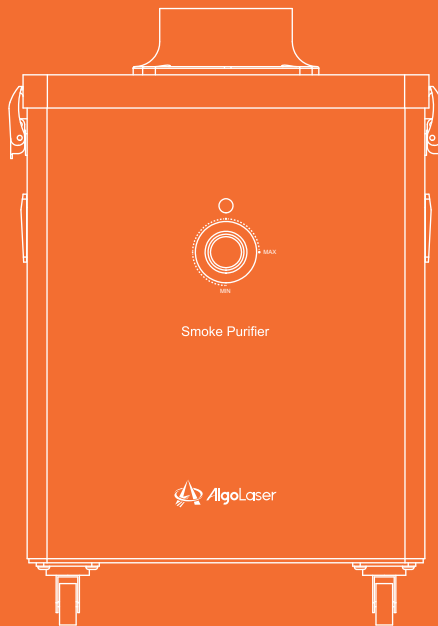


AlgoLaser **Smoke Purifier**

QUICK START GUIDE

Smoke Purifier



Always read the instructions before you start.

ENGRAVING HAPPINESS

Thanks for choosing AlgoLaser!

We are so glad that you give it a home.

We have packed everything into the neatest form, utilizing laser engraving machines, to help you enjoy engraving, achieve the greatest yield, and realize your dream.



The Founder of AlgoLaser

Aftersale Policy

- **12-Months Limited Warranty**

We provide 12 months warranty for every product from the date of purchase against defects in materials and workmanship. And we will offer repair or replacement service according to the product condition. Please note that this warranty does not cover damaged product caused by misuse or abuse.

- **Return or Exchange Policy**

For detailed policy, please refer to the return and exchange policy on the platform you purchased from.

- **Misdelivery & Missing Parts**

If you receive an incorrect product or discover missing parts after receiving the product, please contact our customer service. AlgoLaser will cover the shipping cost of the incorrect product or send the replacement parts.

- **Troubleshooting Support**

AlgoLaser offers online troubleshooting guides that helps you to solve problems step-by-step. Please reach algolaser.com to get tutorial videos, FAQs, and tech support from professional engineers.

Aftersale Support

① Please go to <http://algolaser.com/support/> to submit your inquiry. To help engineer make faster judgment and provide effective solutions, please provide related pictures and videos within the inquiry.

② Information needed:

| | | |
|------------------------------------|-----------------|------------------|
| Machine Model | Laser Module | Purchase Channel |
| Delivery Date | Computer System | Software |
| Problem Description, Video & Photo | | |

③ After submitting, our engineer will reply you within 24 hours.

CONTENTS

01

Before You Start

| | | |
|-------------------------|-------|---|
| 1.1 Overview of Product | ----- | 1 |
| 1.2 Parts List | ----- | 2 |

02

| | | |
|-------------------------|-------|---|
| Machine Assembly | ----- | 4 |
|-------------------------|-------|---|

03

How to Use

| | | |
|-------------------------|-------|----|
| 3.1 Check before Using | ----- | 12 |
| 3.2 Use Instruction | ----- | 12 |
| 3.3 Power Button | ----- | 13 |
| 3.4 Replace Filter Part | ----- | 13 |
| 3.5 FAQ | ----- | 15 |
| 3.6 Safety Precaution | ----- | 16 |

01

Before You Start

1.1 Overview of Products

The Smoke Purifier is mainly used for the users to purify the air from smoke, dust, toxic and harmful gases and odours, and is suitable for laser engraving, welding, printing, medical and other application scenarios. It features a three-stage filter system design (including cotton pre-filter, medium-sized HEPA filter and main activated carbon filter), 150W high-power motor provides 258m³/h strong airflow and suction, and the purification efficiency is up to 99.97%, which effectively improves the air quality and environmental comfort, allowing you and your family members to enjoy a healthy and comfortable creative experience.

| Specification | |
|-----------------------|---|
| Product Model: | ALSP1.0 |
| Maximum Power | 150W |
| Filtration Efficiency | 0.3μm 99.97% |
| Sound Power | 68±3dB |
| System Flow Rate | 258m ³ /h |
| Intake Connection | φ75mm Flange |
| Input | <input type="checkbox"/> AC120V <input type="checkbox"/> AC220-240V |
| Size | L245*W245*H375mm |
| Weight | 7.45Kg |

1.2 Parts List

Please check carefully to ensure that the packing list below are all included. If any item is missing or damaged, please contact the after-sales service.



① Main Machine * 1

② Wheel * 4

③ Primary Filter Cotton * 1

④ Medium-efficiency Filter * 1

⑤ High Efficiency Filter * 1

⑥ Clamp * 2

⑦ Smoke Pipe Connector*1

⑧ Smoke Pipe * 1

⑨ Power Cable * 1

⑩ Spare Primary Filter Cotton * 3

⑪ User Manual

02

Machine Assembly

01 / 03

Filter Assembly(already pre-installed)

Pulling the Press Latch to open the lid of the smoke purifier, and the High Efficiency Filter, Medium-efficiency Filter and Primary Filter Cotton have been pre-installed in order.



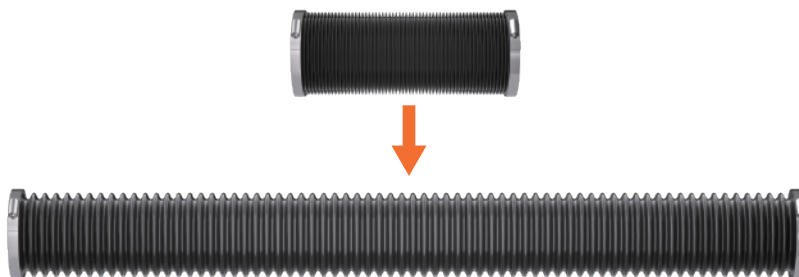
Please refer to the installation video in the Smoke Purifier playlist on <https://www.youtube.com/@algolaserofficial/playlists>.

Smoke Pipe Assembly

Fit Smoke Pipe Connector



Straighten the Smoke Pipe (the initial state is folded)



Attach the end of the Smoke Pipe fitted with the clamp to the pipe flange of the machine's cover. Use a screwdriver to tighten the screws on the clamp to complete the installation of the Smoke Pipe.



 **03** / 03

Smart Enclosure Connection

Attach the clamp to the other end of the Smoke pipe.



Connect the end of the Smoke Pipe fitted with the clamp to the pipe flange on the Smart Enclosure. Use a screwdriver to tighten the screws on the clamp to complete the installation of the Smoke Pipe.



Connect the end of the Smoke Pipe fitted with the clamp to the pipe flange on the Smart Enclosure. Use a screwdriver to tighten the screws on the clamp to complete the installation of the Smoke Pipe.



03

How to Use



| Number | Function Definition | Instruction | Note |
|--------|---------------------|--|------|
| 1 | Power | controls power on/off | |
| 2 | Speed Control Knob | Adjust the air flow volume, the smallest is no air flow | |
| 3 | Indicator Light | Green Light The stronger the air flow, the brighter the light; When the air flow is at its minimum, the light will turn off; | |

3.1 Check before Using

Before turning on the power for the first time, please ensure the following conditions for safe operation.

- a. The machine should be in good condition;
- b. The power button should be in the OFF position;
- c. Filter elements should be evenly placed;
- d. The cover and case should be securely installed;
- e. The speed control knob should be set to MIN;

3.2 Use Instruction

- a. Connect the smoke purifier to a power supply, and check whether the power plug is properly connected. Turn on the power button (Picture 1).



- b. Turn the knob clockwise to start the smoke purifier, and set the airflow as required (Picture 2). It should not be set too high or too low. Excessive airflow will increase power consumption and noise level.

The speed control knob should be set to MIN before starting the machine



- c. After processing, turn the knob to shut down the smoke purifier, and then power off the power.

3.3 Power Button

Press the power button on machine's control panel to start the machine, accompanied by the orange light turning on. Press it again to stop the machine, and the orange indicator light on the control panel will turn off.

If the machine remains idle for an extended period, please turn off the main power switch and unplug the power cord.

3.4 Replace Filter Part

The machine uses disposable filter parts. When these parts have a degree of dust accumulation, please replace them in time to ensure a good purification effect of the machine.

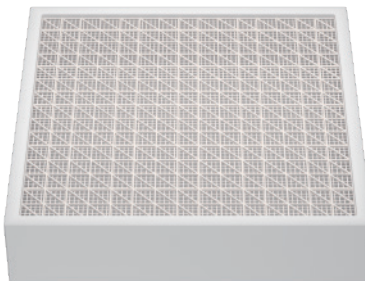
a. Primary Filter Cotton

- ① When more than 70% of its surface is covered by dust and it can't be cleaned, please replace it with a new one.
- ② Place the Primary Filter on the top. The front side (rough side) faces up (in the direction of the air inlet).



b. Medium-efficiency Filter

- ① When the dust accumulated on the Medium-efficiency Filter obviously reduces the suction power, please replace it with a new one.
- ② Place the Medium-efficiency Filter as the main filter, with the grip side facing upwards, in the middle position.



c. High Efficiency Filter

- ① If the filter is unable to remove the smoke odor, please replace it with a new one.
- ② Place the High Efficiency Filter at the bottom of the inside of the machine with the grip side facing upwards.



3.5 FAQ

Question 1: The machine is still working, but the airflow is weak and suction power is very low.

Possible causes: The air inlet is blocked or there are foreign objects in the pipeline. The filter is clogged due to excessive dust accumulation.

Solution: Switch off the power and open the top cover. Check that there is no foreign matter blocking the air intake. Then check that the vent is not locked. If the suction power of the unloaded machine is normal, it means that the filter needs to be replaced.

Question 2: The machine shuts down automatically after just starting. Even if you restart the machine, the same problem will happen again.

Possible causes: The airflow through the machine is blocked, causing the start-up fan current become very high, so that the machine shuts down automatically for self-protection.

Solution: Switch off the power and open the top cover. Check that there is no foreign matter blocking in the air intake. Then turn the speed control knob to the lowest level and restart the machine.

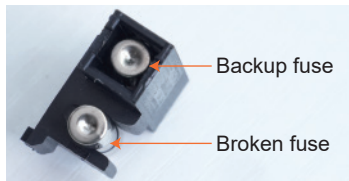
Question 3: The power button is on, but the machine does not run and the power indicator does not light up.

Possible causes: The fuse may be broken.

Solution: The fuse needs to be replaced as follows.



Switch off the power first and open the fuse slot with a screwdriver.



Use a screwdriver to take out the broken fuse.



Replace the fuse with a backup one.
Insert the fuse into the slot.



Fuse replacement is complete.

If the problem is not solved after checking and maintaining, please contact the after-sales service.

3.6 Safety Precaution

Before use, please read and follow the safety precautions listed below to prevent fire and personal injury.

The machine is prohibited to be used in a high temperature environment (above 80°C) or in a flammable, explosive or greasy environment.

The power cable must be grounded. The internal voltage of the machine is up to 310V.

Do not remove or install the filter elements while the machine is in operation. Hands or other objects must not touch the rotating impeller.

The machine's power supply must be within the voltage range indicated in the regulations (according to the power marking on the machine body).

Strictly prohibit the use of too high or too low a voltage than the machine. If the environmental voltage is unstable, please switch off the machine, unplug the power supply, until the power supply is stable and then use it again.

When using the machine, the environmental temperature range of the smoke and dusts intake from the air inlet should be within the atmospheric temperature range with a maximum value of 60°C. Stop using the machine when the temperature is higher or lower than that. At the same time, the humidity of the intake smoke and dust should be between 40% - 80%. If the humidity is too high, the filter elements will quickly fail and the internal circuits will be damaged. Do not use the machine when the humidity is higher than 80%.

The filter must be properly installed before the machine is used. Primary filter cotton is consumable and should be replaced once clogged. (Do not wash and reuse). Please replace it regularly. Do not use the machine without a high efficiency filter or with a poorly performing high efficiency filter.

Strictly prohibit the use of the machine without filter elements, because the direct intake of smoke or dust particles from the machine will damage the fan blower and control system.

Do not continue to use the machine when the filters are clogged. This will shorten the lifespan of the machine and will damage the machine. Please clean and maintain the machine regularly and replace the filter elements regularly to ensure the normal operation of the machine.

If the machine's filter is clogged, the suction power is reduced or the filter elements do not remove odors, do not use the machine by reducing the layers of the machine's filter or by not using a high-efficiency filter or primary cotton.

please do not open the machine for maintenance by yourself. The warranty label on the machine is your only guarantee of after-sales service, so please do not tear or damage it.

If the machine is not used in accordance with the instructions, any loss or damage caused is your own responsibility.

Certificate



True Safety Testing

Certificate Of Compliance

Certificate No. : TST2024071718-3RC
Applicant : Shenzhen Algo Technologies Co., Ltd.
 5th Floor, Building E5, Juyin Technology Industrial Park, Ganli Road, Longgang District, Shenzhen 518116, China

Sample Name : Smoke purifier
Trade Mark : AlgoLaser
Main Model : ALSP1.0
Series Models : ALSP2.0, ALSP3.0, ALSP4.0, MM FP01, ALMCE1.0, ARC1.0, ARC2.0, ARC3.0, ARC4.0, ARR1.0, ARR2.0, ARR3.0, ARR4.0 (All models share same electric circuit except outer shape and model name.)
Test Standard : IEC 62321-1-2:2013
 IEC 62321-3-2:2013
 IEC 62321-4-2:2013/AM01:2017
 IEC 62321-6:2013
 IEC 62321-6:2015
 IEC 62321-7-2:2015
 IEC 62321-7-2:2017
 IEC 62321-9:2017

As shown in the Test Report No. : TST2024071718-3RR

The EU T (described above) has been corroborated by us and found in compliance with the council RoHS 2.0 Directive (EU) 2015/863 and (EU)2017/1510 amending Annex II to Directive 2011/65/EU. The certificate applies to the tested sample alone mentioned only and shall not imply an assessment of the whole production. It is only valid in connection with the test report Number TST2024071718-3RR



RoHS



Certification Manager
Date: Jul. 12, 2024

Dongguan True Safety Testing Co., Ltd.
 Room 205, No. 28, East of Heqin Avenue, Heqin, Dongguan, Guangdong, China
 Tel: +86-0769-85088850 4001069090 E-mail: ts@ts-test.com http://www.ts-test.com



True Safety Testing

Certificate Of Compliance

Certificate No. : TST2024071718-1SC
Applicant : Shenzhen Algo Technologies Co., Ltd.
 5th Floor, Building E5, Juyin Technology Industrial Park, Ganli Road, Longgang District, Shenzhen 518116, China

Manufacturer : Shenzhen Algo Technologies Co., Ltd.
 5th Floor, Building E5, Juyin Technology Industrial Park, Ganli Road, Longgang District, Shenzhen 518116, China

Product Name : Smoke purifier
Trade Mark : AlgoLaser
Main Model : ALSP1.0
Series Models : ALSP2.0, ALSP3.0, ALSP4.0, MM FP01, ALMCE1.0, ARC1.0, ARC2.0, ARC3.0, ARC4.0, ARR1.0, ARR2.0, ARR3.0, ARR4.0 (All models share same electric circuit except outer shape and model name.)
Test Standard : EN 60529-1:2012-01-15:2012
 EN 62233:2009
As shown in the Test Report No. : TST2024071718-1SR

The EU T (described above) has been tested by us with the listed standards and found in compliance with the council LVD Directive 2014/35/EU. It is permitted to use CE marking to demonstrate the compliance with this LVD Directive.

The certificate applies to the tested sample alone mentioned only and shall not imply an assessment of the whole production. It is only valid in connection with the test report number: TST2024071718-1SR



CE



Certification Manager
Date: Jul. 16, 2024

Dongguan True Safety Testing Co., Ltd.
 Room 205, No. 28, East of Heqin Avenue, Heqin, Dongguan, Guangdong, China
 Tel: 86-0769-85088850 4001069090 E-mail: ts@ts-test.com http://www.ts-test.com

ATTESTATION OF CONFORMITY



Supplier's Declaration of Conformity

Certificate No. : FCS20240715TFV01

Product : Smoke purifier
Brand Name : AlgoLaser
Model(s) No. : ALSP1.0
Series Model : ALSP2.0, ALSP3.0, ALSP4.0, MM FP01, ALMCE1.0, ARC1.0, ARC2.0, ARC3.0, ARC4.0, ARR1.0, ARR2.0, ARR3.0, ARR4.0
Holder : Shenzhen Algo Technologies Co., Ltd.
Address : 5th Floor, Building E5, Juyin Technology Industrial Park, Ganli Road, Longgang District, Shenzhen 518116, China
Manufacturer : Shenzhen Algo Technologies Co., Ltd.
Address : 5th Floor, Building E5, Juyin Technology Industrial Park, Ganli Road, Longgang District, Shenzhen 518116, China

The products electromagnetic emission have been tested to conform to the applicable FCC Rules and Regulations:
FCC 47 CFR Part 15, Subpart B

The test result has been evaluated by Flux Compliance Service Laboratory and showed in the test report. (Report No. = FCS202407157E02)
 Operation is subject to the following two conditions:
 (1) This device may not cause harmful interference,
 (2) This device must accept any interference received, including interference that may cause undesired operation.
 It is understood that each unit marketed is identical to the device as tested, and any changes to the device that could adversely affect the emission characteristics will require retest.

Without the written approval of Flux Compliance Service Laboratory, this verification is not permitted to be reproduced, except in full. It is not permitted to use the test lab's logo.



Approved by: *Jack* 

Jul 17, 2024

Jack Wang/Managerial

The statement is based on a single evaluation of the sample of above mentioned product(s). It does not imply an assessment of the whole production.

Flux Compliance Service Laboratory
 Tel: 0769-27280901 http://www.fcs-lab.com



Follow us! #AlgoLaser

 AlgoLaser Official

 AlgoLaser_Official

 Algolaserofficial

 algo.laser

 AlgoLaser Official User Group

 AlgoLaser Official



MADE IN CHINA



www.algolaser.com/support/

此页不印刷

| | | | | | | | | | |
|--------------|-----|--------------------|--------------|-------------------|-------------------------|-------------|--------------|--------------|--|
| 版本/REV. | | 修订内容/Revision Note | | | | 日期/Date | | 确认人/Check By | |
| 比例 SCALE | 1:1 | 单位 UNIT | 毫米 mm | 深圳奥菲诺科技有限公司 | | | | | |
| 版本 REV. | A1 | | | | | | | | |
| 核准 APR. | | 图号 Drawing NO. | ASP-J-01 | 材料 Material | 封面 200g铜版纸 内页 80g铜版纸 | 尺寸 | 160*225mm | | |
| 审核 CHK. | | 品名 P/N. | 烟雾净化器 软管 说明书 | 装订方式 ST. | 骑马钉 | 页次 Page. | 24 | | |
| 绘图 DRAWN. | 曾玲玲 | 机型 Model. | 烟雾净化器 | 物料编码: Part NO. | | 日期 Date. | 2024. 10. 25 | | |