



# ES-UD Line

Ultraviolet Air Purifier  
and Disinfectant



STERILIZATION



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# ES-UD Line

Ultraviolet Air Purifier and Disinfecter



Cod. **ES-UD60W**



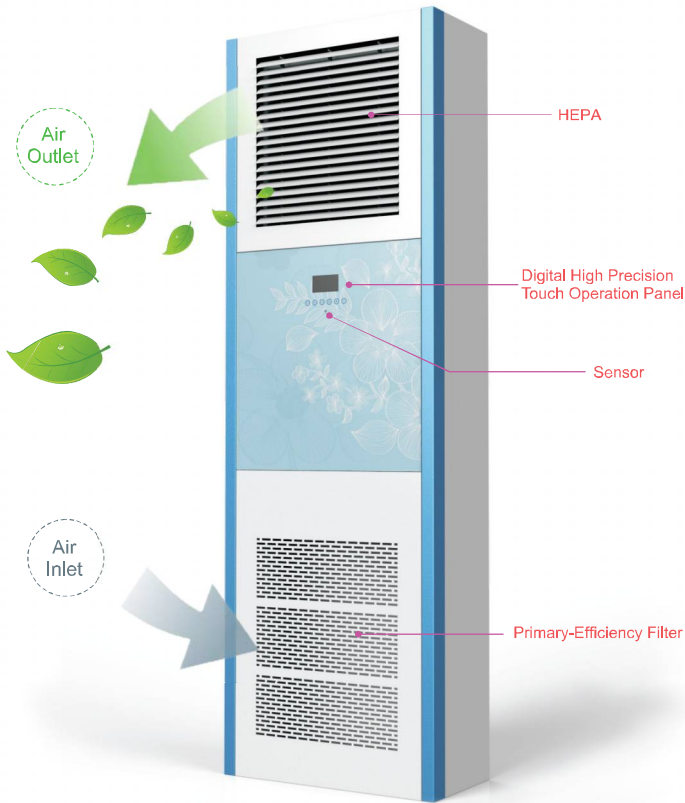
Cod. **ES-UD150S**



Cod. **ES-UD125M**



Cod. **ES-UD60C**



### Functions and Configurations

- Continuous purification and disinfecting
- The wind speed is adjustable – low, middle, high. Multi wind direction and airflow circulation
- Ultraviolet lamp with long operating life and high efficiency
- Controlled by microcomputer programme and work automatically
- Photocatalyst active carbon to kill bacteria and remove peculiar smell
- Automatically monitoring ultraviolet lamp fault
- Negative oxygen ion to clean and purify air
- Display the work time
- Remote infrared control and touch panel

### Scope of Application

- Hospital: Operating Room, Consulting Room, Ward, Maternity Room, Nursery Room, Premature Baby Room, CSSD, Burn Ward, ICU, etcII, III level environment.
- Pharmaceutical Factory: Sterile Room, Laboratory Room, etc..
- Food and Beverage Factory: Production Plant, Packaging Plant, Sterile Room, etc.
- Public Places: Meeting Room, Hotel, Entertainment Place, Office Room, etc..

### Advantages

- **Short Sterilization Time**  
After one hour working time, the indoor air quality can reach the requirement of II, level environment, and the bacteria colonies  $\leq 200\text{cfu/m}^3$
- **Multi Sterilization Mode**
- **Easy use**  
LCD (Liquid Crystal Display), Touch Panel, Infrared remote Control  
3 work mode optional: automatic, manual, timing system.
- **Intelligent Technology**  
Air quality sensor and dust sensor are applied to equipment, which can automatically inspect indoor environment and automatically function.  
Fault indication: the equipment can automatically inspect whether the fan, plasma generator and HEPA work normally.

### Technical Features

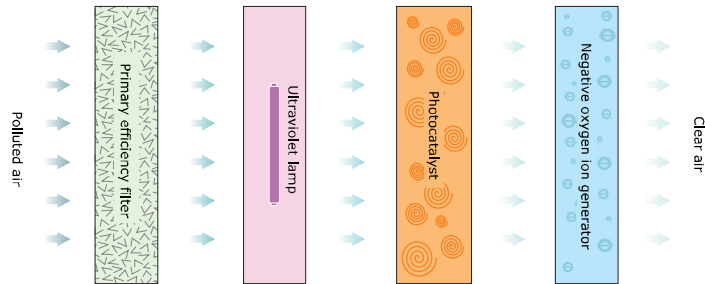
Model	ES-UD125M	ES-UD150S	ES-UD60W	ES-UD60C
Covering Space	125 m <sup>3</sup>	150 m <sup>3</sup>	60 m <sup>3</sup>	60 m <sup>3</sup>
Sterilization Results	$\leq 200 \text{ CFU/m}^3$	$\leq 200 \text{ CFU/m}^3$	$\leq 200 \text{ CFU/m}^3$	$\leq 200 \text{ CFU/m}^3$



## Work Principle

ES-UD Series Ultraviolet Air Purifier & Disinfecter is made up of primary-efficiency filter, centrifugal fan, high-intensity ultraviolet lamp, photocatalyst filter and negative oxygen generator.

Work Principle: Through the circulation fan and primary-efficiency filter, the big dust and dirt particles are removed. Then the air comes to the high intensity ultraviolet area and is irradiated by ultraviolet ray of 254nm, which can damage DNA construction of microorganism and kill the bacteria and viruses. Meantime, when the photocatalyst is irradiated by ultraviolet ray, it will finish the energy conversion, from luminous energy to chemical energy. In this way, the surface of photocatalyst has high ability of oxidation, which can oxidize organic compounds and mineralize inorganic substance, as well as kill bacteria and remove peculiar smell. Negative oxygen ion generator can purify the air.



## Scope of Application

**Hospital:** Operating Room, Consulting Room, Ward, Maternity Room, Nursery Room, Premature Baby Room, CSSD, Burn Ward, ICU, etc.. II and III level environment.

**Pharmaceutical Factory:** Sterile Room, Laboratory Room, etc...

**Food and Beverage Factory:** Production Plant, Packaging Plant, Sterile Room, etc...

**Public Places:** Meeting Room, Hotel, Entertainment Place, Office Room, etc...

## Advantages

### Multi-Filter

- **Primary Efficiency Filter:** primary-efficiency filter can remove the big dust and dirt particles in air.
- **High Intensity Ultraviolet Lamp:** air comes to the high intensity ultraviolet area and is irradiated by ultraviolet ray of 254nm, which can damage DNA construction of microorganism and kill the bacteria and viruses.
- **Photocatalyst Filter:** it can oxidize organic compounds and mineralize inorganic substance, as well as kill bacteria and remove peculiar smell.
- **Negative Oxygen Ion Generator:** the negative oxygen ion is continuously transmitted into the air and makes the air clean and purified.



### Short Sterilization Time

After one hour working time, the indoor air quality can reach the requirement of II, level environment, and the bacteria colonies  $\leq 200\text{cfu}/\text{m}^3$ .



### Easy Use

LCD (Liquid Crystal Display), Touch Panel, Infrared Remote Control 3 work mode optional: automatic, manual, timing system



### Intelligent technology

- Air quality sensor and dust sensor are applied to equipment, which can automatically inspect indoor environment and automatically function
- **Fault indication:** the equipment can automatically inspect whether the fan, plasma generator and HEPA work normally



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