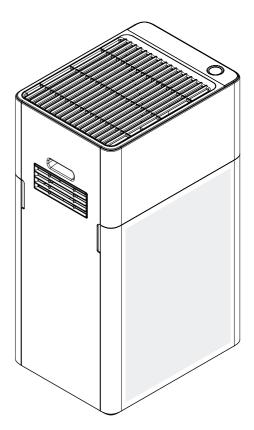
HA 700 Air purifier





User manual horizon

HA 700 Air purifier

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Order to safely and use rightfully please read this manual carefully. Please keep this manual {Product warranty is included}.



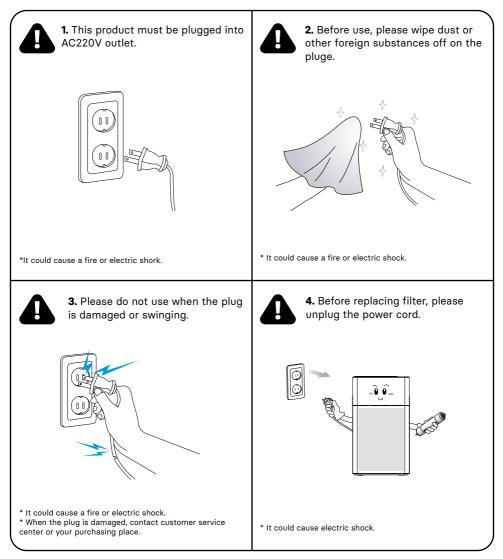
1. PRECAUTIONS

Read carefully following precautions to prevent unpredictable dangers and damages.

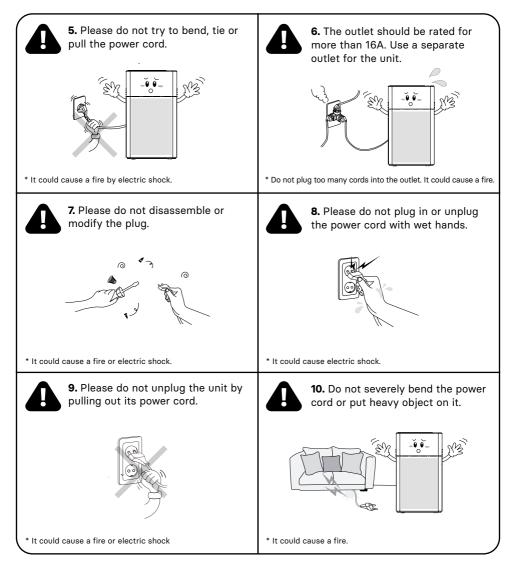


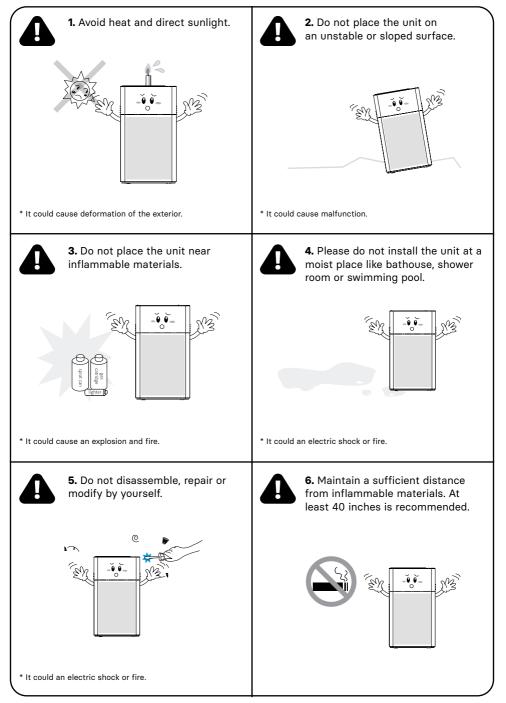
DANGER: If not observed, serious injury or even death could occur. **WARNING:** If not ovserved, Slight injury of property damage could occur. **CAUTION:** If not ovserved, Slight injury of property damage could occur.

PRECAUTIONS FOR POWER SUPPLY

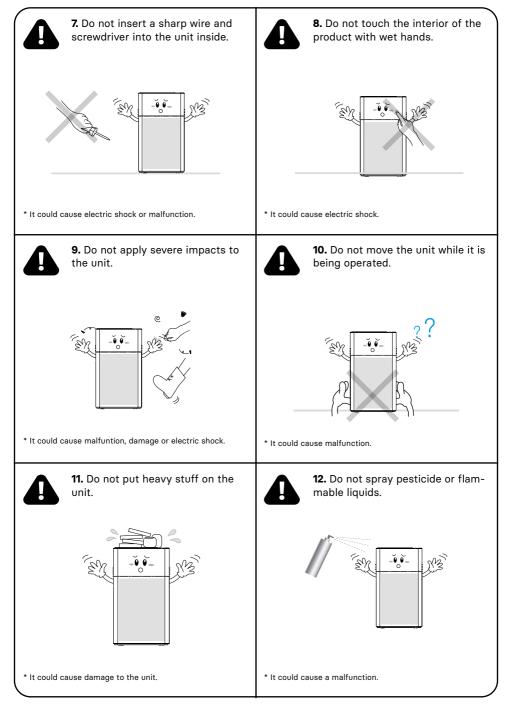


PRECAUTIONS FOR POWER SUPPLY



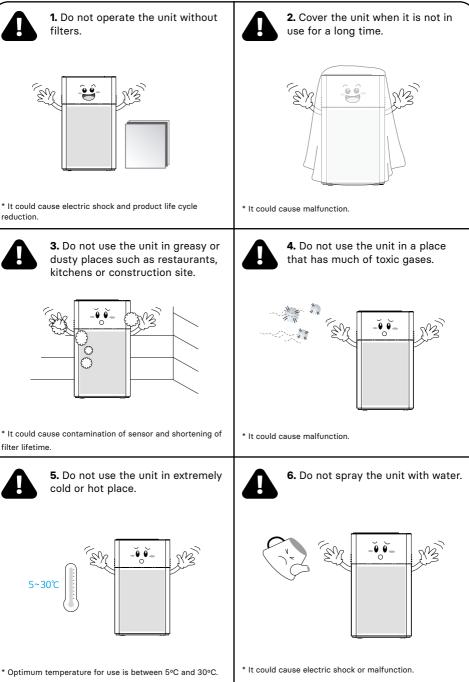


PRECAUTIONS FOR INSTALLATION

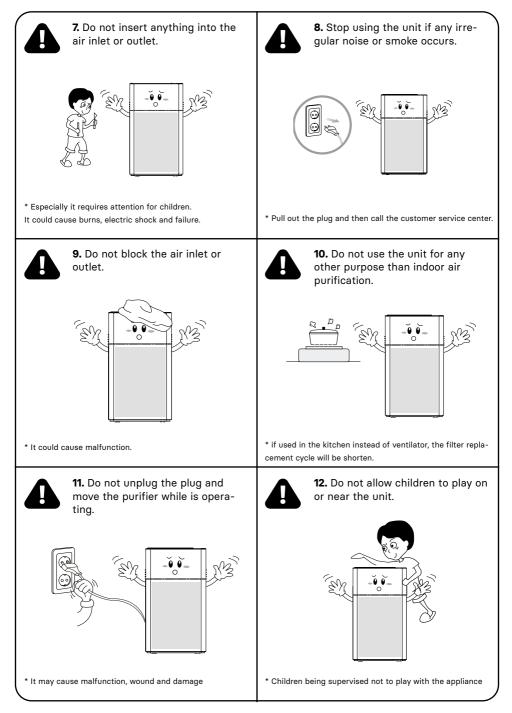


PRECAUTIONS FOR USE





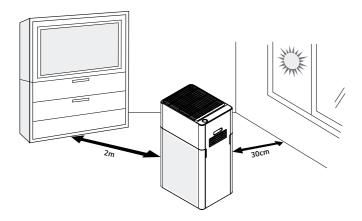
PRECAUTIONS FOR USE



SAFE PLACE FOR INSTALLATION

- Room without the direct sunlight
 - It may cause a malfunction
- Do not locate in humid and unventilated room
 - It may cause fire and shock
- Keep the distance with any electronic device.
 - Electromagnetic from other devices can cause a malfunction.
- Place on flat hard floor

If not it may cause noise and vibration. Place the unit at least 30cm away from the wall.

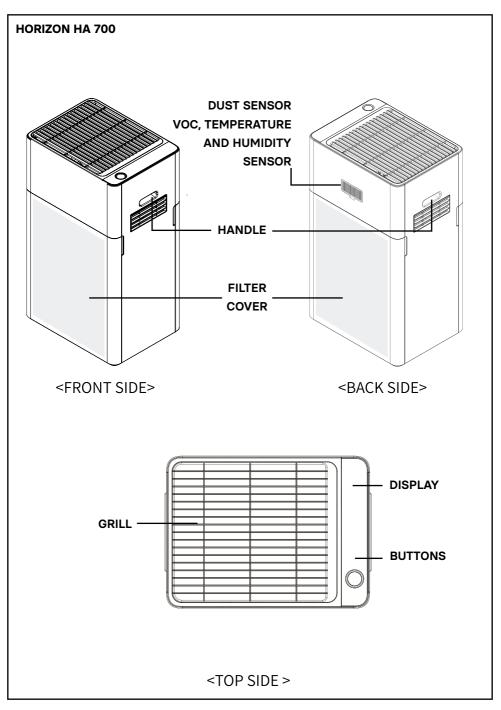


KNOWLEDGE OF PRODUCT

- Always operate with filters. If you smell the unpleasant smell, please replace the filter. This air purifier cannot purify air without filters.
 - If the filter is crummy it decrease in performance. The exterior is extremely dirty and smell please replace the filters. Also when the air volume is decreased.
- Do not use the purifier fir reduce odor during cooking.
 - This kind of odor will shortens the filters lifepan.
 - This kind of odor can be stuck into ultrafine particle free filter. If so please replace the filters.
- While operating purifier, please close the window and door.
 - If the window and door is open, the air purifier will be less effective.
 - Toxic gas unable to purify: Carbon monoxide (CO)
- Ventilate the room periodicaly.

When the purifier is operated with dorrs close, the density of carbon dioxide will increase. This air purifiers' ventilation alarm is on please turn off the purifier and venitlate the room and restart the purifier. (Purifier cannot purify carbon dioxide)

2. NAME OF EACH PART



11

3. CHARACTERISTIC

• Large capacity purifier

This purifier capable to purify large applicable area such as office, living room, public place.

Simple design

With simple black and white color design, this purifier can be match with any room.

• Double side inlet and multi-direction outlet

Order to have double side inlet filters is attached in both front and back.

• Four stage of filters

- Pre-filter: It filters out the big particle dust (ex. hair, pollen...)
- Anti-allergy filter: It filters out influenza and daily odor. Also, deactivate sulfur atom bounding to destroy allergy ingredient.
- Deodorization-filter: It filters formaldehyde and daily odor to keep pleasant environment.

-Ultrafine particle free filter: Filters out the small size particle such as bacteria, tobacco smoke, mold...

Dust sensor

This purifier have dust sensor that can detect the PM2.5 and it display density by number.

• voc

It detect the odorous substance TVOC (TOTAL Volatile Organic Compounds) and send the information and display on connected smart phone.

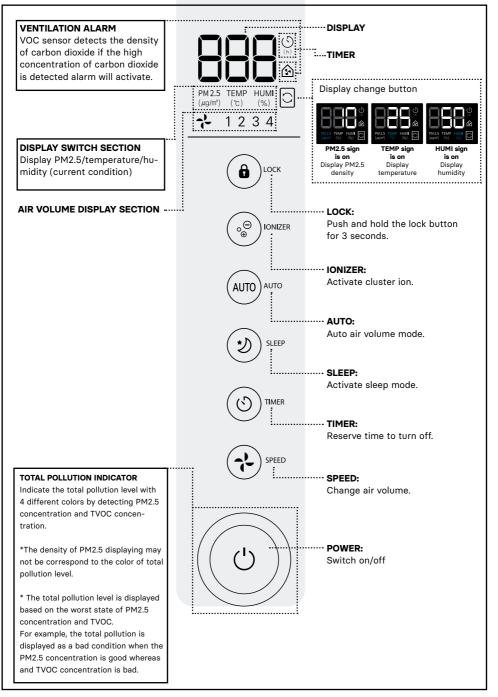
• Temperature/humidity sensor

It detects the temperature and humidity so the user can monitor the condition.

Cluster ion generator

It deploys hydrogen ion (H+) and oxygen ion (O2-), combine with moisture and ion form the Cluster ion. Cluster ion forms the OH radical when it combines with the hazardous substance. OH radical has the strong oxidative power, it destroys the hazardous substance.

4. CONTROL/SIGNS



5. USER INSTRUCTION



For your safety and proper use of the product, please read and understand the following before use.

1. POWER BUTTON

 \cdot It turns on/off the power

• Air purifier will start with buzzer sound.

- Air volume will ser at 1

- While first 30 second pollution display section color of light change and will reset the Dust/VOC sensor. In this stage, PM2.5 density will not display after 30 seconds total pollution rate and PM2.5 will display on purifier.

2. AIR VOLUME BUTTON

• Each time the user push the button air volume will change as this order.

stage1 > stage2 > stage3 > stage4 > repeat.

• Current air volume stage will display next to the fan sign by numbers.



3. TIMER BUTTON

• Reserve time to be off. Timer LED light will be on, and it will display set time.

Each time user push the button it will change set time in this order.

1H > 2H > 4H > 8H > 12H > OFF > repeat.

- When the timer is set the set time will display after 10 second, also user can check the set up with timer LED light.
- Purifier will turn off after set a time.

4. SLEEP MODE

• It set the sleep mode. Air volume will decrease less than stage1, display light will get dimmer, and buttons' buzzer sound will be off.

- Re-push the button will deactivate the sleep mode.
- Can use the timer during sleep mode by just pushing a timer button.

5. AUTO BUTTON

• It set the automatic air volume mode. It automatically changes the air volume by comprehensive data from the VOC sensor and Dust sensor.

It activate with 3 stages.

Good (blue) - stage1, Normal (green) - stage2, Bad (yellow)/Very bad (red) - stage 3.

6. ION BUTTON

• It activates the cluster ion generator, ion sign will lit up.

5. USER INSTRUCTION

7. LOCK BUTTON

- It activates lock mode. Lock sign will lit up, the buzzer will sound.
- When the lock mode is on, other functions button will not function.

8. DISPLAY CHANGE BUTTON

- Each time the user pushes this button display will change as this otrder.
- PM2.5 density > temperature > humidity > repeat.
- PM2.5 volume: 5~999µg/m³ displayable.
- Temperature: 0~100°C displayable
- Humidity (relative humidity): 0~100% RH displayable.

RATE OF ULTRAFINE DUST

What is PM2.5?

Dust particle size is less than 2.51m. According to research, smaller particle affects the human health. So all the developed countries instructed since the late 90's.

Since July 2017 Republic of Korea change environment standard; 15µg/m³ yearly to 35µg/m³ daily.

- The density of PM2.5 start with 5 till 999 display single decibel.

- The density rate of PM2.5 is informed from the sensor manufacturer database.
- The stage of PM2.5 density is informed form the minister of environment PM2.5 forecast.
- The stage of PM2.5 density informed by a PM2.5 forecast from the minister of environment.
- The density of PM2.5 can differ indoor and outdoor.

- HORIZON air purifier's rate of PM2.5 a density might differ than other brands air purifier's and measuring instrument.

-The rate of PM2.5 density can be affected by surrounding and air flow.

- The rate of PM2.5 density can be affected by environment (Roadside, factory, construction site)

- The dust storm, a PM2.5 alert is activated air is keep came from outside, the rate of density might continuously increase.

What is TVOC

VOC (Volatile Organic Compounds) is gas of liquid organic compound evaporates at a low temperature. VOC and Nitrogen oxide photochemical reaction occurs it porduces ozone and photochemical oxidant. It is carcinogencity particle similar to photochemical smog, benzene extremely harmful to the human body. Also, styrene and most VOC classified as particle cause stink odor. TVOC (Total Volatile Organic Compound) is named all kind of VOC gases, its used as a guideline for Environmental diagnosis.

 \bullet VOC and CO2 density measures might differ from real measures. About 5 minutes after Power is on.

• Products occur odor such as perfume, air freshener, detergent might effect TVOC measures, do not place the purifier for long time place occurs odor.

• If the sensor close to the product occurs odor might display the total pollution level continously high.

• HORIZON air purifier follows German Federal Environment Agency's TVOC pollution rate lighting colors. (The Republic of Korea do no have any guideline)

6. HOW TO REPLACE THE FILTER

PRECAUTIONS ON USING FILTER

1. Precautions for using filters

- Make sure to use Wonbong genuine filters.
- Contact service center to purchase filter.
- Pleace follow the instruction for replacing filter.

2. Precautions for replacing filter.

• Make sure to disconnect the power cord before replacement.

• Make sure to remove vinyl of the new filter. If you use the air purifier with the filter covered by vinyl, a warpage or a fire could happen due to the unusual sound and overheating of the motor.

• No returns are allowed if you remove the packing of the set of the new filter.

FEATURES OF FILTER

1. Pre filter

Traps large particles in the air such as dust, fur, pollen, and so on.

2. Anti-allergy filter

It filters out influenza and daily odor. Also, deactivate Sulfur atom bounding to destroy allergy ingredient.

3. Deodorization-filter

It filters formaldehyde and daily odor to keep pleasant environment

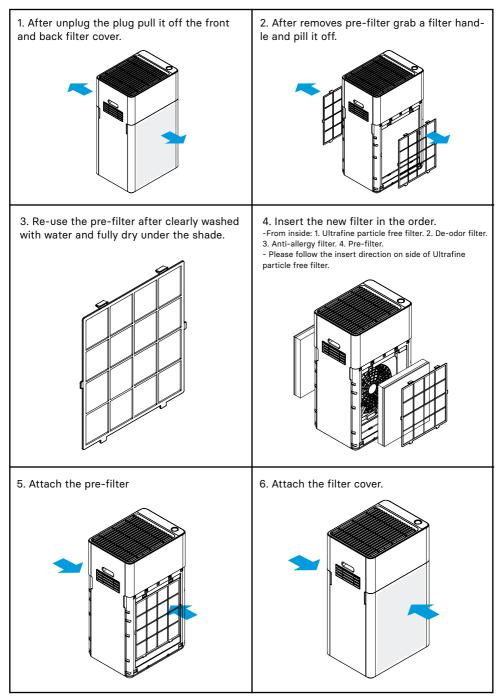
4. Ultrafine particle free filter

It filters out the small size particle (0.3um) such as bacteria, tobacco smoke, mold, and etc...

FILTER LIFESPAN

	1 STAGE	2 STAGE	3 STAGE	4 STAGE
FILTER	Pre-filter	Anti-allergy filter	Deodorization filter	Ultrafine particle free filter
TIME FOR CHANGE	Semi-permanent	About a 4 month	About a year	About an 8 month
CLEANING	Clean with water (once a month)	Cannot be clean Chage the filter	Cannot be clean Chage the filter	Cannot be clean Chage the filter

6. HOW TO REPLACE THE FILTER



7. HOW TO CLEAN PRE-FILTER

• Every once a month the pre-filter carefully with water.

• Do not use benzene, alcohol, volatility detergent adn hot water (over40°C) It causes the damages and discolorarion.

• The term of cleaning can be change by usage and surronud air quality.

HOW TO CLEAN EXTERIOR

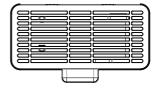
- Wipe with dry cloth.
- Every once or twice a month clean the back and front filter covers with dust cleaner or vacuum.

 \bullet Do not use benzene, alcohol, volatility detergent and hot water (over 40°C) It causes the damages and discoloration.

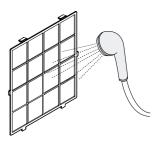
• Do not use water, thinner or any volatility liquid.

HOW TO CLEAN DUST SENSOR

- Unplug the cord before cleaning.
- Open the dust sensor cover and carefully wipe the lens with Q-tip.
- If the foregin partials (such as dust) is around the sensor, the rate of pollution might get disrupt.
- Clean the dust sensor every 6 month. Cleaning term can be change by pollution and amount of use.







8. SOLUTION TO COMMON PROBLEMS

Check the list below before report failure.

If still causing a trouble after following the list below please contact Service center of Retail store.

ISSUE	CAUSE	SOLUTION	
	Is it power plug fully plugged?	Re-plug the power plug correctly	
The purifier is not working	Is it blackout?	Check the power state	
	Is it filter cover is not attached?	Attach the filter cover correctly	
AUTO mode	Is it power plug is fully plugged?	Plug the power plug correctly	
doesn't work.	Di you select the AUTO mode?	Push the air volume button to select AUTO mode	
Total pollution	Did you clean the sensor?	Clean the dust sensor.	
level sign is kept lighting red	Is something causing odor near purifier?	Relocate the purifier. If still causing a trouble please contact the service center.	
Making a loud noise and vibrate	Is it located on an uneven floor?	Relocate the purifier on the evenly flat floor. (All the legs need to touch the floor)	
Power plug and the power outlet is overheating	Is it power plug is fully plugged?	Re-plug the power plug correctly	
Funny smell	Is it any smoke and smelly substances is roung?	Clean the pre-filter and change the other filter.	
ls not puryfing the air	Is it compacted with dust or air outlet is a block with any objects.	Clear off the objects on the outlet	
Unusual sign	Specific sign part is lighting up and makes "Ding Ding" sound	Attach the filter cover correctly. If it kept making sound please contact customer service.	
Unusual sound	It makes scratiching noise	When the culster ion generator is ope- rating it makes the scratching noise.	

9. SPECIFICATIONS

- PRODUCT NAME: HORIZON air purifier
- MODEL: HA700
- POWER RATING: 220-240V/50Hz
- SIZE: 440(W)x 330(D)x 767,5(H) mm
- WEIGHT: About 14kg
- POWER CONSUMPTION: 68W

10. WARRANTY

RODUCT				
DATE OF MANUFACTURE				
ATE OF PURCHASE				
USTOMER'S NAME				
EALER'S NAME				

WARRANTY GUIDE

- 1. The warranty period is 12 months from date of purchase.
- 2. The product will be repaired at cost in following cases:
 - After exoiry of free warranty period
 - Malfunction of the unit caused by careless or abnormal use
 - Malfunction of the unit caused by natural disaster
 - In case of lost of this manual

NOTES

HA 700 Air purifier

