



MartilloTech

MartilloTech® 挤出机空调 Pro

产品使用说明书



⚠ 重要安全提示

警告 ⚠

- 1、严禁冷凝水过滤器瓶身满水继续使用本产品，**避免水满溢出损坏打印机零件。**
- 2、同时兼顾冷气与耗材输送的PTFE料管**严禁使用2*4mm规格，此将导致气路不通而损坏本产品内置气泵。**
- 3、严禁使用其他电压（12V DC之外）的电源适配器，否则有可能损坏本产品。
- 4、禁止伸入尖锐物品触碰本产品运转中的散热风扇扇叶，以免造成人身伤害与产品损坏。
- 5、如冷凝水不慎通过输气管进入打印机，需及时干燥挤出机齿轮与AMS缓冲器，以避免打印机零件损坏。
- 6、每次排空冷凝水后，应将冷凝水过滤器滤芯表面之水擦拭吸干，装回后开启输气，确认无冷凝水吹出后，再继续连接打印机使用本产品。
- 7、对于拓竹打印机，封箱打印常见PLA的不堵头极限仓温是45℃，搭配挤出机空调后，极限仓温为55℃。如需在高于55℃仓温打印PLA，请使用Polymaker品牌PLA，以最大限度减少PLA堵头。

注意

- 1、请注意将本产品放置于通风良好处，确保本产品的左右、以及顶部散热通风处30mm内无障碍物阻挡，以避免风路系统散热不佳而影响制冷效果。
- 2、请按照管路连接说明安装机器与管路，以免冷气无法正常送达打印机挤出机内部，影响使用效果。
- 3、请定期检查盛水容器是否水满，如水满需及时检查过滤器排水阀是否堵塞以及排空冷凝水。
- 4、请勿擅自拆装本产品，由此导致的零件与电路工作异常、制冷效果异常等人为损坏，不在保修范围之内。
- 5、本产品之冷凝水过滤器的输出管路未连接时，气流会因异常排放而产生尖锐噪音，此为正常现象，管路完全连接后即可恢复正常。
- 6、本产品之电源适配器在正常工作时会产生较高温度，请勿用障碍物遮盖电源适配器，以便于其散热。
- 7、打印ABS等异味耗材时，请注意健康防护并保证室内通风良好，避免吸入有害物质。
- 8、建议搭配温控插座使用本产品，以避免能源浪费与过早损耗本产品内置气泵。
- 9、请勿使用第三方热端组件。多数第三方热端组件的喉管散热部分工艺不佳，其散热性能不及拓竹原装热端组件，封箱打印堵头概率较高，且堵塞部分为热端喉管，若本产品无法解决该堵头现象，请换回拓竹原装热端再行尝试。
- 10、请勿使用其他组件（例如5通进料组件）代替包装内专用进气三通。否则冷气将会泄露，无法传输至挤出机内部。
- 12、如需使用其他3通、5通等多路耗材输入组件，请将该组件安装在AMS缓冲器的进料端，以确保不影响本产品的管路密封性能。

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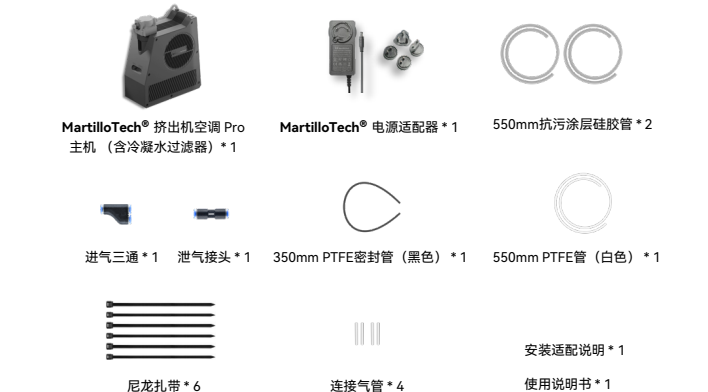
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- 2、产品介绍
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- 4、使用指南
- 5、问题诊断

1、基本参数&包装清单

基本参数

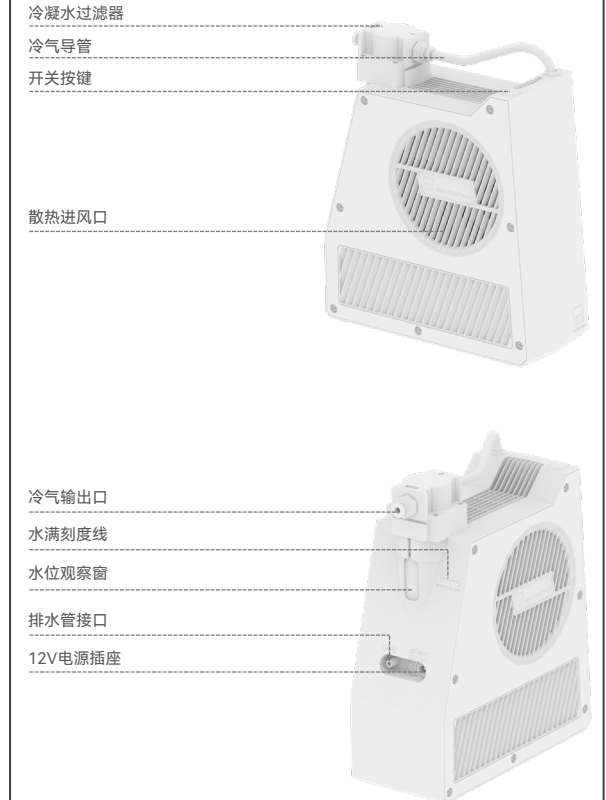
产品名称: **MartilloTech® 挤出机空调Pro**
产品型号: 中国大陆版/全球版
输入电压: AC 100V-240V
额定功率: 60W
输出气流量: 12L/min
主机尺寸: 174mm*208mm*74mm
主机净重: 1130±10g

包装清单

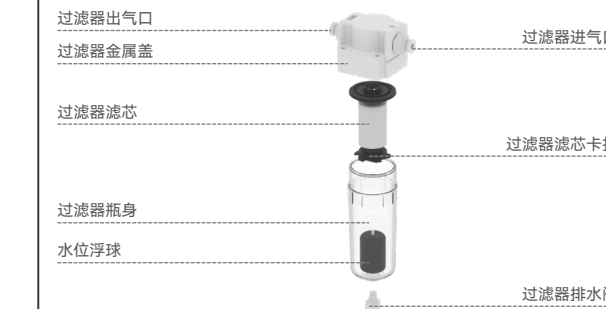


2、产品介绍

主机



冷凝水过滤器



电源适配器



按键灯光与提示音

当前状态	水满提示	过热提示	制冷异常	模式切换
灯光状态	慢闪	慢闪	快闪	呼吸/长亮
提示音	滴滴 (快速)	滴滴 (慢速)	无	滴 (长鸣)

说明书中的产品、配件等插图均为示意图，仅供参考。后续由于产品的更新与升级，产品实物与示意图可能略有差异，请以实物为准。

3、连接与安装

安装步骤请参考[安装适配说明]的图文指引。

4、使用指南

排水管连接

使用包装内的550mm硅胶管连接排水口，根据实际安装环境选择是否需要收集排出的冷凝水。

硅胶管（排水管）

注意：排水管出口高度需低于排水口高度，以确保排水通畅。

水满排查

检查冷凝水容器内的水位线是否到达机身指示的水满刻度线。

水位线应低于右侧箭头水位线

排水阀清洁

如水位达到水满刻度线，需排空冷凝水并清洁、疏通过滤器排水阀。

旋转拧下过滤器排水阀

不同机型参考【安装适配说明】。

快捷操作

- **短按** 短按按键，开启或停止工作。
- **长按** 长按按键5秒，切换默认模式和性能模式。

水满停机

当冷凝水容器内水位线到达机身的水满刻度线，主机将停止工作并发出提示音，以避免冷凝水向外喷出。

断电记忆功能

在断电后再次通电，产品将自动恢复为断电前工作状态。

更换冷凝水过滤器滤芯

拧下冷凝水过滤器水瓶，拔出冷凝水过滤器滤芯后，再拧下滤芯底部的锁紧卡扣即可取下滤芯替换。

旋转拧下滤芯卡扣

连接温控插座使用（此配件需自行购买）

建议搭配外置测温探头线的温控插座，来控制挤出机空调。由此可实现自动启停，以避免能源浪费与过早损耗本产品内置气泵。

将温控插座的测温线穿入打印机拖链（电线电缆保护拖链）固定，把温控探头固定在靠近工具头的拖链内即可。建议设置启动温度45℃，停止温度43℃。

不同机型参考【安装适配说明】。

5、问题诊断

指示灯快闪，无报警声

冷端温度异常提醒。
确保挤出机空调Pro的散热风扇进出风口气流顺畅，且环境温度低于45摄氏度。冷端温度恢复正常后将停止灯光闪烁提醒。

发出滴~滴双响提示音，且挤出机空调停止运行

冷凝水储水满警告。
请先排空冷凝水，并确保冷凝水的排水阀无堵塞后装回冷凝水过滤器。长按按键3秒解除警报，再次按下按键启动运行。

发出滴~滴双响提示音，挤出机空调正常运行

制冷组件热端过热。
确保挤出机空调Pro的散热风扇进出风口气流顺畅，且环境温度低于45摄氏度。制冷组件热端温度降低后将会自动停止报警。

其他报警声

若发生其他报警声，则为内部硬件故障，请联系售后解决。

已开启挤出机空调，打印依然堵头

- 1、本产品仅适用于拓竹系列打印机，其他品牌打印机暂不支持。
- 2、**请勿使用第三方热端组件。**多数第三方热端组件的喉管散热部分工艺不佳，其散热性能不及拓竹原装热端组件，封箱打印堵头概率较高，且堵塞部分为热端喉管，若本产品无法解决该堵头现象，请换回拓竹原装热端再行尝试。
- 3、请勿使用其他组件（例如拓竹5通组件）代替包装内专用进气三通。否则冷气将会泄露，无法传输至挤出机内部。
- 4、请确保管路连接严格按照使用说明书的方式安装。

启动按键按下不工作

- 1、请确认电源适配器的电源指示灯是否正常亮起。
- 2、请确认电源适配器的电压是否为12V。
- 3、若电源适配器指示灯正常，启动按键按下后按键灯不亮，请联系售后解决。

气管口不出气

请关闭本产品并在室温静置本产品30min，再尝试开启使用，如继续使用恢复正常，此产品亦可继续使用。此现象为制冷气路结冰导致，请联系售后处理。

过滤器输出带有水珠

正常运行时过滤器的输出不带水珠。如发现过滤器输出带有水珠，请排空冷凝水，拆下过滤器滤芯，将滤芯与过滤器清洗并晾干后再组装使用，如过滤器继续输出带有水珠，请联系售后处理。

高低温耗材混打，换料时提示进料失败

- 1、尝试重新安装PTFE管，排除PTFE管的安装问题。
- 2、请确定仓温低于55℃，挤出机空调的防堵头上限仓温为55℃，如需高仓温环境使用PLA作为支撑材料，请使用Polymaker品牌PLA耗材。

6、售后服务期限

本产品提供有限期限质保服务，在以下质保期限内，本公司免费提供质保服务。超出质保期限，本公司可提供有偿维修服务。

类别	主机	电源适配器	冷凝水过滤器	输气泵
保修期限	1年	2年	3个月	3个月

特别声明

上述保修服务仅适用于在中国大陆地区（中国香港、澳门、台湾地区除外）销售的MartilloTech产品。经销商向您做出的非MartilloTech保证的其他承诺，MartilloTech不承担任何责任。
对在非中国大陆地区（中国香港、澳门、台湾地区除外）销售的MartilloTech产品，MartilloTech仅提供向您指定的中国大陆地区（中国香港、澳门、台湾地区除外）地址邮寄维修替换零件以供您自行维修，不提供其他售后承诺。

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MartilloTech® Extruder Cooler Pro

Product User Manual



Important Safety Instructions

Warning

- Do not continue using this product when the condensate filter water bottle is full, to prevent water from overflowing and damaging printer parts.
- For the PTFE tube that conveys both cold air and filament, the 2*4 mm size is strictly prohibited. Using this size will obstruct the air path and damage the product's built-in air pump.
- Do not use a power adapter with a voltage other than 12V DC, as this may damage the product.
- Do not insert any sharp objects into the blades of the product's running cooling fan, to avoid personal injury and product damage.
- If condensate accidentally enters the printer through the air hose, promptly dry the extruder gears and AMS buffer to prevent damage to printer parts.
- After emptying the condensate each time, wipe the surface of the condensate filter element dry. After reinstalling it, turn on the air flow and confirm that no condensate is blown out before reconnecting the printer and continuing to use the product.
- For Bambu Lab printers, the maximum chamber temperature for printing common PLA without clogging in an enclosed printer is 45°C. When paired with the Extruder Cooler, the maximum chamber temperature becomes 55°C. If you need to print PLA at chamber temperatures above 55°C, please use Polymaker brand PLA to minimize the risk of nozzle clogging.

Caution

- Please place this product in a well-ventilated area. Ensure that there are no obstacles within 30mm of the left, right, and top ventilation openings to prevent poor heat dissipation from affecting cooling performance.
- Please install the machine and tubing according to the tubing connection instructions, to ensure that cold air can be properly delivered into the printer's extruder and avoid affecting performance.
- Regularly check whether the water container is full. If it is full, promptly check whether the drain outlet is blocked and empty the condensate water.
- Do not disassemble this product without authorization. Any resulting human-caused damage, such as abnormal operation of parts and circuits or abnormal cooling performance, is not covered by the warranty.
- When the output tubing of the condensate filter is not connected, the airflow may produce a sharp noise due to abnormal discharge. This is normal, and the noise will subside once the tubing is fully connected.
- The power adapter for this product may become hot during normal operation. Do not cover the power adapter with any objects to facilitate heat dissipation.
- When printing with odorous filaments such as ABS, please take health precautions and ensure good indoor ventilation to avoid inhaling harmful substances.
- It is recommended to use this product with a temperature-controlled socket to avoid energy waste and premature wear of the product's built-in air pump.
- Do not use third-party hotend assemblies. The heat break cooling section on most third-party hotends is poorly manufactured, with heat dissipation performance inferior to that of genuine Bambu Lab hotend assemblies. This leads to a higher probability of clogging during enclosed printing, with the clog occurring in the heat break. If this product cannot resolve such clogging, please switch back to the original Bambu Lab hotend and try again.
- Do not use other components (such as a 5-way filament feed component) to replace the dedicated air intake T-connector included in the package. Otherwise, cold air will leak and cannot be delivered into the extruder.
- If you need to use other multi-filament input components such as 3-way or 5-way splitters, please install them on the filament inlet side of the AMS buffer to ensure the sealing performance of this product's tubing is not affected.

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1. Specifications & Package Contents

Specifications

Product Name: MartilloTech® Extruder Cooler Pro
Product Model: Mainland China Version / Global Version
Input Voltage: AC 100V~240V
Rated Power: 60 W
Air Flow Output: 12 L/min
Main Unit Dimensions: 174 mm × 208 mm × 74 mm
Main Unit Net Weight: 1130 ± 10 g

Package Contents



MartilloTech® Extruder Cooler Pro
Main Unit (with condensate filter) × 1



MartilloTech® Power Adapter × 1



550 mm Anti-stain Coated
Silicone Tube × 2



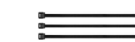
Air Intake T-Connector × 1
Air Release Connector × 1



350 mm PTFE Sealed Tube (Black) × 1



550 mm PTFE Tube (White) × 1



Nylon Cable Ties × 6



Air Connection Tubing × 4



Installation & Adapter Instructions × 1



User Manual × 1

2. Product Introduction

Main Unit

Condensate Filter

Cold Air Duct

Power Switch

Cooling Air Intake

Cold Air Outlet

Full Water Line

Water Level Window

Drain Tube Connector

12V Power Socket

Condensate Filter

Filter Air Outlet

Filter Metal Cap

Filter Element

Filter Bottle Body

Water Level Float

Filter Air Intake

Filter Element Clip

Filter Drain Valve

Power Adapter

AC Plug Dock

DC 12V Output Plug

AC AU Plug

AC CN/US Plug

AC UK Plug

AC EU Plug

*Mainland China version includes only the AC CN/US plug.

Button Light and Audible Alert

Current Status Water Full Alert Overheat Alert Cooling Abnormality Mode Switch

Light Status Slow Flash Slow Flash Fast Flash Breathing / Steady On

Audible Alert Beep (Fast) Beep (Slow) None Beep (Continuous)

The illustrations of the product, accessories, etc. in this manual are schematic diagrams and are for reference only. Due to subsequent product updates and upgrades, the actual product may differ slightly from the illustrations. Please refer to the actual product.

3. Connection and Installation

For installation steps, please refer to the illustrated guide in [Installation & Adapter Instructions].

4. User Guide

Connecting the Drain Tube

Use the 550 mm silicone tube included in the package to connect to the drain outlet. Depending on the actual installation environment, decide whether to collect the discharged condensate.

Silicone Tube (Drain Tube)

CAUTION: The drain tube outlet must be positioned lower than the drain outlet height to ensure smooth drainage.

Power-off Memory Function

When power is restored after a power outage, the product will automatically resume the working state it was in before the outage.

Checking for Full Water

Check whether the water level inside the condensate container has reached the full water line indicated on the unit body.

The water level should be below the water level line indicated by the right arrow.

Cleaning the Drain Valve

If the water level reaches the full water line, empty the condensate and clean/unclog the filter drain valve.

Unscrew and remove the filter drain valve.

Quick Operations

- Short Press:** Short press the button to start or stop operation.
- Long Press:** Long press the button for 5 seconds to switch between Default Mode and Performance Mode.

Water Full Shutdown

When the water level in the condensate container reaches the full water line on the unit, the main unit will stop working and emit an audible alert to prevent condensate from being sprayed outward.

Replacing the Condensate Filter Element

Unscrew the condensate filter water bottle, pull out the condensate filter element, then unscrew the locking clip at the bottom of the element to remove and replace the filter.

Unscrew the filter element clip by rotating it.

Using with a Temperature-Controlled Socket (This accessory is sold separately.)

It is recommended to use a temperature-controlled socket with an external temperature probe cable to control the Extruder Cooler. This enables automatic start and stop, helping to avoid energy waste and premature wear of the product's built-in air pump.

Route the temperature sensing wire of the temperature-controlled socket through the printer's cable drag chain (cable protection chain) and secure it. Fix the temperature probe inside the drag chain near the toolhead.

Recommended settings: Start temperature 45°C, Stop temperature 43°C.

For different printer models, refer to the [Installation & Adapter Instructions].

5. Troubleshooting

Indicator Light Flashes Rapidly, No Alarm Sound

Cold end temperature abnormality alert.
Ensure that the airflow at the cooling fan intake and exhaust of the Extruder Cooler Pro is unobstructed, and that the ambient temperature is below 45°C. The light will stop flashing once the cold end temperature returns to normal.

Double Beep Audible Alert, and the Extruder Cooler Stops Running

Condensate water full warning.
First, empty the condensate water, and ensure that the filter drain valve is not clogged before reinstalling the condensate filter. Press and hold the button for 3 seconds to clear the alarm, then press the button again to start operation.

Double Beep Audible Alert, but the Extruder Cooler Continues Running

Refrigeration unit hot end overheating.
Ensure that the airflow at the cooling fan intake and exhaust of the Extruder Cooler Pro is unobstructed, and that the ambient temperature is below 45°C. The alarm will stop automatically once the hot end temperature of the refrigeration unit drops.

Other Alarm Sounds

If other alarm sounds occur, there is an internal hardware fault. Please contact after-sales service for resolution.

Printing Still Clogs Even When the Extruder Cooler Is On

- This product is only compatible with Bambu Lab series printers. Other printer brands are not currently supported.
- Do not use third-party hotend assemblies.** The heat break cooling section on most third-party hotends is poorly manufactured, with heat dissipation performance inferior to that of genuine Bambu Lab hotend assemblies. This leads to a higher probability of clogging during enclosed printing, with the clog occurring in the heat break. If this product cannot resolve such clogging, please switch back to the original Bambu Lab hotend and try again.
- Do not use other components (such as a Bambu Lab 5-way component) to replace the dedicated air intake T-connector included in the package. Otherwise, cold air will leak and cannot be delivered into the extruder.
- Ensure that the tubing connections are installed strictly according to the instructions in the user manual.

Power Button Pressed but Product Does Not Work

- Check whether the power indicator light on the power adapter is normally illuminated.
- Check whether the voltage of the power adapter is 12V.
- If the power adapter indicator light is normal but the button light does not turn on after pressing the power button, please contact after-sales service for resolution.

No Air Output from the Air Tube Port

Turn off the product and let it sit at room temperature for 30 minutes before trying to use it again. If normal operation resumes after this, the product can continue to be used. This phenomenon is caused by icing in the refrigeration air circuit. Please contact after-sales service for further assistance.

Water Droplets in Filter Output

During normal operation, the filter output should be free of water droplets. If water droplets are observed at the filter output, please drain the condensate water, remove the filter element, clean both the element and the filter, dry them thoroughly before reassembling for use. If water droplets continue to appear at the filter output, please contact after-sales service.

Filament Loading Failure When Printing with Mixed High and Low Temperature Filaments

- Try reinstalling the PTFE tube to rule out any PTFE tube installation issues.
- Please ensure the chamber temperature is below 55°C. The maximum chamber temperature for clog prevention with the Extruder Cooler is 55°C. If PLA must be used as a support material in a high chamber temperature environment, please use Polymaker brand PLA filament.

6. Warranty Period

This product comes with a limited warranty. Within the following warranty periods, the company provides free warranty service. Beyond the warranty period, the company can provide paid repair services.

Category	Main Unit	Power Adapter	Condensate Filter	Air Pump
Warranty Period	1 Year	2 Years	3 Months	3 Months

Special Statement

The above warranty service is only applicable to MartilloTech products sold in mainland China (excluding Hong Kong, Macau, and Taiwan regions of China). MartilloTech assumes no responsibility for any other commitments made by dealers that are not offered by MartilloTech.

For MartilloTech products sold outside mainland China (excluding Hong Kong, Macau, and Taiwan regions of China), MartilloTech only provides mailing of repair replacement parts to the address you specify within mainland China (excluding Hong Kong, Macau, and Taiwan regions of China) for self-repair, and does not provide any other after-sales commitments.

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