

# Air Purification Sterilizer

**YKJX-Y500**

*Bacterial and viruses inactivation rate > 99.9% to reduce the infection rate of the vaccination staff; can reach class 100000 cleanliness after continuously operating for 1 hour, and release healthy negative ions, providing clean air for users to experience forest air quality.*

### **Triple Disinfection:**

Plasma disinfection, ultraviolet + titanium dioxide photocatalyst disinfection, and nano-silver ion filtration layer disinfection together ensures bacterial and viruses killing rate of > 99.9%.

### **Two Kinds of Filters:**

Professional efficient filtration module plus honeycomb type activated carbon adsorbing mesh can realize a PM2.5 removal rate of > 99.9% and a methanol removal rate of > 95% after operating for 1 hour.

### **Fresh Air:**

Negative-ion generator can release healthy negative ions so that users can enjoy clean air like immersing oneself in a forest.



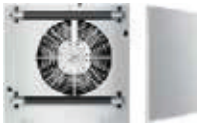
**Main Applications** School community hospitals, etc.

## Triple Ultra-Strong Air Purification



### Plasma Purification

When ionized by high positive and negative voltage, the air can produce a large number of positive and negative ions which will then neutralize with each other, releasing a burst of energy and killing the surrounding bacteria and viruses in an instant.



### Ultraviolet + Titanium Dioxide Photocatalyst Purification

The titanium dioxide photocatalyst will have photo-catalytic reaction under the bactericidal ultraviolet light emitted by the 254nm-wavelength dual UV lamps, producing highly oxidizing free hydroxyl groups and active oxygen to have the bacteria, germs, viruses and mold oxidized and decomposed.



### Nano-Silver ion Filtration Layer Purification

Nano-silver ions have broad-spectrum strong bactericidal and antibacterial properties as well as strong permeability and can kill the bacteria and viruses on the filter surface in a few minutes.



## Two kinds of filters can reach class 100000 cleanliness after operating for 1 hour



**Professional efficient filtration module:** Composed of front filter, pre-filter and high-efficiency HEPA filter screen; can realize a PM2.5 removal rate of > 99.9% after operating for 1 hour.



**Honeycomb type activated carbon adsorbing mesh:** Adopts coconut shell-based activated carbon, which has an adsorption area 65 times larger than that of an ordinary one, to absorb odors, and a professional cold catalyst to catalyze and decompose formaldehyde; can achieve a formaldehyde removal rate of > 95% after operating for 1 hour.

## Fresh Air

Negative-ion generator can release negative ions with concentration of over 3 million pcs/cm<sup>3</sup> so that the user can enjoy clean air like immersing oneself in a forest.



## Friendly Design



### Automatic monitoring of air quality:

Professional air quality monitoring module to display the air quality with light



### Filter/UV light replacement reminder:

Giving sound and light warning to remind the operators when service life of the filter module and UV light becomes no more than 10%; after replacement, the service life can be reset.



### Timed shutdown function:

Timed shutdown can be set to guarantee using security and extend the service life



### Freely optional intelligent air speed control and manual control:

Unique intelligent air speed function; can make adjustment automatically according to the air quality in position 1-5; also enables manual mode for position selection



### Automatic quiet mode switching function:

Professional photosensitive probe; can automatically switch to quiet mode when the light becomes dark, caring for the users' sleep quality



### Fault warning function:

Gives sound and light alarm when the fan or the UV lamp is in fault

| Model                | Voltage (V)  | Power (W) | External Dimensions (W * D * H mm) | Net weight (Kg) | Noise level dB (A) | Applicable volume (m <sup>3</sup> ) | Negative ion concentration | Clean class | Ultraviolet lamp life (h) |
|----------------------|--|-----------|------------------------------------|-----------------|--------------------|-------------------------------------|----------------------------|-------------|---------------------------|
| YKJX-Y500            | 220/50   | 100       | 439*229*735                        | 13              | ≤55                | ≤60                                 | 3*10 <sup>7</sup>          | 100000      | 6000                      |
| Disinfection effects | When operating for 90min, the killing rate of staphylococcus alba is > 99.9%. After operating for 120min, the average extinction rate of natural bacteria and viruses is > 95.4% |           |                                    |                 |                    |                                     |                            |             |                           |