



## Air Cleaning & Sterilizing System

Product information

# Air-Stel

7 steps of cleaning & sterilizing system

Destroys all kinds of microorganisms and completely eliminates dust, cancer causing agents, allergic diseased agents and offensive odours by seven-steps system.



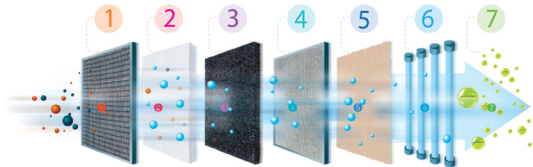
### Technical Specifications:

- Power Source: AC 220V / 60Hz
- Dimension: 850 X 450 X 350(mm)
- Weight: 24 KG
- Noise Level: 17dB
- Color: Silver, Blue, Red
- Area: 132m<sup>2</sup> / 230m<sup>2</sup>

# Cleaning air? No Problem!

# Sterilizing air? No Problem at all!

Cleaning air ! Ventilating air ! Is it enough to help you breathe safely? Unfortunately, it does not remove pathogenic bacteria and infectious germs wafting in the air. Air-STEL removes and sterilizes completely all kinds of mold stores such as influenza, escherichia coli communis, staphylococcus, mycobacterium tuberculosis and vibrio comma-cholera, by the functions of 'Seven-Steps Cleaning System' and the-state-of-art 'UV Air Sterilizing System'



## 7 Steps of Sterilizing&Cleaning System

### Step 1

#### Antibacterial Pre-filter

Large particles of dust such as strands and hairy-dusts from pets, are filtered at this stage.

### Step 2

#### HEPA Filter

Most of dusts, acarus, mould, larger than  $0.3\mu\text{m}$ , are filtered up to 99.97% through HEPA filter, which means that only three numbers of particles out of ten-thousands can be passed through this filter.

### Step 3

#### Carbon Filter

Thanks to the functions of a strong deodorization and decomposition, carbon filter removes tobacco smokes, a smell of food and most of odors.

### Step 4

#### Silver Nano Filter

SN Filter coated with fined nanometer-size silver particles has a powerful sterilizing function. It removes again infectious germs, odors and cancer-causing agents that were not entirely filtered at the previous stages, and performs well in anti-allergy and antiviral.

### Step 5

#### Photocatalyst Filter

By a reciprocal action with U.V. lamp, this filter performs a mighty oxidation and reduction. Titanium Dioxide( $\text{TiO}_2$ ), photocatalyst agent, absorbs UV lights, and generates hydroxyl radical(OH) and oxygen ion( $\text{O}_2^-$ ). These OH and  $\text{O}_2^-$  adhere to cell-wall of bacteria, and oxidize/dissolve bacteria cells completely. Therefore, most of infectious germs and bacteria such as MRSA and O-157 are able to be sterilized.

### Step 6

#### UV Sterilizing System

Equipped with four 25watt UV lamp, it sterilizes efficiently escherichia coli communis, influenza, vibrio comma-cholera, staphylococcus and mycobacterium tuberculosis by 253.7nm UV rays, the most ideal wave length for sterilization.

### Step 7

#### The Negative Ion Generator

'CLUSTER  $\ominus$  ion generator', our patent technology of thirty years experienced medical technologies, generates large quantities of negative ions thus it feels fresh and comfortable as if you stayed around waterfalls in the forest. Toxic substances such as smokes, methane gases, ammonia are resolved into nitrogen, water molecular and carbon dioxide.