



# Air Disinfection & Purification Machine (FAST-Y-90A)

## Installation & Operation Manual

Triple disinfection & purification technology  
Dynamic tracking & Remote intelligent control  
Remote intelligent control

## CONTENT

<b>Tips</b> .....	<b>4</b>
About User Manual .....	4
Updates after Finalization .....	4
Additional Information .....	4
FAST-Y-90A Air Disinfection & Purification Machine .....	4
Timeliness of User Manual .....	5
Self-security .....	5
Maintenance and Repair .....	5
Parts and Accessories .....	5
<b>Summary</b> .....	<b>6</b>
Product Overview .....	6
Application .....	6
Advantage .....	6
<b>Assembly Drawing</b> .....	<b>6</b>
<b>Operation</b> .....	<b>8</b>
Power-on .....	8
Startup / Shutdown .....	8
Brief Introduction of Touch Screen Functions .....	9
<b>Maintenance</b> .....	<b>20</b>
Maintenance Tips .....	20
Pre-maintenance Work .....	21
Maintenance Operation .....	21
Maintenance of Purification System .....	23
Maintenance of Disinfection System .....	23
Maintenance of Deodorization System .....	23
After-maintenance Work .....	24

---

<b>Technical Parameters</b> .....	<b>25</b>
<b>Safety Instruction</b> .....	<b>26</b>
External Power .....	26
Usage Position .....	26
Routine Maintenance and Inspection .....	26
Pre-use Inspection .....	26
<b>After-sales Service</b> .....	<b>26</b>
<b>Technical Fault</b> .....	<b>26</b>
<b>System Upgrade</b> .....	<b>26</b>

## User Manual

Congratulations on choosing FAST series air disinfection purifier. The more familiar you are with your air purifier, the more comfortable you will find it in use; So, we ask you: Please read this user manual carefully before starting your new FAST air purifier. You'll get important tips on air purifier to take full advantage of the technology of FAST air purifier, as well as useful information on the safety and maintaining of the unit. Sincerely wish you safe and happy during use!

## Catalogue

Through the directory of this manual, you can find the specified topic quickly.

## Tips

### About User Manual

Through the directory, you can find the specified project quickly. It is recommended to read the user manual carefully in order to understand your FAST air purifier.

### Updates after finalization

When the user's manual has been finalized, if updates are necessary, it shall be attached to the printed brief notes.

### Additional Information

If you have any further questions, please feel free to contact our after-sales service center

**Tel:** (+86) 400-601-8390;

**Email:** sales@i-wind.com;

**Website:** www.i-wind.com

### FAST-Y-90A Air Disinfection & Purification machine

This manual describes all the systems and functions in the FAST series products. Therefore, the actual position of some operating elements may be different from that shown in the illustration due to the different air disinfection model and appearance design you purchased.

## Timeliness of User Manual

Through continuous further developing, we guarantee the high performance and high quality of FAST series air purifier. Therefore, your FAST air purifier may occasionally differ from the description.

## Self-security

Your FAST purifier is technically designed according to the operating conditions set in the technical parameters table of this manual. If it is to be used in other countries, please inform us in advance according to local operating conditions and licensing requirements so that we can adjust the design.

## Maintenance and Repair

- The warranty period is 12 months from the date of delivery, unless otherwise stated in the product-specific warranty, offer or contract
- Repairing a defective part or device or if needed replacing the faulty part or unit with a new one according to the consideration of the salesperson is included in the warranty.
- This operation shall only be permitted at the SHANGFENG After-sales Service Center or agent by personnel with corresponding training in accordance with the provisions of SHANGFENG Company.
- Possible travel expenses and freight costs that are caused by the warranty repair are not included in the warranty.

## Parts and Accessories

SHANGFENG is not responsible for any parts and accessories without its approval. For any product that is not SHANGFENG's original factory or is not approved by SHANGFENG, it cannot be determined whether it can be used on the SHANGFENG air disinfection purifier without safety risks, even if an official body gives its approval. These tests cannot always take into account all conditions of use of the SHANGFENG air purifier and are therefore inadequate.

## Summary

### Product Overview

FAST series Air Disinfection & Purification Machine is composed of air intake system, purification system, disinfection system, exhaust system, deodorization system, noise reduction system, intelligent control system and big data platform.

### Application

It is suitable for disinfection and purification of indoor air in Terminal building, waiting room, subway station, hospital, school, exhibition hall, museum, library, venue, hotel, shopping center, supermarket, cinema, office building and other closed spaces.

### Advantage

Super-large purification area, super-high purification flux and super-strong purification effect. Products have obtained CE certification, the US FCC certification, China Environmental Labelling(II) product certification, China CCC certification.

## Assembly Drawing

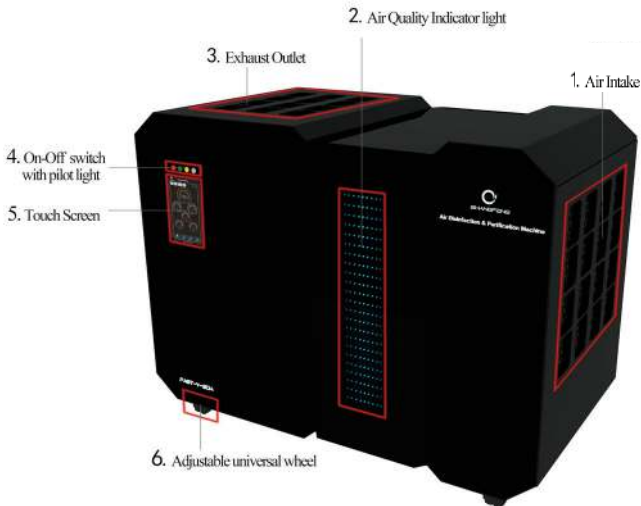


Figure-1

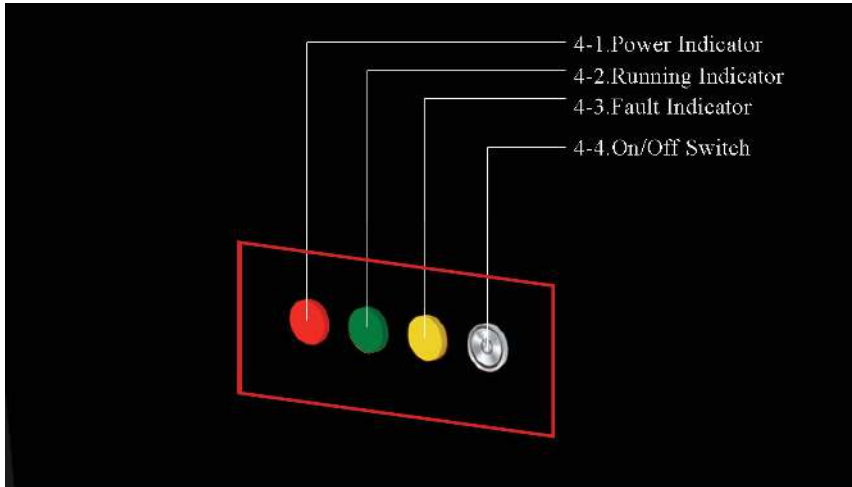


Figure-2

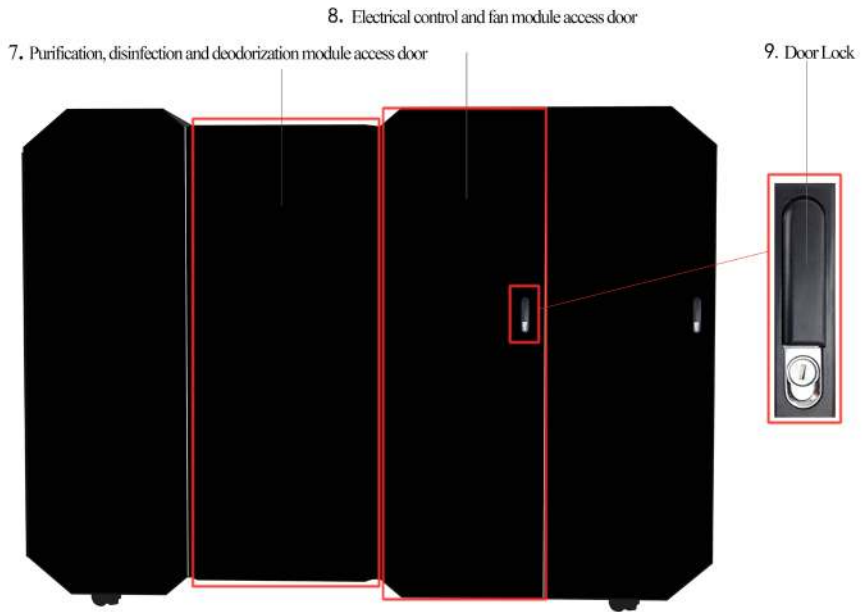


Figure-3

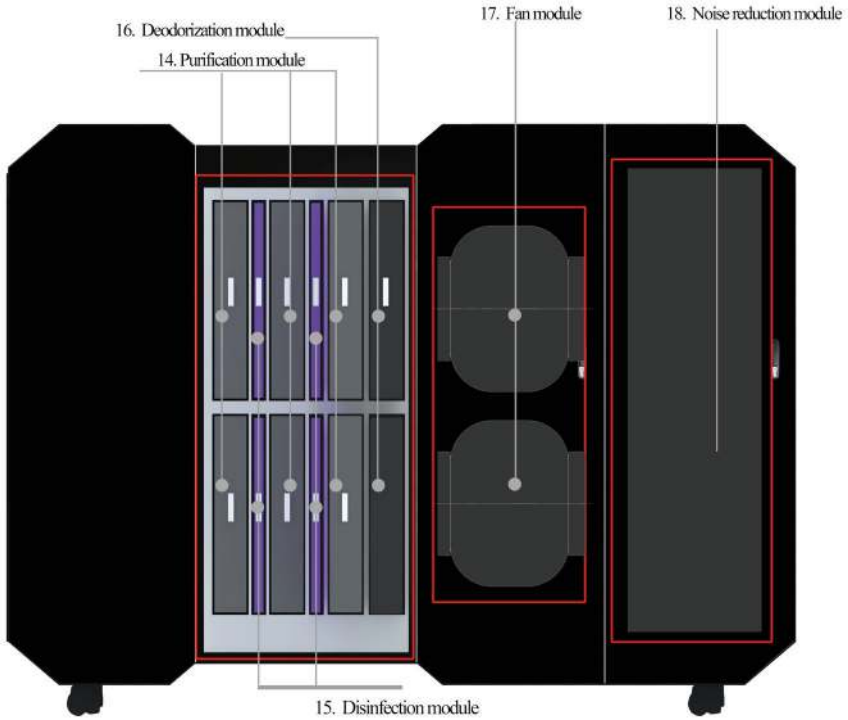






Figure-4

## Operation

### Power-on



Insert the power plug (three-phase ground) of the purifier into an external independent socket (it should be reliably grounded). After the power is switched on, the 4-1  red power indicator on the purifier lights up, indicating that the power has been switched on.

### Startup / Shutdown

Startup: After the 4-1  red power indicator lights up, press the 4-4  switch button, the 4-2  green running indicator on the purifier will light up, the touch screen will start up, and the screen will light up, indicating the purifier has entered standby mode.



It takes about 10 seconds for the touch screen to start up for the first time.

Shutdown: please press the 4-4  switch button on the purifier. The 4-2  green running indicator is off and the touch screen is off, indicating that the device has been shut down.

## Brief Introduction of Touch Screen Functions

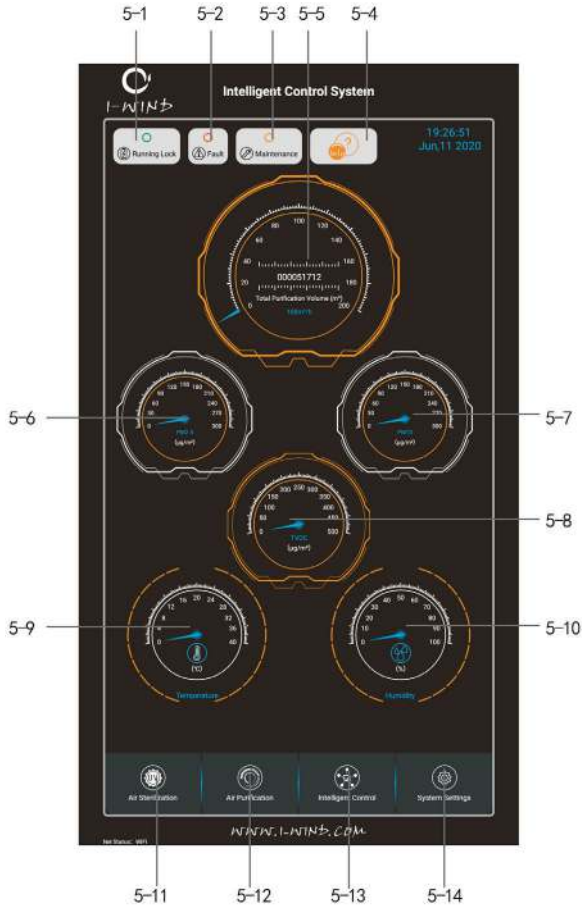


Figure-5

**Running Lock on/off:** Touch the running lock of the device to control its on and off. The running lock indicator light will show the status.

**Malfunction Tips:** When the unit fails, the unit failure indicator 5-2 will flash, indicating that the unit fails.

**Maintenance Tips:** When the unit runs long enough, the unit maintenance indicator 5-3 will light up, indicating that the unit needs maintenance.

**Help Tips:** When users have questions about the using, operation and precautions of the unit, they can touch the 5-4 help button for help query.



Figure-6

**Cumulative total purification volume, purification volume per hour:** Users can check the cumulative purification volume and the purification volume per hour through the data displayed by the 5-5 meter.

**PM2.5:** Users can check the PM2.5 value under the current operating environment through the data displayed by the 5-6 meter.

**PM10:** User can view the PM10 value in the current running environment through the 5-7 meter display

**TVOC:** Users can view TVOC values in the current operating environment through the 5-8 meter display.

**Temperature:** Users can view the current operating environment temperature values through the 5-9 meter display.

**Humidity:** Users can check the humidity value under the current operating environment through the 5-10 meter display.

**Air purification status:** Touch the 5-11 Air Sterilization icon to inquire the daily and monthly disinfection time, cumulative disinfection time and volume.

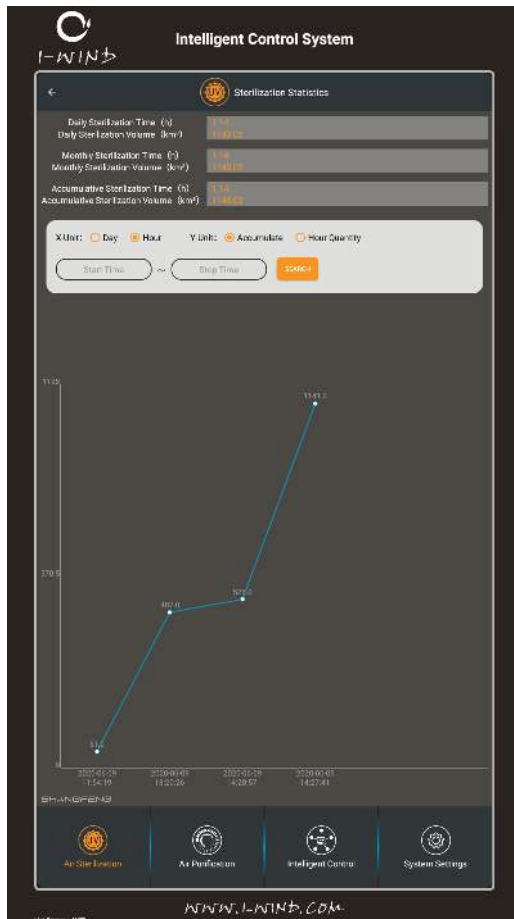


Figure-7

**Air purification status:** Touch the 5-12 Air Purification icon to query the daily and monthly purification time, cumulative purification time and volume.

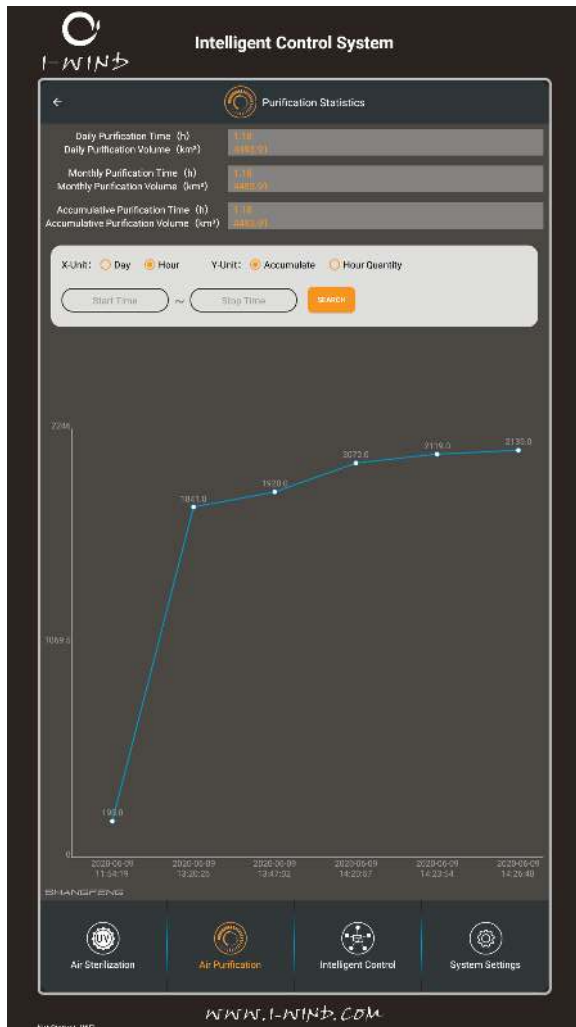


Figure-8

## Intelligent Control

Touch 5-13 Intelligent Control icon to set the following functions:

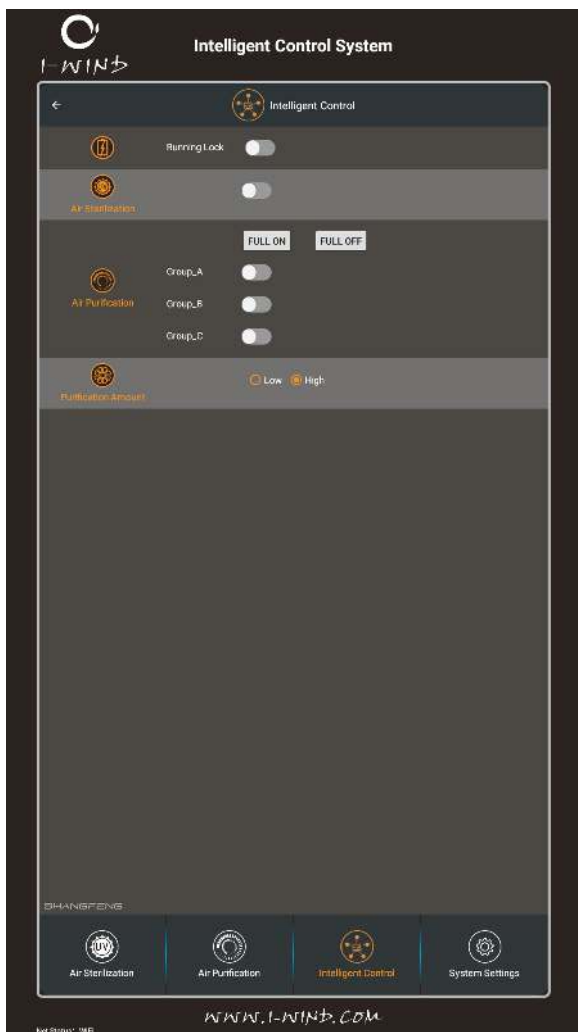


Figure-9

**Running Lock on/off:** Touch the 5-13 intelligent control icon on the touch screen and touch the running lock button to yellow to open the operation lock; Touch the running lock button to gray and the running lock is closed.

**Air Sterilization on/off:** Touch the 5-13 Intelligent Control icon on the screen, then touch the on/off button of Air Sterilization when the Running Lock of the device is open. Select the sterilization function to turn on or off.

**Air Purification on/off:** Touch the 5-13 intelligent control icon on the touch screen, then touch the purification fully on/off button when the running lock of the device is on. Touch the group on/off button to select the purification function group on or off.

**Purification Amount:** Touch the 5-13 intelligent control icon on the touch screen, then touch the purification amount adjustment button when the running lock is on to select high or low purification volume.

## System Setting:

**Touch the system settings icon 5-14 to set the following functions:**

**Running Mode:**

**Touch the running mode icon to select local operation or remote control.**

**Timing:** In local operation mode, you can select the device to run regularly.

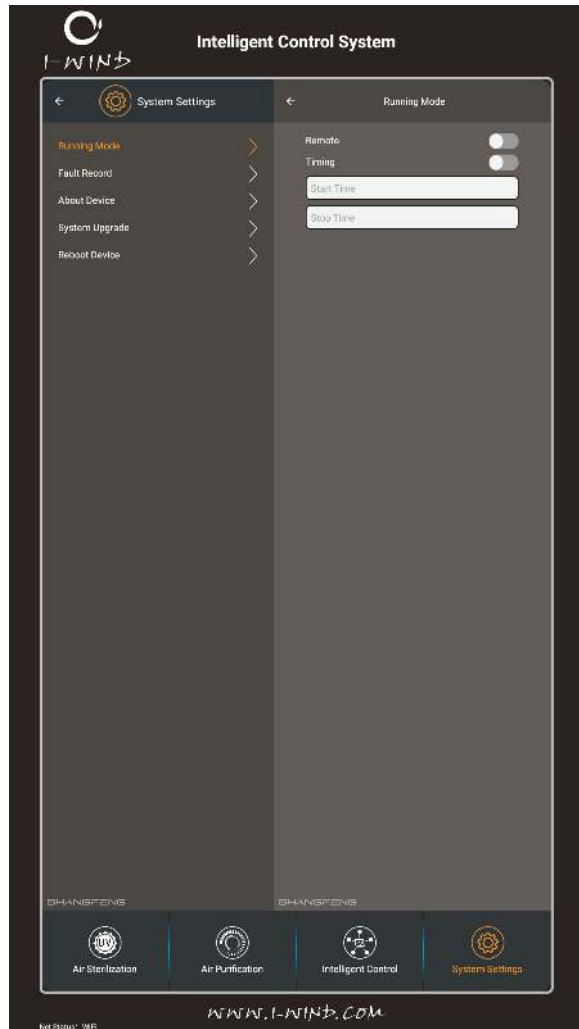


Figure-10


**Fault Record:** If there is a fault during running time, the 4-3  yellow indicator will light up, and the 5-2 fault indicator light will flash, indicating that there is a fault needs to debug. Touch this button to view the fault record;



Figure-11



**About Device:** Touch this button to view information related to the device.



Figure-12

**System Upgrade:** When the device is connected to the Internet, touch this button to upgrade the system.

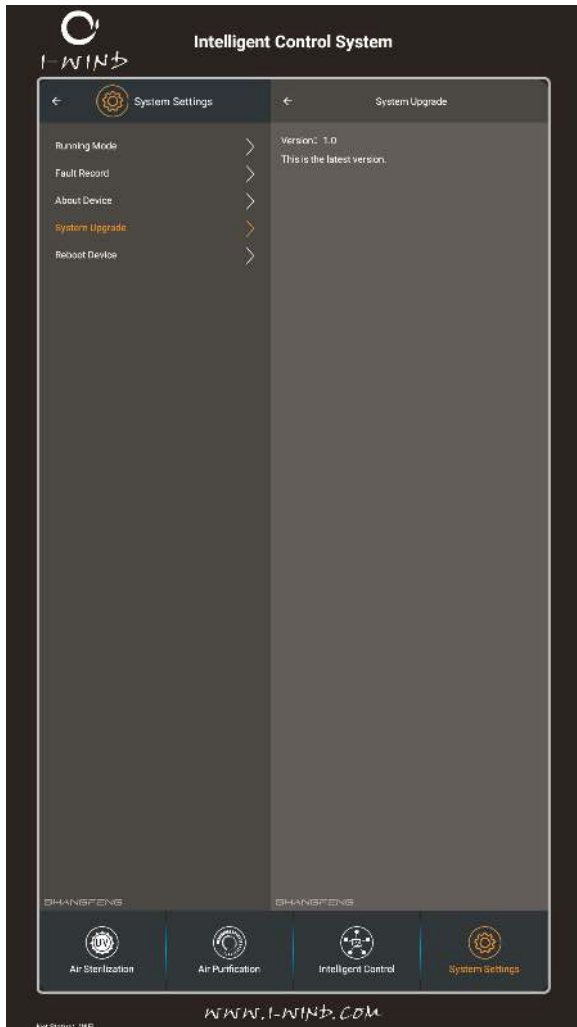


Figure-13

**Reboot Device:** Touch this button and confirm the dialogue to restart the device.

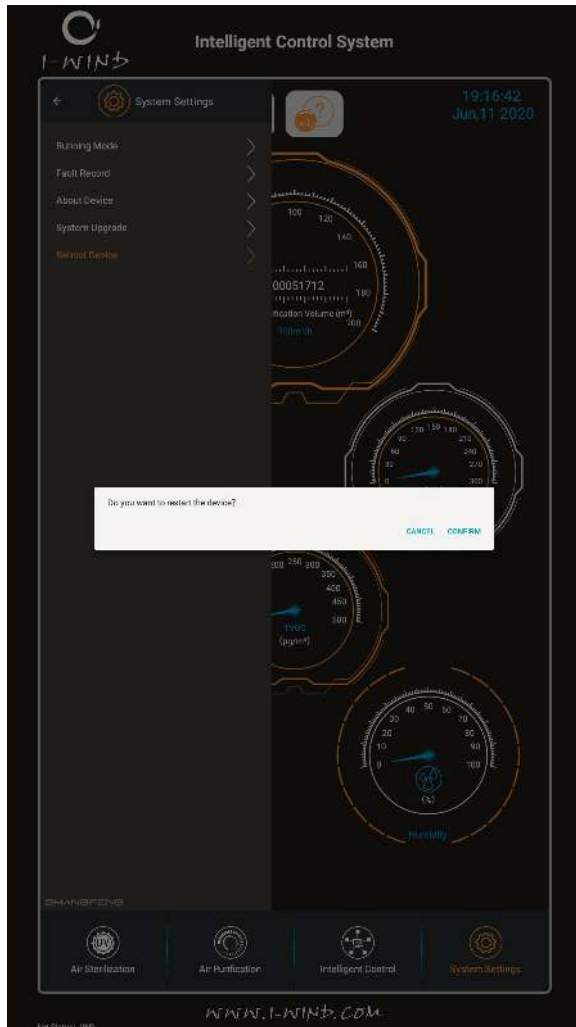


Figure-14

# Maintenance

In order to ensure the normal operation of the Air Disinfection & Purification Machine, users need to carry out daily maintenance of the unit.

## Maintenance Tips

When the purifier reaches the condition of daily maintenance, the 5-3 maintenance indicator above the touch screen lights up, indicating that the unit needs maintenance.

After the maintenance finished, touch the 5-3 maintenance indicator to enter the maintenance interface as shown in Figure-15. Touch the completed maintenance project, and the system can record the maintenance time and contents.



Figure-15

## Pre-maintenance Work

Before the daily maintenance of the purifier, it is required to turn on the 5-13 intelligent control icon and close all air purification modules to ensure that the air purification system is closed. Open the air disinfection module and keep the air disinfection continuously for more than 2 hours

Disconnect the plug from the external power supply. The maintenance work must be carried out in the unit state of power-off.

## Maintenance Operation

Open access door No. 7: Lift up from the lower access door (the direction shown in Figure-16) to open it;

7. Purification, disinfection and deodorization module access door

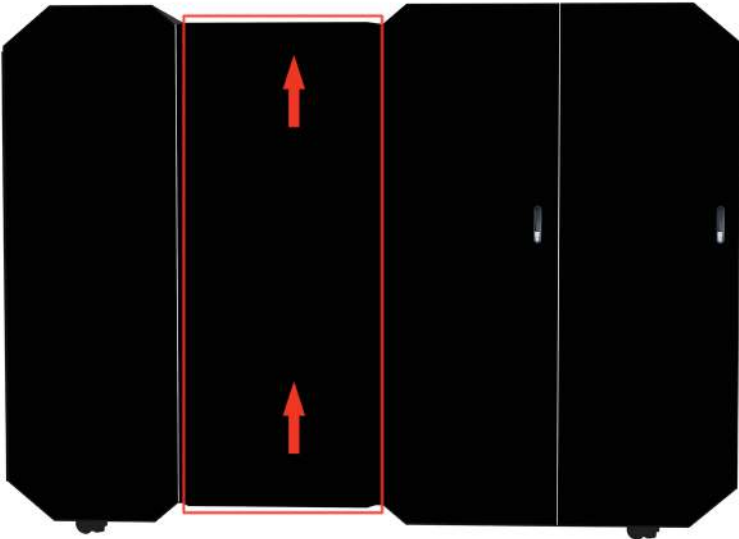


Figure-16

As is shown in Figure-17, insert the special key 12 of triangular lock (the key is stored in the special tool box) into the triangular lock 10, turn the lock core to open the inner compartment seal board lock, and remove the inner compartment seal board;

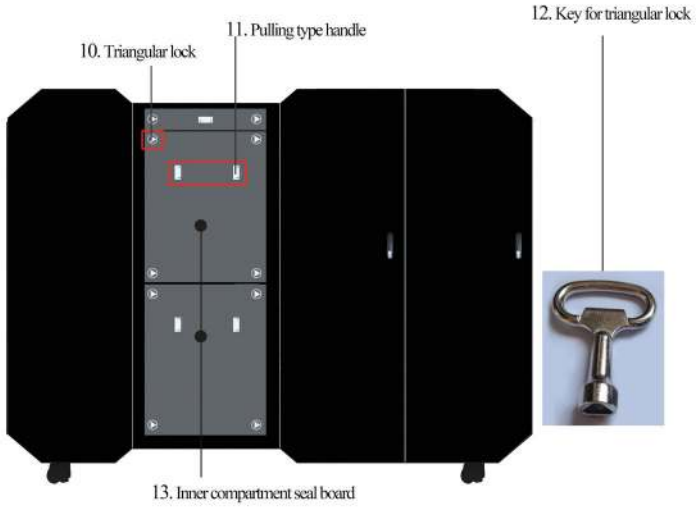


Figure-17

As is shown in Figure-18, draw out the purification module, disinfection module and deodorization module respectively

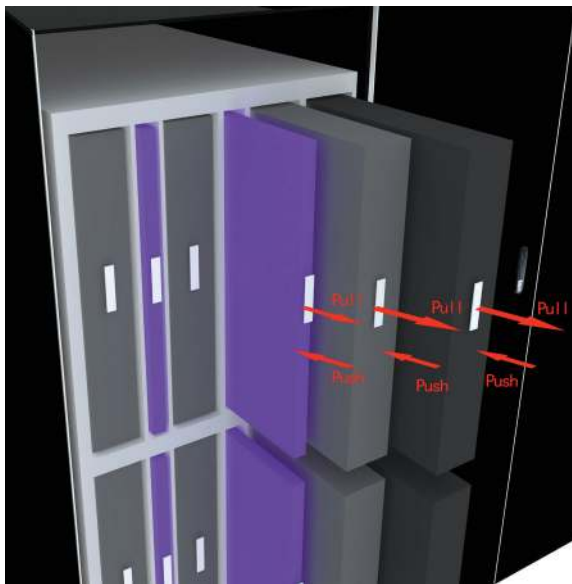


Figure-18

## Maintenance of Purification System

Draw out the purification module, place it in the cleaning area, clean the dust on the module with air pump and brush, or put it in a special cleaning pool, and rinse it with warm water mixed with detergent (daily use detergent) at 30°C ~ 40°C. The purification system should be maintained once the unit has running 4-6 months or more than 4000 hours after last maintenance.

Important Note! Before maintenance, the disinfection module must work continuously for 2 hours, and the unit maintenance can only be carried out under the condition of power off.

Note: Water washing mode is adopted. All cleaned modules must be dried thoroughly before reuse.

## Maintenance of Disinfection System

Draw out the disinfection module, place it in a cleaning area, and clean the dust on the ultraviolet lamp tube with a soft bristle brush or towel; The disinfection system should be maintained once the unit has running 4-6 months or more than 4000 hours after last maintenance.

Important Note! Before maintenance, the disinfection module must work continuously for 2 hours, and the unit maintenance can only be carried out under the condition of power off.

The service life of the ultraviolet lamp tube is 10000h. The ultraviolet lamp tube should be replaced after the service life. Otherwise, the disinfection effect will be affected.

Note: Please use the original parts and accessories when replacing the UV lamp.

## Maintenance of Deodorization System

Draw out the deodorization module and place it in the cleaning area. Use air pump to clean the dust on the module. The deodorization system should be maintained once the unit has running 4-6 months or more than 4000 hours after last maintenance.

The deodorization system shall be replaced after running for 36 months.

Important Note! Before maintenance, the deodorization module must work continuously for 2 hours, and the unit maintenance can only be carried out under the condition of power off.

Notes: Please use the original parts and accessories when replacing the deodorization module.

## After-maintenance Work

After the maintenance, install the purification, disinfection and deodorization modules in sequence to ensure the installation is in place;

Install the inner compartment sealing plate and lock it with the special key;

Install access door No. 7: Align the access door with the buckle, insert it from the top down, and install the access door to ensure firm installation;

After each maintenance, before use again, try to run for 5 minutes to ensure the normal operation of the purifier.



## Technical Parameters

Parameters	FAST-Y-90A-M	FAST-Y-90A-L
External dimension (mm)	2670(W)×1695(H)×1055(D)	2045(W)×1695(H)×1370(D)
Net weight (kg)	≤ 550	≤750
Voltage(V) / Frequency (Hz)	AC220/50	AC220/380/50
Power (KW)	≤2.8	≤5.5
Touch Screen (inch)	15.6	15.6
Total fan ventilation volume (m <sup>3</sup> /h)	7200	12000
H1N1 Virus killing rate (%)	≥99.9	≥99.9
Staphylococcus white killing rate (%)	≥99.9	≥99.9
Air natural bacteria extinction rate (%)	≥90.0	≥90.0
Formaldehyde eliminate rate (%)	87.5	87.5
Benzene eliminate rate (%)	98.7	98.7
Operation mode	Local / Remote	Local / Remote
Temperature	-10~+40°C	-10~+40°C
Installation requirements	Flat solid ground	Flat solid ground
Bottom wheel	Adjustable universal wheel	Adjustable universal wheel
Notes	<p>The total air volume of the fan is calculated according to the theoretical air volume of the fan unit</p> <p>The effect of air disinfection and purification is based on the test report issued by a third party</p>	

## Safety Instruction

### External Power

The external power supply must meet the technical parameters of the unit and must be connected by a professional electrician. After the unit is connected to the external power supply, it should run for at least 2 hours. It can be normally used after the trial run without defects.

### Usage Position

The use position of the unit should be flat and solid ground indoor and in a position conducive to the circulation of air.

### Routine Maintenance and Inspection

The user should carry out routine inspection of the unit and make routine maintenance during the usage.

### Pre-use Inspection

There may be some loose fastening places in the transportation process of the product. It should be thoroughly checked before use to ensure that the product is firm and safe to use.

## After-sales Service

**Tel:** (+86)400-601-8390

**Email:** sales@i-wind.com

**Website:** www.i-wind.com

## Technical Fault

If you plug in the external power supply according to the instructions, unit cannot work normally. Please open the access door 8, check whether the power leakage protection switch is closed. If the unit still cannot running normally, please be sure to first contact our after-sales service staff or authorized agents in order to avoid subsequent damage or safety hazard.

## System Upgrade

When the device is connected to the Internet, touch the system setting icon 5-14 on the touch screen, then touch the system upgrade button to upgrade the system. If the system cannot be updated, please contact our after-sales service or authorized agent as soon as possible.