pressed, the infrared motion sensor will calibrate; the unit may run for up to 180 s before entering standby.
- 2. Auto Mode:** The unit starts when movement is detected and stops about 180 s after motion ends. If heating is on, it will turn off earlier to dissipate residual heat.
- 3. Temperature Display (Bambu Lab P2 Series):** The built-in sensor is located near the printer shell and may read lower than actual chamber temperature. Verify with an external thermometer if accuracy is needed.
- 4. High Ambient Temperature:** In summer, chamber temperature may exceed 50°C even without active heating when printing ABS. If heating to 60°C, consider using the printer's exhaust fan to stabilize temperature.
- 5. Activated Carbon Preparation:** Shake out any loose powder from the carbon before use to avoid spreading particles inside the chamber.
- 6. Side Panel Behavior (P2S Printers):** At chamber temperatures above 50°C, the plastic side panels may warp slightly (bulge or dent). This is normal thermal expansion and does not affect function.
- 7. General Note on Heating:** Whether or not an active heater is installed, P2S printer side panels may deform at temperatures above 50°C. This is a material characteristic and not a malfunction.

2. Specifications & Packaging List

Specifications

Name: **MartilloTech** Chamber Heater with Purifier M2
Model: 220V Version / 110V Version
Input Voltage: AC 220V / AC 110V
Rated Power: 300W
Temperature Range: 40°C-60°C
Dimensions: 144mm*278mm*49mm
Net Weight: 620±10g

Packaging List

- ① Chamber Heater with Purifier M2
- ② Anti-vibration Silicone Gaskets
- ③ Gasket Fastening Screws
- ④ Heater Fastening Screws
- ⑤ High-Iodine Non-Acidic Activated Carbon
- ⑥ Spare Screws

3. Installation Guide

Pre-installation Notes

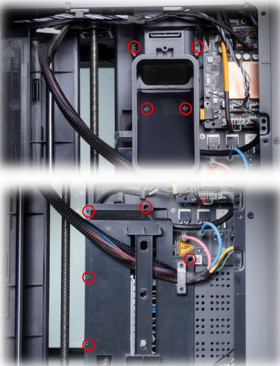
- Before installation, lower the heated bed to its lowest position, then power off the printer and remove the middle fixing screw from the left side panel of the P2S.
- Do not overtighten the fastening screws to avoid damaging the plastic screw posts.
- This product is powered by AC mains. During wiring, simply connect the wires by matching colors: blue wire to blue wire, and brown wire to brown wire.

Installation Steps

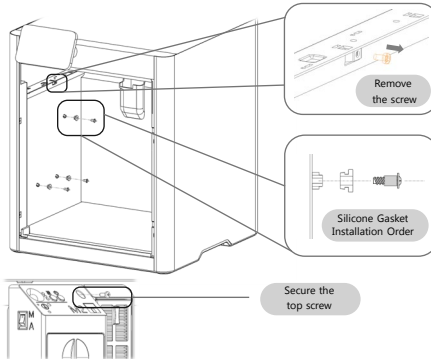
1. Remove the fixing screws from the printer's backplate, then detach the backplate.



2. Remove the 9 screws shown in the diagram to detach the waste chute and power supply cover.



3. Install the 3 Anti-vibration Silicone Gaskets, then then remove the 1 screw from the left fixing side panel of the P2S. Align the 3 mounting holes on the back of the Chamber Heater with Purifier M2 with the gaskets, insert them, and lift the unit upward to snap it securely into place. Once secured, fasten the top screws of the Chamber Heater with Purifier M2.

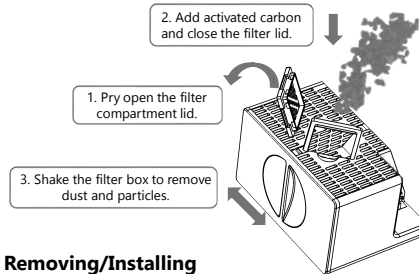


4. Thread the power cable of the Chamber Temperature Purifier M2 through the location shown in the diagram and secure it to the indicated 220V terminal block.

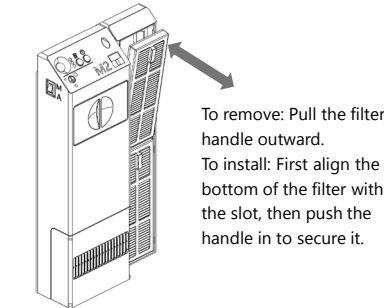


5. Reinstall the power cover, waste bucket, and printer backplate in reverse order.

Loading High-Iodine Activated Carbon



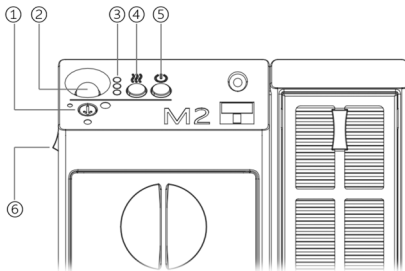
Removing/Installing the Front H13-Grade Filter



4. Operating Instructions

Control Panel Guide

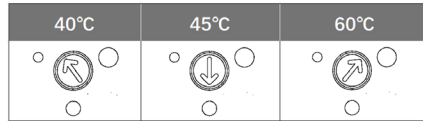
- ① Temperature Setting Knob:** Use a flat-head screwdriver to set the chamber temperature between 40°C and 60°C. Turn clockwise to decrease the temperature (min. 40°C). Turn counterclockwise to increase the temperature (max. 60°C).
Note: Do not apply excessive force to avoid damaging the knob.
- ② Infrared Sensor:** Detects toolhead movement to automatically start/stop the purifier in sync with your print job.
- ③ Indicator Lights:**
White: Power ON
Red: Hot Air Mode active
Blue: Cold Air Mode active
Yellow: Unit is running.
- ④ Mode Switch Button:**
Press down to activate Hot Air Mode (red light on). Release (pops up) to switch to Cold Air Mode (blue light on).
- ⑤ Power Button:** Press to turn the unit ON/OFF (white light).
- ⑥ A/M Mode Switch:**
A (Auto): Unit operates automatically based on print job detection.
M (Manual): Unit runs independently of print status.



Hot Air Mode

Press and hold Buttons 5 and 4 together to activate. Purifies chamber air and heats to the set temperature (heating only activates if temperature is below the set point).
Recommended Settings:
ABS / PA / PC / PET-CF: Set to 60°C to reduce warping and improve layer adhesion.
PLA / PETG in winter: Set to 40 / 45°C to minimize warping on large parts.

Temperature Adjustment



Cold Air Mode

Press Button 5 while Button 4 is released (pops up). Purifies air without heating; enhances air circulation to cool the area above the print bed.
Recommended Use: Printing PLA, PETG, TPU in summer or when additional cooling is desired.

Recommended Chamber Temperature for 3d Printing

40°C	45°C	60°C
PLA	PETG	ABS, ASA, PA, PAHT, PC, PET, PPA

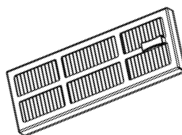
Filament Drying

You can use the purifier to dry common filaments like PLA, PETG, or ABS. Set the chamber to 60°C in Manual mode to dry up to 4 spools simultaneously.
Notes:
Drying time should exceed 8 hours for effective results. Avoid pointing the hot air outlet directly at the spools to prevent deformation.
Allow the filament to cool to near room temperature before sealing it in a storage container.

5. Accessory Information

Decorative Filter Panel for Chamber Purifier

This accessory can be 3D printed. If you do not require the filtration function, you can print and use it to replace the original H13 HEPA filter.



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6. Troubleshooting

P2S Chamber Temperature Display Inaccuracy

The Bambu Lab P2S printer has a built-in chamber temperature sensor located near the printer's outer shell. Due to its placement, the displayed temperature can read significantly lower than the actual internal temperature when a large difference exists (e.g., set to 60°C may display only ~50°C).
For an accurate measurement:
Use a third-party thermometer.
Alternatively, move the toolhead to the center of the chamber and read the hotend temperature (with its heater off).

Higher Chamber Temperatures in Summer

During hot summer months, the chamber temperature can naturally exceed 50°C when printing materials like ABS, even without active heating. When heating is set to 60°C, localized areas near the heated bed may become hotter.
Recommendation: To stabilize the chamber temperature, you can turn on the printer's exhaust fan or slightly lower the temperature setting.

Yellow Light Remains On After Shutdown

This is a normal safety feature. After pressing the power button to turn off the unit, the fan continues to run in cooling mode for approximately 180 seconds to dissipate residual heat from the heater. The yellow light will turn off automatically when this process is complete.

Charcoal Particles from Filter

Some charcoal dust or particles may be present due to shipping. Shake the filter box before use to remove them.
*This will not damage the heater.

Temperature Variations Inside the Chamber

When printing engineering materials like ABS, avoid direct airflow onto the part surface, as rapid cooling can cause layer separation or poor bed adhesion. Without strong airflow, temperature gradients naturally occur inside the chamber—this is normal.

Chamber Heater Not Starting with Small Parts

When printing small parts, the print head movement may be too limited to trigger the infrared motion sensor.
Recommendation: For small prints, either switch to Manual mode for the chamber heater, or print multiple parts simultaneously to increase toolhead movement.

Warping Persists Even at 60°C

If your model still warps with the chamber heated to 60°C, please follow these steps:
Clean the Print Bed: Wash the heated bed's PEI sheet with dish soap (alcohol is ineffective), rinse with water, and dry it thoroughly before printing again.
Seal the Waste Chute: Use an enclosed waste bin to close the chute opening, helping to stabilize the chamber temperature.
Check Your Filament: Extremely cheap engineering filaments may have high shrinkage rates, causing warping and severe contraction even with proper bed adhesion and chamber heating. It is not recommended to use such materials.

Yellow Light Stays On in Auto Mode

If the yellow indicator remains lit in Auto Mode, please check the following:
Confirm Mode: Ensure the A/M switch is set to "A" (Auto).
Close the Door: Close the glass door to prevent the infrared motion sensor from being triggered by movement outside the printer.
Wait for Timeout: If no motion is detected, the yellow light and unit operation will stop automatically after about 180 seconds. Please observe after this period.
If the above conditions are met and the light remains on, please contact customer support.