

BROAD ELECTROSTATIC PURIFIER

Eradicates bacteria, air pollution and pollen,
A must-have for hospitals and schools



BROAD AIR PURIFIER SAVES OUR FAMILY FROM POLLUTION

Fewer coughs, colds and flu

Smaller chances for rhinitis, laryngitis, asthma and pneumonia

The risk of cancers, diabetes and other critical diseases can be reduced drastically

SUPER PURIFICATION EFFICIENCY

Electrostatic air purification technology is at the top of the pyramid of air purification technologies, and its filtration efficiency is incomparable to any other physical filtration methods (paper filter, e.g.):

- Static electricity helps to absorb infinitely tiny particles
- 6000V high-pressure static electricity clears off microbes such as bacteria and pollen

However, two worldwide dilemmas must be faced:

1) The capacity of static electricity changes as per air humidity level. Excessive ozone will be released at high humidity, while purification efficiency will be reduced at low humidity. BROAD unique patented technology of constant current and voltage has successfully solved this problem

2) The electrostatic tungsten filament and the electrode aluminum plate will get short out when meeting fiber or mosquitoes in the air, annoying crackles will be heard, and the tungsten filament will even get burnt. BROAD patented technology of independent resistor circuit for every single tungsten filament has solved this problem

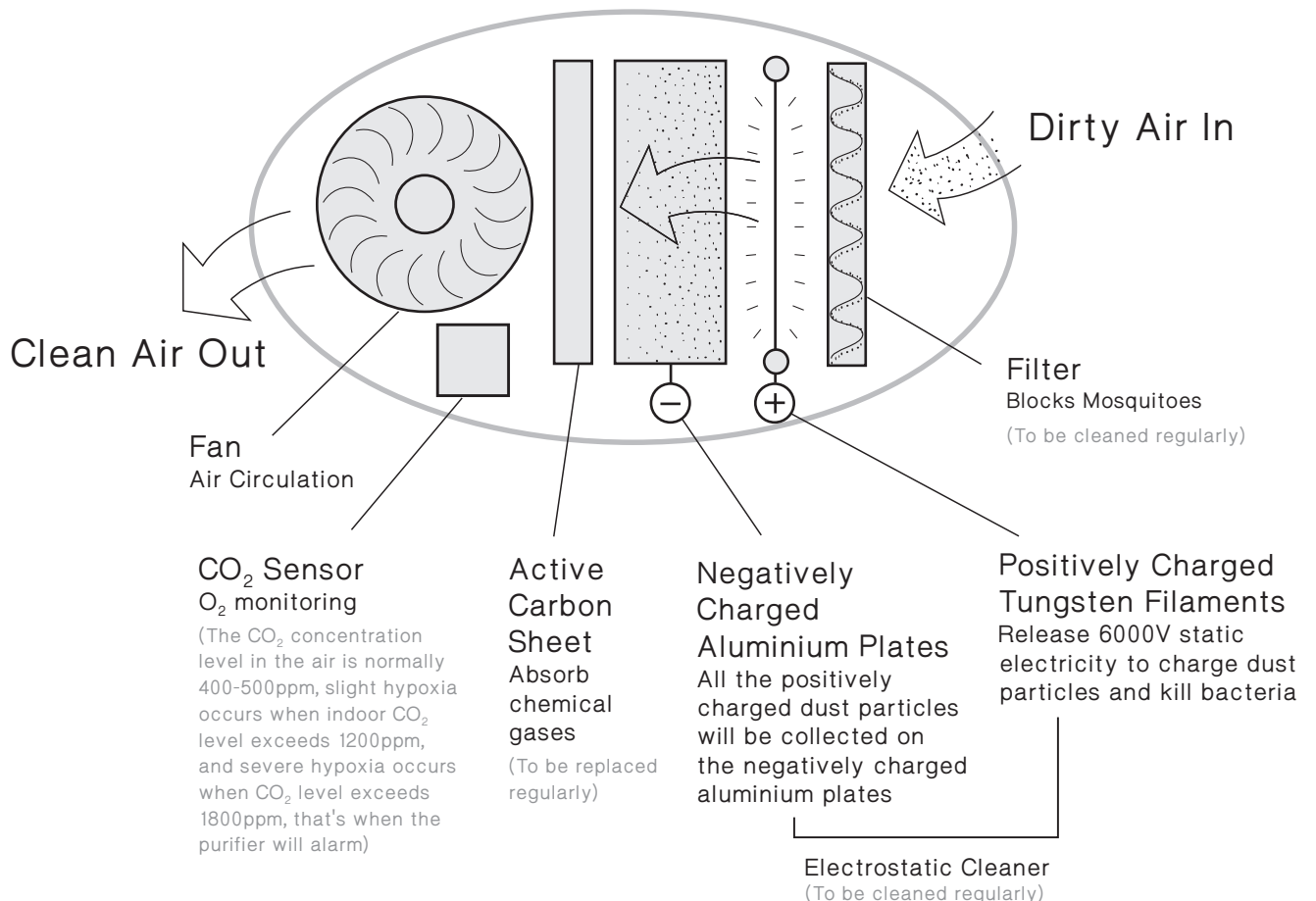
This is the reason why BROAD electrostatic air purifier is the only electrostatic air purifier that has been selling at large-scale globally since 2007

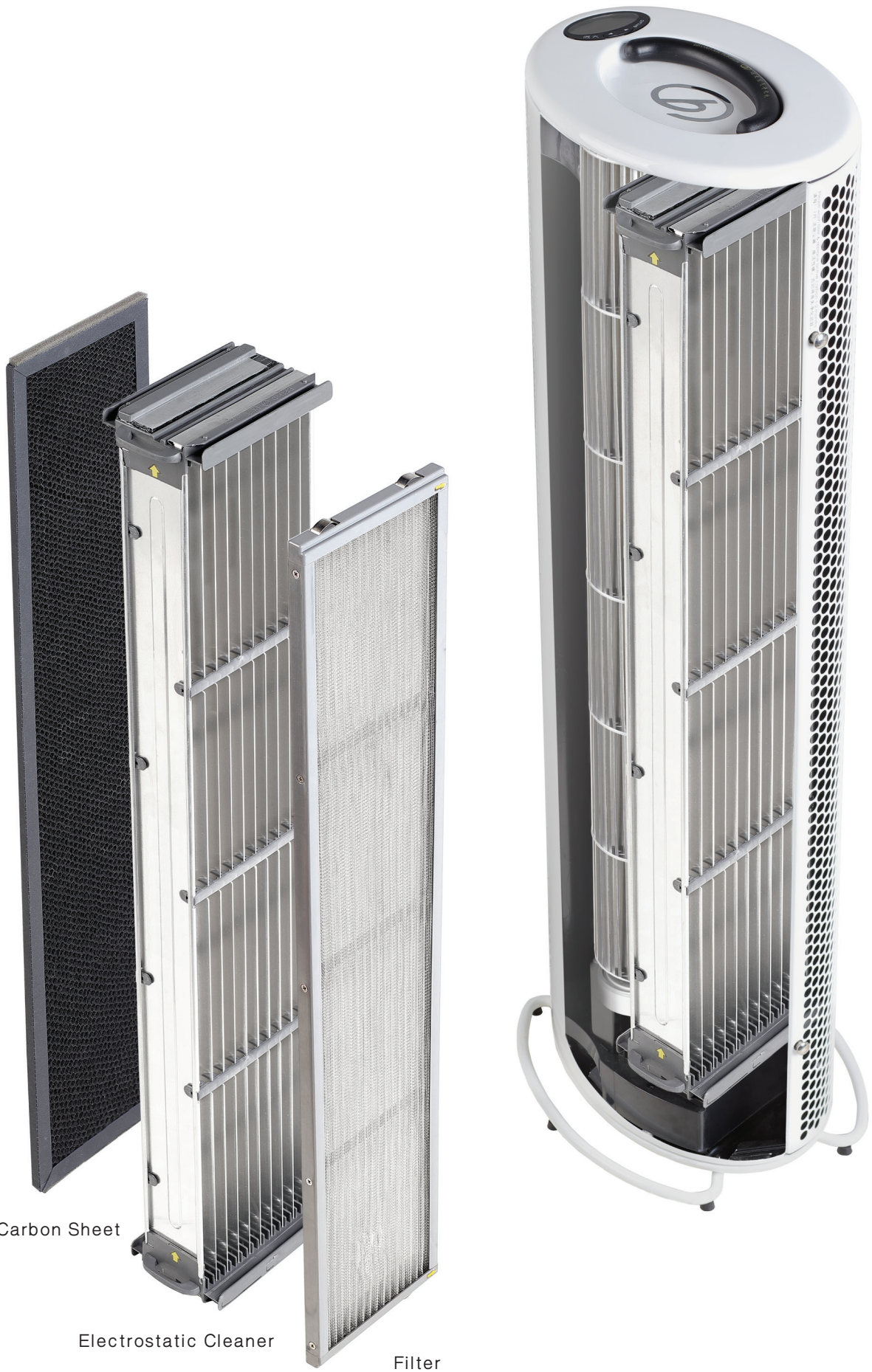


FUNCTION

BROAD Air Purifier is the only product with four functions in the world — **Electrostatic Dust Cleaning, Electrostatic Bacteria Killing, Formaldehyde Eradication and Oxygen Deficiency Monitoring** (BROAD patented)

- **Electrostatic Dust Cleaning:** Tungsten filaments constantly release high voltage static electricity and charge all dust particles with positive charge, which will then be absorbed by negatively charged aluminum plates. Electrostatic cleaner can filter infinitely tiny particles (smaller than PM2.5)
- **Electrostatic Bacteria Killing:** Tungsten filaments release 6000V static electricity to kill bacteria and virus instantaneously, and prevent the spreading of various airborne diseases
- **Formaldehyde Eradication:** The active carbon sheet absorbs formaldehyde, benzene, nicotine and other types of VOC
- **Oxygen Deficiency Monitoring:** The CO₂ sensor monitors the indoor CO₂ concentration level to alarm customers with indoor oxygen deficiency





Active Carbon Sheet

Electrostatic Cleaner

Filter

USE & WASHING TIPS

BROAD air purifier will start to run just by plug-in. It's appropriate to work all the year around due to low power consumption (more detailed information can be seen on the product parameter). It can be turned off when you are on business travel

To keep the best air purification, the electrostatic cleaner needs to be washed when it's covered by dust (thickness 1.5mm). The washing is very simple, and it only takes several minutes to wash by using ultrasonic cleaner or detergents (the cleaner must be dried after washing)

Active carbon is a consumable material (to be replaced every 1-2 month). It's not expensive and can be supplied life-long

You can also entrust BROAD service department with the washing and maintenance work

You will have mixed feelings when witnessing the ink-like waste water after washing. How dirty the air is and how lucky our family is!



FILTRATION EFFICIENCY TESTING

1. Use cardboard or plastic sheet to shelter the large part of the air outlet, and make sure that unfiltered air doesn't leak in from the air outlet (actually, there will be a certain amount of mixed air inevitably)
2. Aim the detecting port at the air outlet precisely and detect the particle data after purification (use BROAD Air Monitor or other dust detecting device)
3. Aim the detecting port at the air inlet precisely and detect the particle data before purification. Purification efficiency=(data before purification-data after purification)/data before purification
4. Normal filtration rate for RM2.5 is $\geq 95\%$ (considering the mixed dirty air, actual filtration rate has reached 99%), otherwise the cleaner needs to be washed

ABOUT OZONE

1. Electrostatic cleaner will release trace amount of ozone which can kill bacteria and make the air fresher. When sunlight is absorbed by plant for photosynthesis, it will produce ozone as well. People could smell a scent of ozone from bed sheets and clothes in the sun, which is the so-called sun smell
2. Ozone is made up of three oxygen molecule, which cannot stay in human body and brings no long-term harm. For rooms without ventilation for a long time, the smell of ozone will be enhanced. Under such a circumstance, we should open the window
3. According to international regulation, ozone concentration of less than 0.05PPM is normal

ABOUT CRACKLES

1. There may be crackles when fiber or mosquitoes enter the electrostatic cleaner, but it is harmless to human body and people won't get electric shock since the current is less than 1mA
2. Frequent crackles can warn us that the cleaner is probably full of dust and needs to be cleaned



Take out the electrostatic cleaner



Use ultrasonic cleaning apparatus to wash
(can be provided by BROAD)



or use detergent to wash (commercially available)