

**Klarwind**

**Klarwind Air Purifier**  
**USER MANUAL**

**Klarwind-500s**

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Make a correct use after reading ‘The Cautions for a Safety’  
Keep a user manual safely to use it conveniently.

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## Features



### 5-STAGE Air Filter System

Pre filter : 1/removing large dusts

- Removing the various large living dusts in the air

Hepa filter : 2/ removing ultra-fine dusts

- Removing the ultra-fine dusts in the air

Active Carbon filter : 3/removing odor, harmful gases and TVOC



### Real-time Indoor Air Quality monitoring

According to Indoor Air Quality monitoring, Air Quality indicator can display 4 colors (Blue/Good ↔ Green/Moderate ↔ Yellow/Unhealthy ↔ Red/Very Unhealthy)

Indoor Air Quality indicator showing worse pollution level between Dust and Gases(odor & TVOC)



### Auto mode

Automatically adjust fan speed according to indoor air quality



### Turbo mode

Use a turbo mode when it is required to clean an indoor space rapidly!

An indoor space will be made comfortable, more rapidly, thanks to its excellent fan speed.

Turbo mode makes high volume of Air flow to clean Indoor Air pollution rapidly

- The turbo mode can be used to clean the indoor air rapidly.

Select 'Turbo mode', 'Auto mode' is automatically disabled .



### Filter life monitoring

Don't worry about the time for replacing a filter which may be missed!

- The status of a filter can be grasped as a filter life is indicated on the Display.

- If a filter life is lower than 10%, the status of a filter is notified as the Display flashes.

Filter life monitor automatically calculates and displays the remaining filter life Less than 10% of filter life, Filter Replacement Alram ON



### Mounting the wheels on the bottom of a product

Hidden wheels for the convenient mobility!

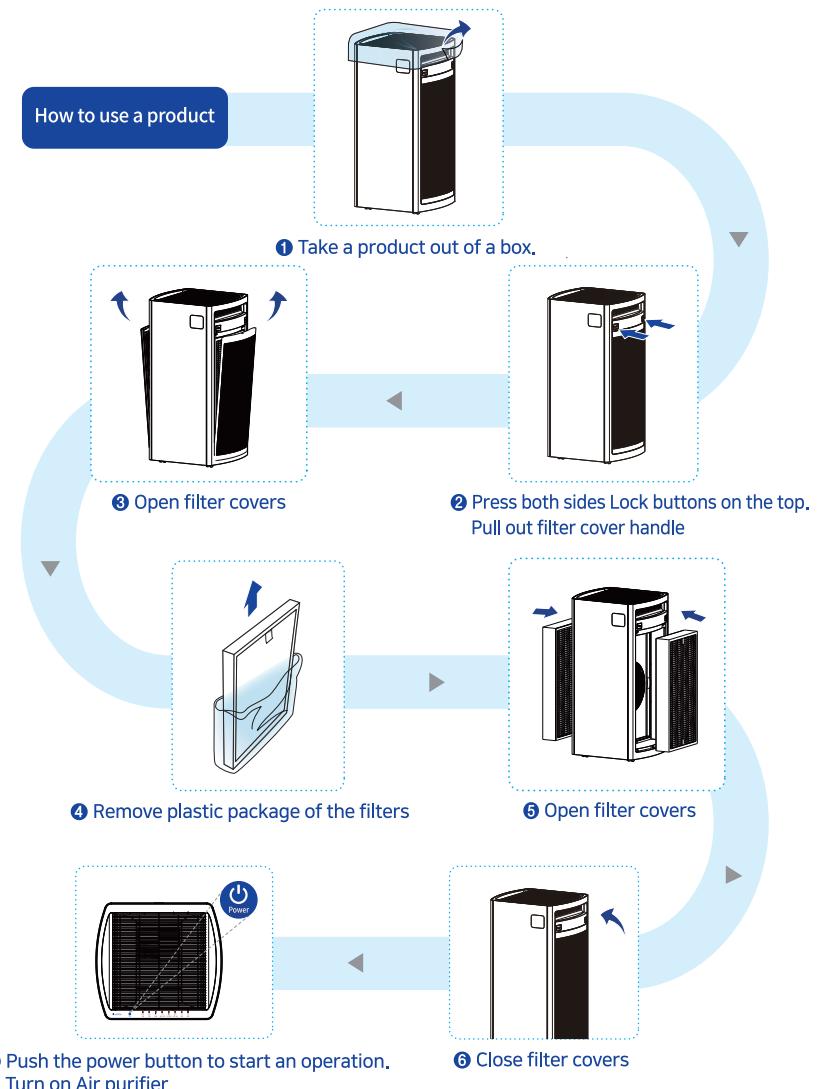
- Hidden wheels can be used for the safe and convenient mobility in a home

The function and specification may be different depending on the Product type.

## Quick Start Guide

MUST remove plastic package of the filters before using.

### How to use a product



## Notice!

This Product is for 120V-60Hz only.



The below are the contents for the safety of a user as well as preventing a loss of property in advance.  
Use this Product correctly after reading the below contents.  
This indicates a serious hazardous situation that may result in death or severe injury to the user or others when the instructions are not followed.



### Power source

- This Product is for 120V-60Hz only. Be sure to check the voltage before using it. Careless handling may cause an electric shock or a trouble of a product.
- When unplugging the product, do not pull the power cord. Grab and take the power plug out. Careless handling may cause an electric shock or a fire.
- Do not insert or touch the power plug with wet hands. Careless handling may cause an electric shock.
- Do not change the length of the power cord. Do not use the power source while it is used for other products. Careless handling may cause a fire by an electric shock or a heating.
- Do not forcibly bend electric cables. Do not press electric cables, by heavy things, to be damaged. Careless handling may cause an electric shock or a fire.
- Unplug the power plug under the situation 'thunder & lightning' and no use for long time. Although the product is not used, if the power cord is plugged, it may cause an electric shock or a fire.
- Do not plug to excessive the voltage . Careless handling may cause a fire by an electric shock or a heating.
- Do not damage power cord. Do not use non-standard products. Careless handling may cause an electric shock or a fire.
- Do not plug into a loose electric outlet. Defective connection may cause an electric shock or a fire.

### Installation

- Do not put the things related to a fire source and combustible or flammable matters (spray, oil and gas etc.) around the product. Careless handling may cause an explosion or a fire.
- Do not use the product in the places (a bathroom, a shower room and a swimming pool etc.) where it may contact directly with water. Careless handling may cause a fire by an electric shock or an abnormal heating.
- Do not put a product around a direct ray of light or a thermal source. Careless handling may make the plastic parts of a product melt or cause a fire.
- Do not use the product in a small space. Careless handling may cause overheating or a fire.
- Do not use the product on a sloped and uneven floor. Careless handling may cause a trouble or a deformation.

This product can not be used by a person who lack bodily, sensory or mental capabilities or a person (for example, a child etc.) who lack knowledge and experiences without appropriate supervision or instruction.



The below are the contents for the safety of a user as well as preventing a loss of property in advance.  
Use this Product correctly after reading the below contents.  
This indicates a serious hazardous situation that may result in death or severe injury to the user or others when the instructions are not followed.



### Cleaning

- If water enters into a product, call the Service Center (TEL #) after stopping its operation and unplug. Careless handling may cause an electric shock or a fire.
- When cleaning a product or replacing its filter, unplug. Careless handling may cause an electric shock or an injury.
- When cleaning a product, do not wipe, do not wipe it with flammable explosive matters such as a benzene, a thinner and an alcohol etc. Careless handling may cause an electric shock or a fire.

### Installation

- When moving or lifting a product, use the handles in the both sides. Careless handling may cause an injury.
- Do not use a product for ventilation. Careless handling may cause a short product life.

### Others

- Stop the use of a product, when a power cable(or a power plug) is damaged or the hole of a power outlet is loose, call the Service Center (TEL: (562) 921-3330). Defective connection may cause an electric shock or a fire.
- Do not disassemble, repair or reorganize a product. Especially, do not let a child play with it as well as manipulate or operate it. Abnormal operation may cause an injury, an electric shock or a fire.
- Do not sprinkle insecticides or combustible sprays on a product. Careless handling may cause a trouble or a fire as well as harm a human body.
- When abnormal sounds, odors or smokes are caused in a product Unplug. Careless handling may cause an electric shock or a fire.

## The matters to be checked before using a product



### •When moving and carrying a product

- Do not touch a product with wet hands when moving a product and inserting or taking out the power plug. Careless handling may cause an electric shock or an injury.



### •The matters to be recognized during an installation

#### - Do not insert the power plug into a loose outlet.

There is a risk of overheating.

#### - Use a product in the indoor area out of a direct ray of light.

Careless handling may cause a malfunction or a failure of a product.

#### - Use a product on a hard and even floor.

Installing a product on a weak and inclined floor may result in abnormal noise and a vibration.

#### - Use a product 1m or more away from TV, radio and electronic devices.

Careless handling may cause malfunction due to an electromagnetic interference.

#### - Use this product 50cm or more away from the left and right walls.

Careless handling can make the air to be circulated smoothly, which may lead to a decrease in the purification capacity. In general, as a product is placed in the center of a room, the circulation of an air will be better.

#### - Make sure that a door or a window is closed before using a product.

Use this air purifier indoors only, such as in a living room or a bedroom, and never use it in wet or outdoor environments.

#### -Do not put the things related to a fire source and combustible or flammable matters (spray, oil and gas etc.) around a product.

Careless handling may cause an explosion or a fire.

#### -Make sure that there is no material blocking the air outlet during an installation.

The machine may be overheated and damaged. Do not put a product near soft objects such as a curtain.



### •The matters which should be recognized before using a product

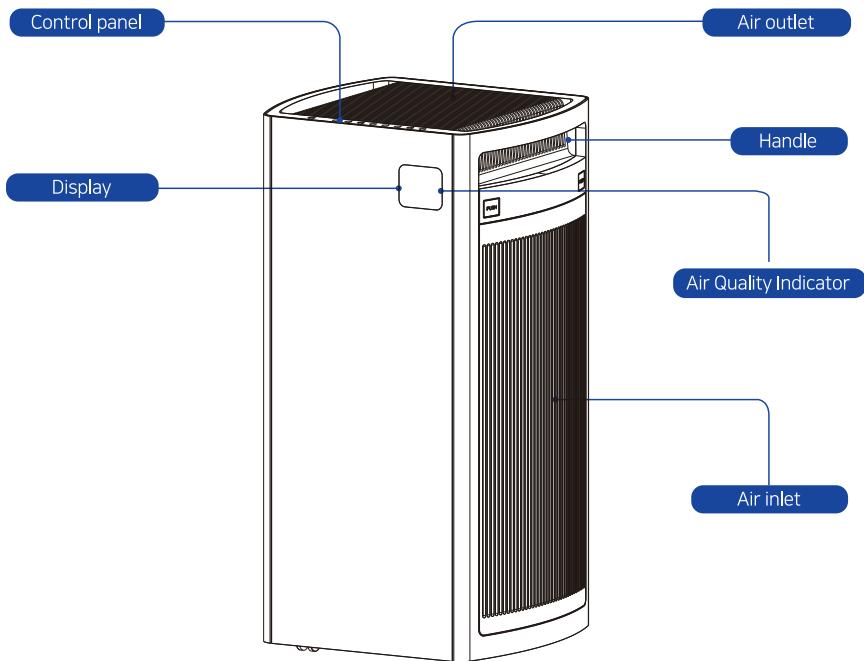
- The name plate attached to the side of a product contains the electrical information and specifications of a product.

- To prevent accidents and injuries, be sure to disconnect the power plug before installing a product or giving necessary services.

## Air purifier | User manual ⋮ Components

### Product

\* The appearance or components of a product may differ depending on a model.



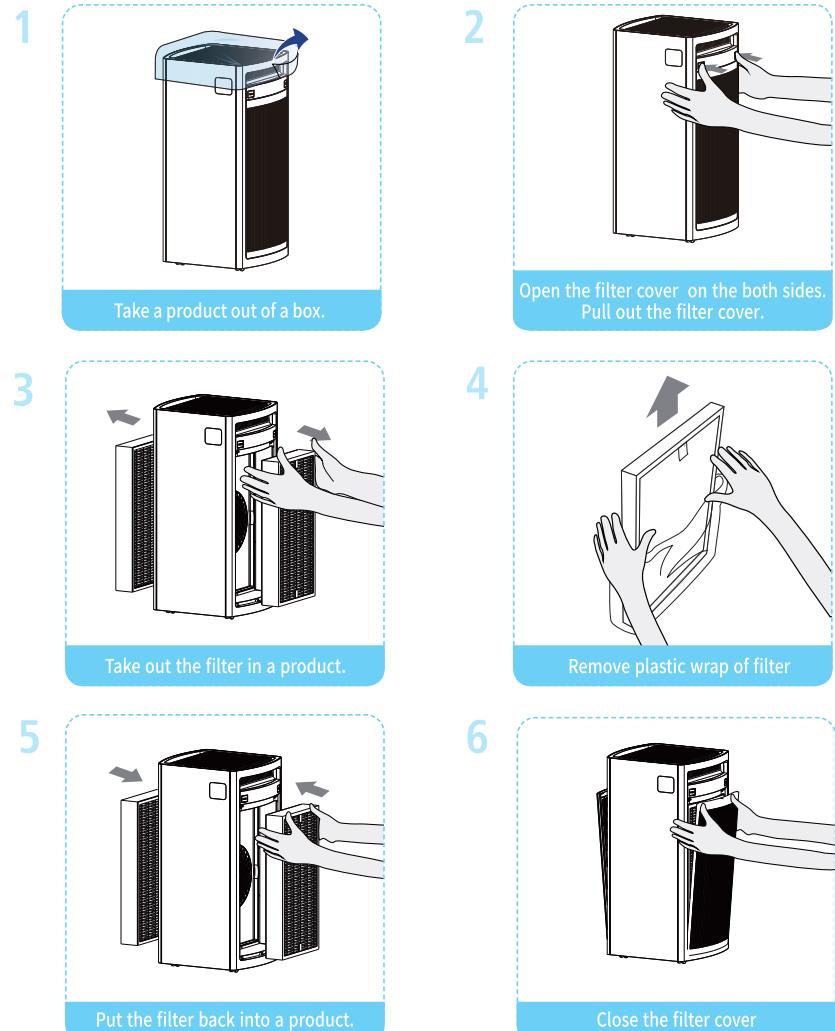
### References

- The functions and specifications (including an appearance) of a product may differ depending on the model.
- Remove the plastic bag of a filter before using a product. (Careless handling causes the trouble of a product.)
- The sensors are located on the back of a product.
  - PM2.5 (ultrafine dust) sensor
  - Gas (odor) sensor

## How to install a filter initially and replace it

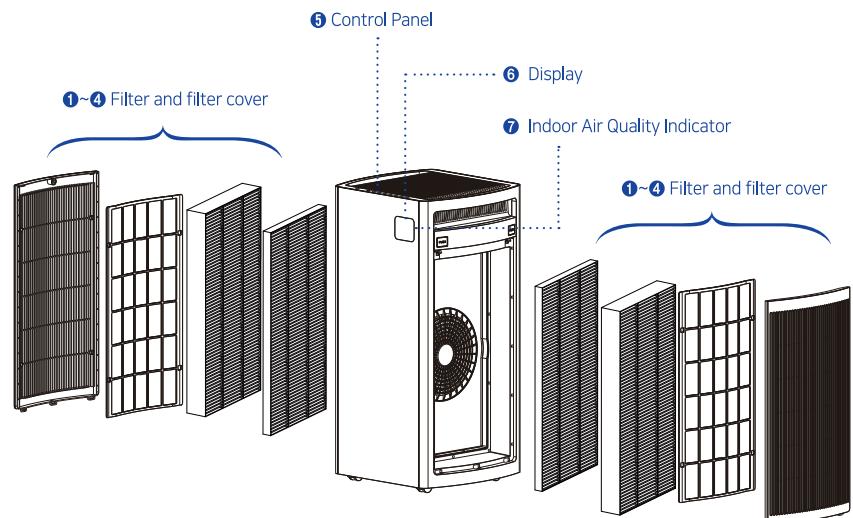
Remove the plastic wrap from filter

※ Careless handling may cause the malfunction of a product.



## Component-specific name and function

※ The appearance and components of a product or the performance of HEPA Filter may vary by a model.



- |   |                                 |
|---|---------------------------------|
| 1. Filter cover                               | 5. Control Panel                |
| 2. Pre filter                                 | 6. Display                      |
| 3. HEPA filter                                | 7. Indoor Air Quality Indicator |
| 4. Deodorization<br>(activated carbon) filter |                                 |

## Control panel and indications

## Display and indications



### Power button

You can start or stop an operation.



### Auto

Fan speed can be automatically adjusted according to Indoor Air Quality Whenever Auto button is pressed, Auto → Manual sequence is repeated.



### Sleep

LED Display off and operating low speed.



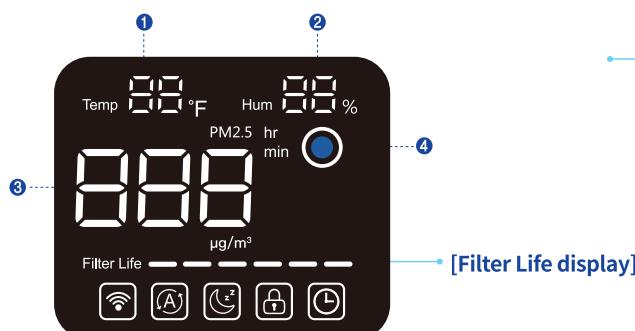
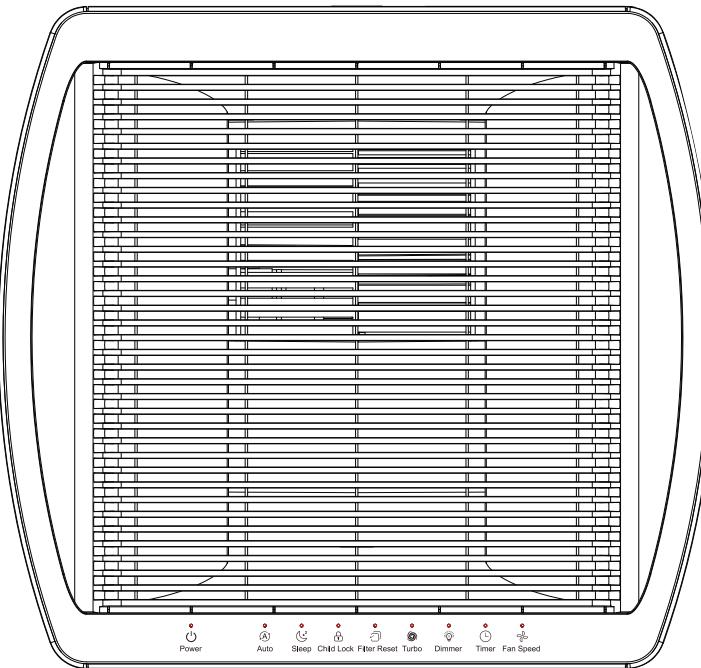
### Child lock

lock the buttons on a control panel.



### Filter Reset

After filter replacement, reset filter life



### [Current status display]

- ① Temp. (Farenhite)
- ② Humidity
- ③ PM2.5 , Fan Speed or Timer
- ④ Air Quality Indicator



### Turbo

A setting can be made to the highest fan speed. Set maximum fan speed operating



### Dimmer

You can make an operation in the current state, but you can turn off both of Control Panel and Display.  
Turn off the light of 'Control panel' and 'Display'



### Timer

Timer(Off) function is available. Set 'Turn off Time'



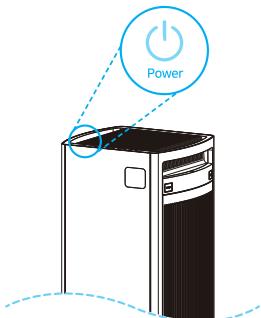
### Fan speed

Set fan speed

### [Icon display]

① Auto	A display is made when Fan Speed is controlled automatically. Auto indicate when Auto mode is operated
② Child Lock	A display is made when the button on a control panel is locked. Child Lock indicate when Child Lock is activated
③ Timer	A display is made when Off Timer is set. Timer indicate when timer is set to turn off
④ Sleep	Sleep indicate when sleep mode is On. ** After 10 seconds, Display light is off.
⑤ Dimmer	As a product is operated in the current state, a display is made when both of Control Panel and Display are turned off. In keeping current operating mode, Control panel and Display lights are off

## Component-specific name and function

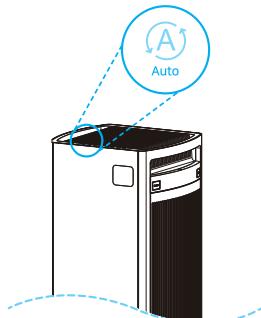


### Starting an operation

Press Run/Stop button to start an operation.

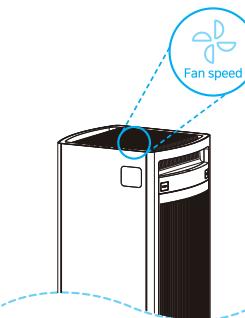
#### The matters to be recognized

When starting an operation, a dust concentration will be displayed after a sensor stabilization makes a progress (approximately 10-15 seconds).



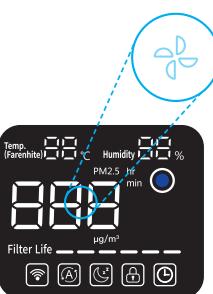
### Auto

The fan speed is controlled automatically according to the Indoor Air Quality



### Adjusting Fan speed

Press fan speed button. 1 → 2 → 3 → 4 → 5 sequence is repeated.



### Fan speed display

When you adjust Fan speed, Fan Speed level will be shown on the Display.

Displaying Fan speed for 3 secs, and then PM2.5 will be displayed.



### Turbo

Press Turbo button to set Maximum fan speed operating.

## Component-specific name and function

### Indoor Air Quality monitoring

Based on a dust concentration and a gas (odor), the general cleanliness will be displayed in 4 different colors. PM 2.5 and TVOC sensor(500S and 700 only) indicate Indoor Air quality at 4 colors

#### <Understanding Indoor Air Quality>

- The general cleanliness is displayed in four levels of blue, green, yellow and red according to the air pollution level based on a dust concentration and a gas (odor) concentration. The color showing the general cleanliness is determined based on the worst condition of either dust concentration or gas (odor) concentration.

Color	Status	Ultrafine Dust(PM2.5) ( $\mu\text{g}/\text{m}^3$ )	TVOC (500/700 only)
●	Good	15 or lower	< 30%
●	Average	16 ~ 35	30% ~ 50%
●	Bad	36 ~ 75	50% ~ 70%
●	Very bad	76 or higher	> 70%

#### <Indoor Air Quality Monitoring on the Display>

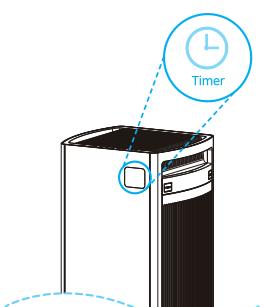
Ultra Fine dust: display ultra fine dust level by PM2.5

#### The matters to be recognized

- PM2.5 level on the display may differ depending on a location or the indoor environment.
- Indoor Air Quality level can be changed by any odor-causing products (such as cosmetics and fragrances) and sprays or smokes.
- Indoor Air Quality level may change in the places where dusts may occur, such as beds, sofas and carpets,
- This product may not react to some gases (smells). And, as for Indoor Air Quality level , it may be different from the products of other companies and the measuring instruments.

### Setting Timer

Press Timer button to set 'Off'. Once setting timer, Timer icon is displayed.



### Setting Sleep mode

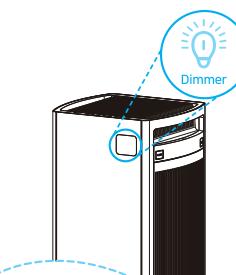
In Sleep mode, fan speed set to low speed. And Display and control panel Off.  
After 10 seconds, 'Sleep' button and icon light Off.  
Press any button to cancel 'Sleep mode'.



### Setting Child Lock

You can lock the buttons on a control panel.

Press and hold Child Lock button for 3 or longer seconds during an operation.  
Child Lock icon will be shown on the Display and the buttons will be not operated.  
To release Child Lock, press and hold Child Lock button for 3 or longer seconds.



### Setting Dimmer On/Off

In keeping operating mode, Display and Control panel light can be Off.  
Press Display button for 3 seconds.  
Only Display and Control light Off  
Press any button to release Dimmer mode

## Maintenance and cleaning

※Turn Off and Unplug before cleaning a product. Do not assemble a product in the state in which the positions of filters are changed.

### Cleaning Product

-Remove dusts from Product with a soft dry cloth. In particular, be careful not to let dusts enter the air inlet and outlet.

10%.The gauge of a filter life decreases as it is used. And, only one, which is left, flickers.

- Please, use service center or a specialized agency to replace a filter.

Replace a filter as follows. The recommended filter replacement cycle is six months.

①Separate the cover of a filter from the both sides of a product. Grab a groove on the cover of a filter and pull it forward gently.

②Take out a filter from in a product.

③Peel off the plastic bag from a new filter and put the filter back into a product.

④Reassemble the cover of a filter on the both sides before a use.

⑤Press Filter Replacement button for 3 or longer seconds to reset the life of a filter.

### Sensor cleaning

As PM2.5 (ultrafine dust) sensor detects the degree of a contamination of a fine dust and a large dust, the sensor lens should be cleaned regularly. Recommended cleaning interval is 1 to 2 months.

①Use a flat head screwdriver to open the protective cover of a sensor on the back of an air purifier.

②Open the protective cover of a sensor and take out the sensor.

### Cleaning Pre filter

Clean Pre filter by using a vacuum cleaner or a cleaning brush. Mainly clean the front part of Pre filter where a lot of dusts accumulate.

- When using a vacuum cleaner: Clean the inlet, to prevent Pre filter from being damaged, as the inlet is located about 0.5 inch away from it.

- When using a cleaning brush: Use a soft brush to clean the Pre filter in the horizontal direction. Be careful not to damage the Pre filter when cleaning it in the vertical direction.

### Replacing Hepa Filter / Deodorization (Activated Carbon) Filter

Filter replacement cycles vary depending on the environment for using a product.

Replace a filter in the following cases.

- When a filter is damaged.
- When the function of a filter is much degraded.
- When smells and odors from cigarette and food do not disappear.

- When a filter life, which is displayed, is under

#### The matters to be recognized

-If the remaining life of a filter is 10% or more, . Filter reset is not enable.  
In this case, use current filter more and then replace.

#### The matters to be recognized

Do not clean a sensor with any matter other than water. Careless handling may cause a trouble.

## Checklist before reporting a trouble



### Product abnormality information

Please, check the following before calling the Service Center (TEL: (562) 921-3330).

Problem	The matters to be checked	Corrective measures
It doesn't operate at all.	Is the power cord unplugged? Is a filter installed correctly?	Plug it into the electric outlet correctly. Install a filter correctly. Install the cover of a filter correctly.
Low fan speed and noise .	Have you removed the protective vinyl of a filter? Are dusts accumulated in the Pre filter? Are dusts accumulated in a filter?	Remove the protective vinyl of a filter and operate the Product again. Clean the Pre filter well. Replace the filter.
The filter replacement Indicator turns on continuously.	Did you press the filter replacement button after replacing a filter?	Press the filter replacement button to set Filter Life to the full level.
Abnormal odors are caused from the air outlet.	Is it a new product just taken out of a box? Has a filter been used for a long time?	The odor of a new product will disappear after some time. Replace the filter.
A fine dust concentration is continuously high.	Is a product used with a humidifier? Are foreign substances found in a sensor? Is the air from outside entered continuously into the place where a product is installed?	Do not use the product with a humidifier. Clean PM2.5 (ultrafine dust) sensor. In the environments where the outside air is entered, the value of a fine dust concentration can be continuously high.
The buttons on a control panel do not work.	Is an indicator (Child Lock) turned on the Display?	Turn off the indicator (Child Lock).

## Warranty Information

### Terms & Policy

AT North America warrants all products to be the best quality and service for 1 year, effective from the date of purchase to the end of the Warranty period. Warranty lengths may vary between product categories.

If you have any questions or concerns about your new product, please contact our helpful Customer Support Team.

