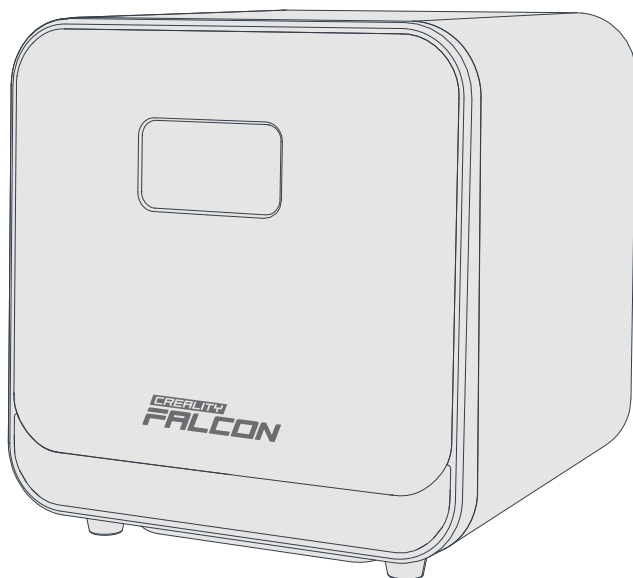




智能空气净化器 INTELLIGENT AIR PURIFIER



用户使用手册
User Manual

尊敬的用户:

感谢您选择Creality Falcon的产品。在这个旅途中，我们期待您创造出无限可能的作品。可以在Facebook,Tiktok,Instagram等社交媒体搜索Falcon Laser进行关注，在其中可分享您的作品并从他人那里获得灵感。

Creality Falcon团队时刻准备为您提供优质的服务。如在使用过程中您遇到问题，请参照产品说明书中所提供的电话、邮箱与我们进行联系。为了能够更好地体验我们的产品，您可以从维基百科(wiki.creality.com/zh/laser-engraver)中获取相关使用说明及视频。或登录Creality Falcon官方商城(www.crealityfalcon.com) 寻找相关软硬件、联系方式、设备操作、设备保养等信息。

Dear User,

Thank you for choosing Creality Falcon's product. On this journey, we look forward to you creating works of unlimited possibilities. You can follow Falcon Laser on social media platforms such as Facebook, TikTok, and Instagram, where you can share your works and gain inspiration from others.

The Creality Falcon team is always ready to provide you with quality service. If you encounter any problems during use, please contact us using the phone number and email provided in the product manual. To better experience our products, you can obtain relevant instructions and videos from Wikipedia (wiki.creality.com/en/laser-engraver). Or visit the official Creality Falcon store (www.crealityfalcon.com) to find information on related hardware and software, contact methods, equipment operation, equipment maintenance, etc.

售后服务 / After-sales Service

Email: support@crealityfalcon.com

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1/Product Overview

- 1.This product is suitable for applications that generate smoke, odor, and dust, such as laser engraving.
- 2.With its multi-stage filtration design and powerful suction, it effectively captures and purifies various particulate matter and gaseous pollutants produced during laser engraving. The purified air can be directly discharged indoors.
- 3.You can search and download the 'FalconDesian Space App on Google Play or the App Store to provide networking capabilities and remote monitoring for the purifier.
- 4.This product can be paired with specified Falcon laser engravers (such as Falcon T1/Falcon A1mini/Falcon A1 Pro/Falcon T1mini) via WiFi. After selecting auto mode, it can synchronize with the engraving tasks and automatically execute power-on and delayed shutdown of purification.

2/ Precautions

- 1.The machine's power input must be used within the specified rated voltage range (refer to the power label on the machine). Do not operate the machine if the voltage is too high or too low. If unstable voltage is detected, turn off the machine, unplug the power cord, and only resume use once the voltage stabilizes.
- 2.During operation, the ambient temperature of gases and dust drawn into the air intake must be within the range of -20°C to 50°C. Do not use the machine above or below this temperature range.
- 3.During operation, the humidity of gases and dust drawn into the air intake must not exceed 80%. Excessive humidity will quickly degrade the filter and damage the internal circuitry. Do not use machines in environments with humidity above 80%.
- 4.Never operate the machine without the filter installed. Directly inhaling oil fumes or dust particles can damage the fan and control system. Failures caused by such misuse will require paid repairs and may result in greater losses.
- 5.Do not continue using the machine if the filter is severely clogged, as this will significantly shorten its lifespan or even cause permanent damage. Regularly clean and maintain the machine, and replace the filter as needed to ensure optimal performance.
- 6.If suction power decreases due to a clogged filter or if the odor-removing filter fails to eliminate smells, replace it with an original manufacturer-approved filter.
- 7.Unauthorized disassembly or internal repairs of the machine are strictly prohibited.

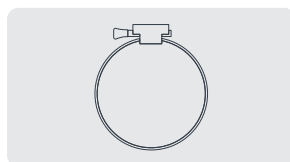
3/ Packing List



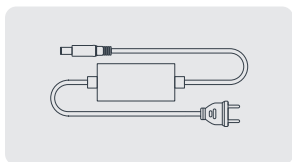
① Main unit *1



② Filter (Inside the machine) *1



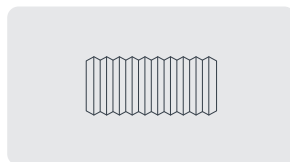
③ Hand-Tightened Hose Clamps *2



④ power adapter *1



⑤ Duct Connector *1



⑥ Exhaust Pipe *1



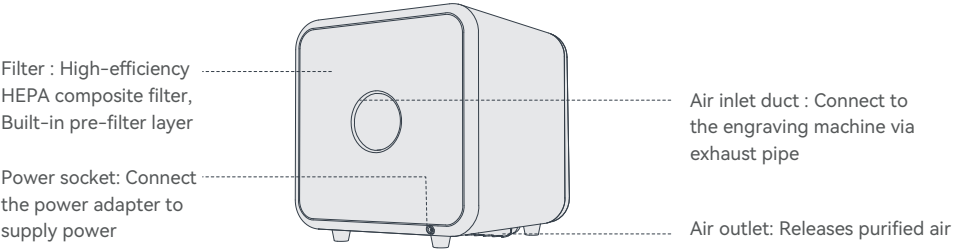
⑦ User Manua *1

*After removing the machine from the packaging box, please carefully check whether any of the above accessories are missing or damaged. If you find any missing or damaged items, please contact our sales customer service.

4/ Specifications

Product Name	Intelligent Air Purifier
Product Model	Falcon AP1 mini
Product Dimensions	280*270*285mm
Net Weight	4.5kg
Package Dimensions	425*360*380mm
Gross Weight	7.3kg
Air Inlet Duct Size	65mm
Input Voltage	110/230V
Output Voltage	DC 24.0V
Maximum Power	55W
Operating Noise	≤56±2 (Translation at 1 meter from the machine)
Maximum Airflow Rate	174m³/h
Operating Temperature	-20~50°C
Safety Certifications	CE, RoHS, FCC
Filter Configuration	High-efficiency HEPA composite filter

5/ Product Description



PM2.5

TVOC

Power Button

Fan Button

1. Fan Speed and Mode Switch: Can be switched between Speed 1 - Speed 2 -Speed 3 - Auto mode. The auto mode is only selectable when connected to the laser engraver.

2. Filter Reset Function: While the purifier is working, long press for 5 seconds to reset the filter life.

Power Button

1. Power On/Off Function: Start/stop the operation.

2.Network Configuration Function: Long press for 5 seconds to initiate device network setup

Note: Press and hold both the power button and the fan speed button simultaneously to reset the air purifier.

Flashing: The purifier enters the network configuration state.

Steady: The purifier is connected to the network normally.

Constantly lit when entering 'auto' mode, synchronizing start/stop with the engraving machine task.

Filter failure: Please replace the filter promptly to achieve effective purification.

PM2.5

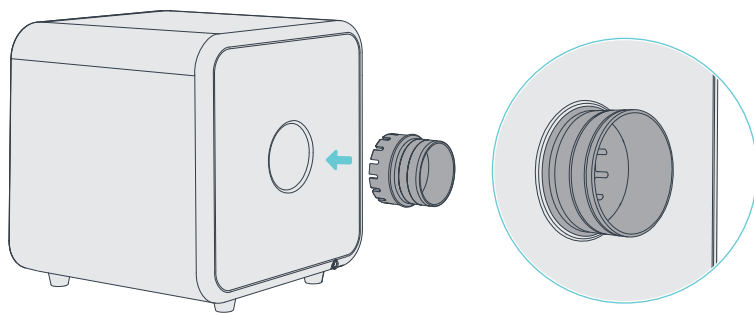
PM2.5 concentration range: Displays three levels of PM2.5 concentration, automatically switching between levels in real time based on the detected concentration.

TVOC

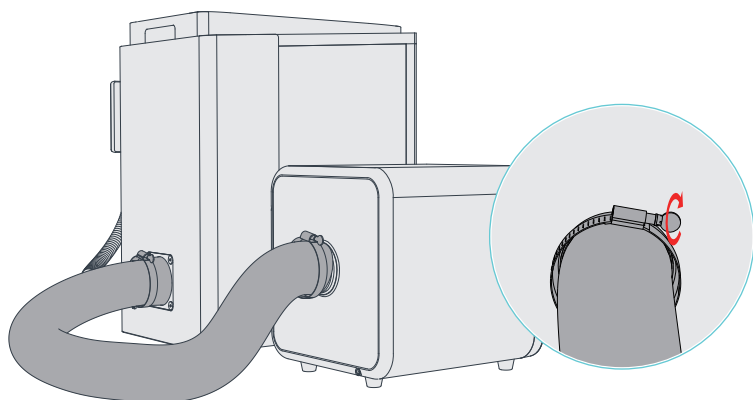
TVOC Concentration Range: Displays the TVOC concentration level, which switches in real-time according to the detected concentration range.

6/ User Guide

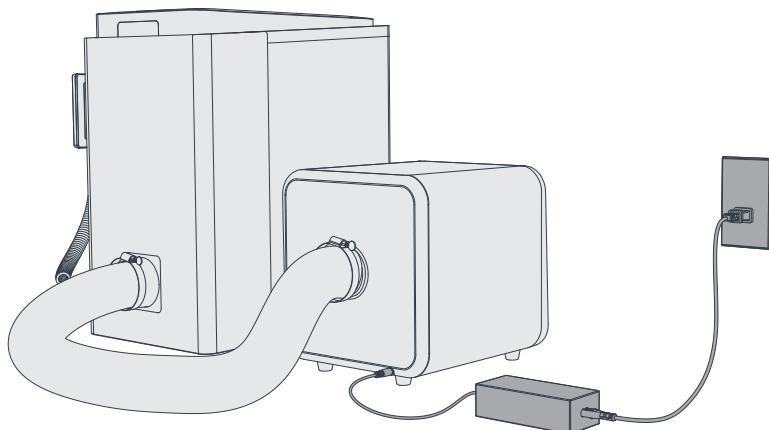
6.1 After unboxing, place the unit on a stable surface, install the duct connector



6.2 Connect one end of the exhaust pipe to the purifier and the other end to the engraving machine, then tighten the clamps.



6.3 Connect to power.



6.4 Search and download the 'FalconDesignSpace' App on Google Play or the App Store.

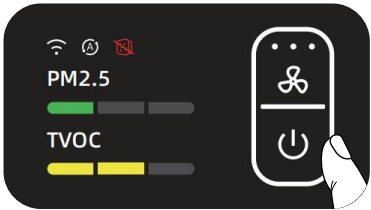


FalconDesignSpace' App

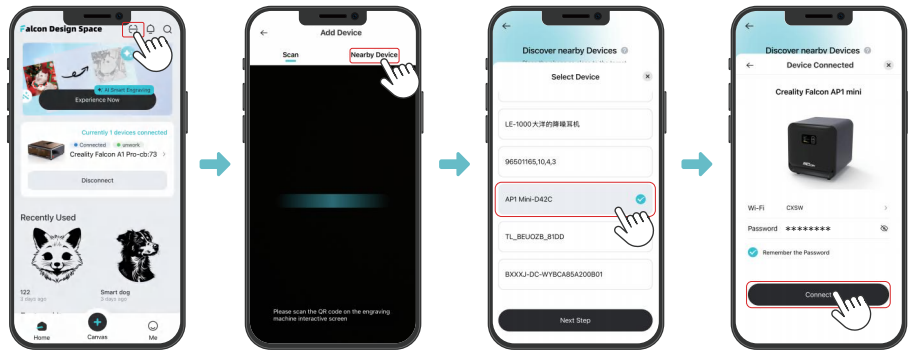


Scan the QR code to download
FalconDesignSpace' App

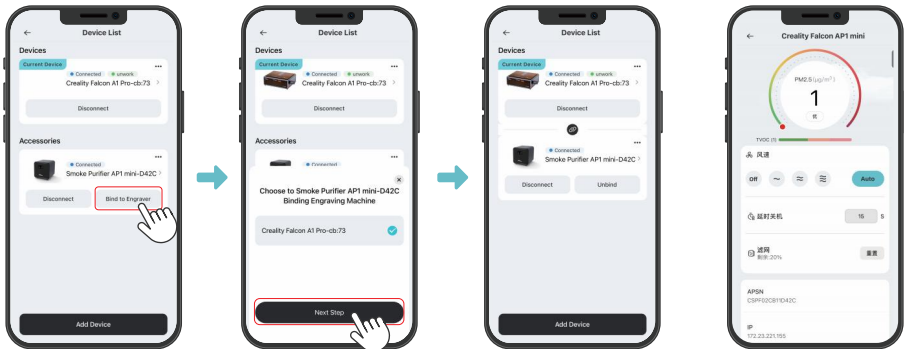
6.5 Long press the purifier's 'power button' for 5 seconds to activate the device's networking function; the WiFi icon will flash during this process.



6.6 Turn on the Bluetooth and Wi-Fi functions on your phone, within the 'FalconDesignSpace' App, select 'Connect Device', search for and select the name of the purifier, then select and enter the WiFi password to complete the network connection. The WiFi icon on the purifier is always on.



6.7 If your app account has been connected to a laser engraver before, you can choose to bind the purifier, after which the purifier will synchronously start and stop with the processing tasks of that engraver. (This function supports Falcon T1, Falcon A1 Pro, Falcon T1 mini, Falcon A1 mini)



7 / Filter Replacement Guide

7.1 Replace the filter when any of the following conditions occur

Device Status 1: When the filter cartridge absorbs a large amount of pollutants, it will increase air resistance. When the air resistance reaches a certain level, the filter cartridge fails, and a filter failure icon will appear on the App and display screen. Each time you turn on the machine, there will be a reminder of filter failure, and you need to replace the filter cartridge.

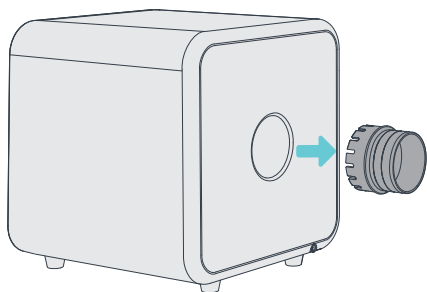
Device Status 2: The system remains operational but with significantly reduced airflow and suction power

Cause: Likely caused by either intake vent blockage or filter saturation leading to clogging

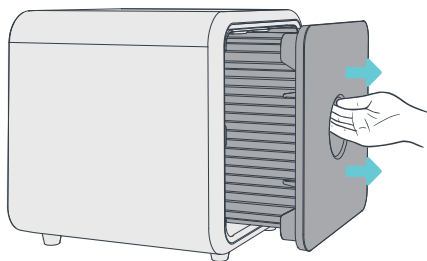
Check for foreign objects blocking the air intake, then inspect the exhaust outlet for obstructions. If no issues are found after inspection/treatment but airflow remains weak, replace the filter.

7.2 Filter Replacement Procedure

① Removing the duct connector



② Pull out the filter and insert a new one. (Note: The filter is properly installed when it is flush with the chassis)



7.3 Filter Usage Notes

- ① Do not operate the purifier without the filters installed.
- ② Do not wash the filters with water—replace them entirely when needed.
- ③ Always disconnect the power before replacing or servicing the filtration system.
- ④ Only use original manufacturer-provided filters to avoid potential machine malfunctions.

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7. 滤芯更换说明	11

1/ 产品概览

- 1.本产品适用于产生烟雾、异味、粉尘的应用场景，如激光雕刻。
- 2.凭借多重过滤设计和强劲吸力，可有效吸附和净化激光雕刻时产生的各种颗粒物和气态污染物，净化后的空气可直接在室内排放。
- 3.您可以通过Google Play或App store应用商店搜索并下载 'FalconDesignSpace' App为净化器提供联网功能并远程监控设备。
- 4.本产品可通过WiFi与指定的Falcon激光雕刻机绑定(如Falcon T1/Falcon A1mini/Falcon A1 Pro/Falcon T1mini等)，选择auto模式后，可同步雕刻机的加工任务，自动执行开启和延迟关闭净化。

2/ 注意事项

1. 机器的电源输入应在规定的额定电压范围内使用（以机身上的功率标识为准），严禁电压过高或过低时使用。发现使用环境电压不稳定时请关闭机器并拔掉设备的电源插头，待电压稳定后再使用。
2. 使用机器时，进风口吸入的气体、粉尘的环境温度范围为：-20 至50 ℃，禁止高于或低于此温度范围使用。
3. 使用机器时，进风口吸入的气体、粉尘的湿度不应高于80%，湿度过高会使滤芯很快失效及机器内部电路损坏，禁止湿度高于80%的环境使用。
4. 严禁在没有放置过滤芯的状态下使用机器，直接吸进机器的油烟或粉尘颗粒物会造成风机及控制系统的损坏。以上状态下使用 机器造成的故障需自费维修，会造成您更大的损失。
5. 严禁滤芯严重堵塞后仍继续使用机器，会大大缩短机器的使用寿命，甚至会造成机器损坏。应定期清理及维护机器，定期更换 滤芯，以保证机器在良好的状态下工作。
6. 当您的机器滤芯堵塞吸力变小或除异味过滤芯失效不能去除异味时，请您更换原厂配置的滤芯。
7. 严禁私自打开机器内部进行维修。

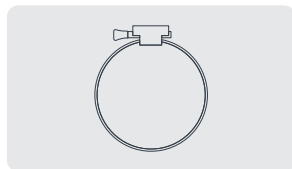
3/ 装箱清单



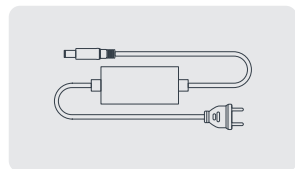
① 主机 *1



② 复合滤芯 *1



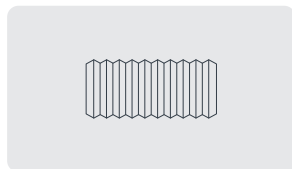
③ 手扭卡箍 *2



④ 电源适配器 *1



⑤ 连接管 *1



⑥ 排气管 *1



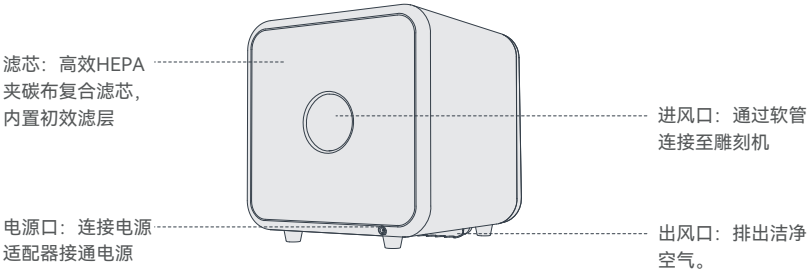
⑦ 用户使用手册 *1

*打开包装箱取出机器后，请仔细检查以上附件是否缺少或损坏，若发现有任何一项缺少或损坏，请与销售客服联系。

4/ 产品参数

产品名称	智能空气净化器
产品型号	Falcon AP1 mini
产品尺寸	280*270*285mm
净重	4.5kg
包装尺寸	425*360*380mm
毛重	7.3kg
进风接口尺寸	65mm
输入电压	110/230V
输出电压	DC 24.0V
最大功率	55W
噪音	≤56±2（离机器1m处）
最大系统风量	174m³/h
工作温度	-20~50℃
安规认证	CE, RoHS, FCC
滤芯配置	高效HEPA夹碳布复合滤芯

5/ 产品说明



PM2.5

TVOC

风速按键/Fan Button

1. 风速与模式切换：可在1档-2档-3档-auto模式之间切换，auto模式仅在连接激光雕刻机时可选；
2. 滤芯重置功能：长按5秒可重置滤芯寿命。

开关按键

1. 开关功能：可启动/停止运行
2. 配网功能：长按5秒，可触发设备配网功能

注：同时长按电源及风速按键即可重置空气净化器

闪烁时，净化器进入配网状态；
常亮，净化器正常联网。

常亮时进入‘auto’模式，与雕刻机加工
任务同步启停。

滤芯失效图标：滤芯失效：请您及时
更换滤芯，以获得有效的净化效果。

PM2.5

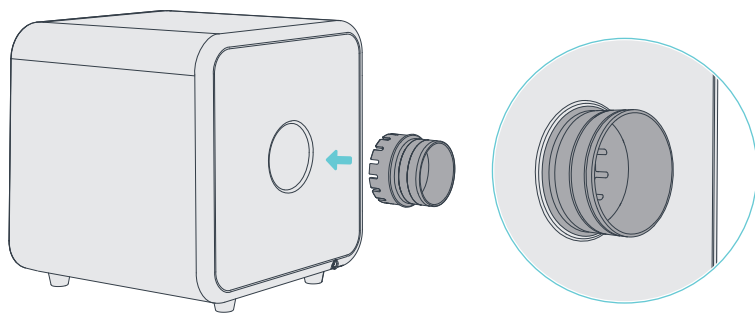
PM2.5浓度范围：显示PM2.5浓度三挡位（一档：），根据检测到的浓度所在挡位实时切换挡位。

TVOC

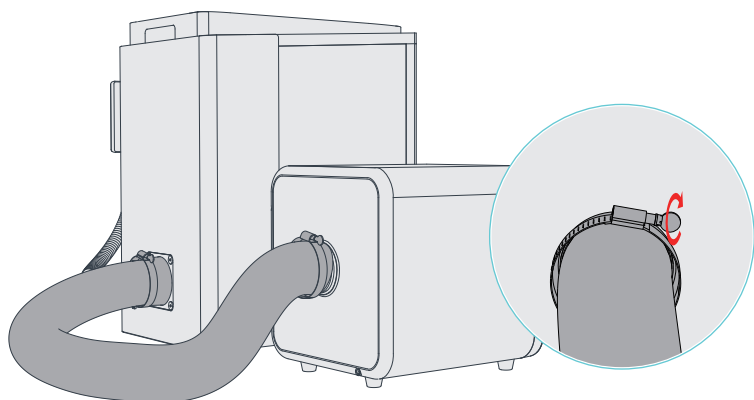
TVOC浓度范围：显示TVOC浓度挡位，根据检测到的浓度所在挡位实时切换挡位。

6/ 安装指引

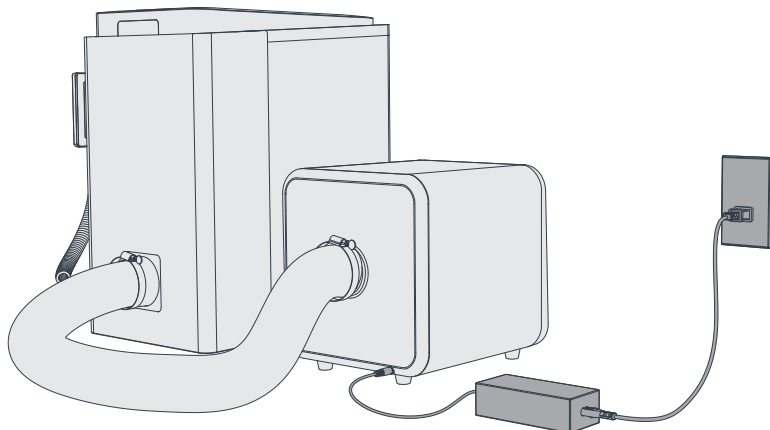
6.1 拆除包装后，将机器放置在平稳的桌面或地面上，装上转接管；



6.2 将排气管一头连接至净化器，另一头连接至雕刻机并拧紧卡箍；



6.3 接通电源。



6.4 在Google Play或App Store应用商店搜索并下载 ‘FalconDesignSpace’ App手机应用程序;



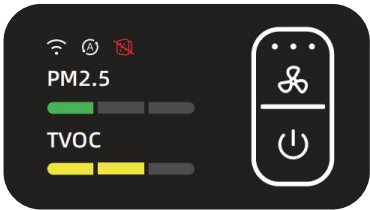
‘FalconDesignSpace’ App



扫码下载

‘FalconDesignSpace’ App

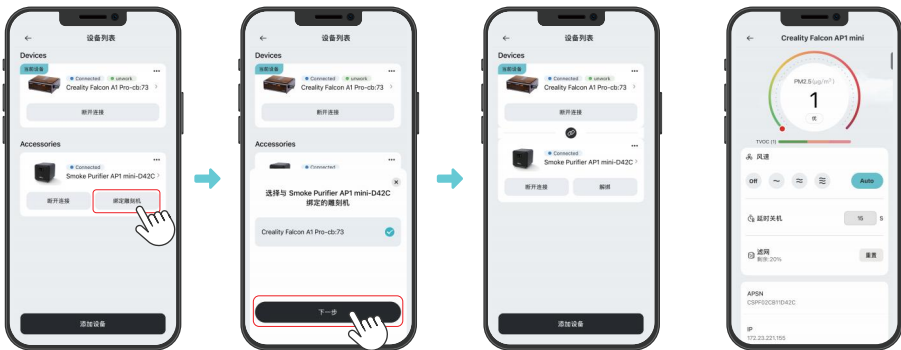
6.5 长按净化器的开关按键5秒，触发设备上网功能，此时WiFi图标闪烁;



6.6 打开手机蓝牙与WIFI功能后，在‘FalconDesignSpace’ App内选择‘扫一扫’，查找并选择净化器名称，随后选择并输入WiFi密码，即可完成配网，此时净化器上的WiFi图标常亮。



6.7 如您的App账户已连接过激光雕刻机，您可选择绑定净化器，随后净化器将与该雕刻机的加工任务同步启停。(此功能支持Falcon T1、Falcon A1 Pro、Falcon T1 mini、Falcon A1 mini)



7 / 滤芯更换说明

7.1 当出现以下几种情况时，请依据具体情况更换滤芯

设备状态一：当滤芯吸附了大量污染物后，会增加风阻，当风阻达到一定程度时，滤芯失效，在App、显示屏上会出现滤芯失效图标，每次开机会有滤芯失效的提醒，您需要同时更换滤芯。

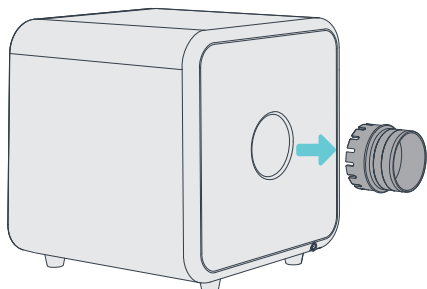
设备状态二：系统仍然工作，但风量微弱，吸入力大幅降低。

原因：进风口堵塞或滤筒达到饱和失效而形成堵塞。

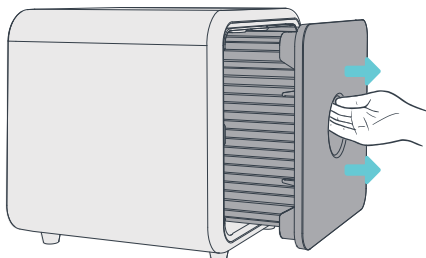
处理：检查是否有异物堵塞进风口；再检查出风口是否堵塞。若检查、处理无异样后，重新开机如果还是风量小，则需更换滤芯。

7.2 滤芯更换步骤

① 拔下连接管



② 抽出滤芯,并插入新的滤芯;(注意:滤芯齐平机箱为装好状态)



7.3 滤芯使用注意

- ① 不可不放置滤芯使用；
- ② 不可水洗滤芯，需整体更换；
- ③ 在更换和维护过滤系统之前,请务必先切断电源；
- ④ 须使用原厂提供的滤芯，否则可能造成机器故障。



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Room 1205, JinXiuHongDu Building, Meilong Blvd., Longhua Dist., Shenzhen, China 518131

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Warning: changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment

Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.