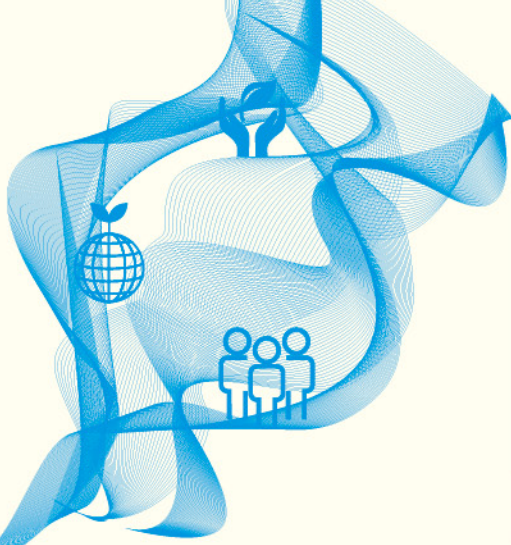
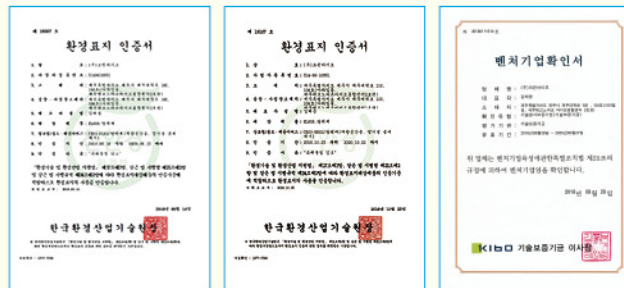


Creativity Challenge Contribution



CERTIFICATE



Cleanbio researches, develops and manufactures a range of products using eco-friendly materials. The corporate attached research center that is manned by outstanding researchers develops antibody alternatives, harmful animal repellants, deodorizers, and other products using natural materials. It has recently received attention in both domestic and overseas markets for its urban sterilizers and air purification sterilizers. LIVA AIRDOCTOR, which purifies and sterilizes the airborne ultrafine particles, harmful substances, viruses and bacteria that have recently become a huge issue, has experienced an exponential growth in demand from public facilities and hospitals. We will become a company that contributes to improving human welfare through management that focuses on people and the environment.

PAST PERFORMANCE

Place of delivery(Country) | Shinhan Card HQ (Korea)
 Product or service delivered | 330 Air Purification Sterilizers
 Period | 5-year rental Delivery Amount | 1,007,000,000 KRW

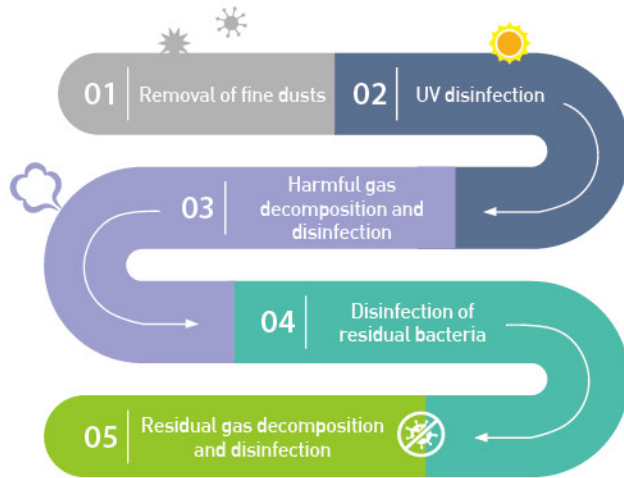
Place of delivery(Country) | Songpa-gu Office, Seoul
 Product or service delivered | 34 Book Sterilizers
 Period | 1 month Delivery Amount | 49.5 million KRW



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Structure that is unique to the LIVA AIR air-purifier



High-Functioning Air-Purifying Sterilizer

Liva air-Air-Purifying Sterilizer to create atmosphere combining high performance and excellent product design

- 1 100% virus elimination
 - Kills nucleic acid (DNA and RNA) with UV and hydroxyl radical (-OH) for 100% disinfection of coronavirus, influenza virus, poliovirus, and adenovirus
- 2 Deodorizes and removes harmful gases (new house syndrome)
- 3 Reduces symptoms of atopic and allergic respiratory diseases by improving air quality
- 4 Long life and minimal power consumption through the use of LED disinfection lamp
- 5 Guaranteed 30,000 hours of stable use and minimized parts replacement costs for the disinfection module
- 6 Equipped with 4-stage wind power DC motor to minimize noise
- 7 Remote support service

LIVA AIR-DOCTOR



- **Product size** 340*360*1770mm
- **Weight** 67kg
- **Usage Area** 165m²
- **Voltage** 220V, 50/60Hz, 70W
- **Material** Aluminum, white tempered glass
- **Operation button** Electrostatic one-touch button / power notification: logo illuminates
- **Notification indication** Operation notification-4 stage LED flickering
Inspection notification – Light On (FAN, LED, FILTER)
- **Wheel** Fixed wheels
- **Ventilation method** Basic Top 3-Way (front, left & right)
- **Air purification** Medium filter +charcoal filter + HEPA filter (H13 grade)
- **Deodorizing** Charcoal filter + LED UV ray + Photocatalysis filter
- **Sterilization** UV-A LED 20EA + Titanium dioxide (TiO₂) filter 8EA OH Radicals
- **Use of product**
 - Removes ultrafine particles PM-2.5 in the air
 - Sterilization of viruses in the air: Destroys DNA/RNA with OH Radicals
 - Disinfects harmful germs in the air
 - Removes harmful gases and odors in the air

KEY ATTRIBUTES

LiVA Clean Virus

Disinfection and elimination of harmful gases using the air purifier

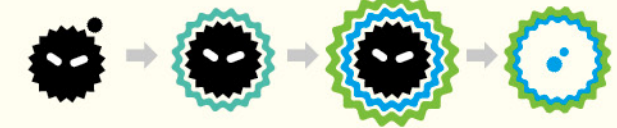
- **Airborne bacteria** Secondary infection, food poisoning, infectious diseases, allergies
- **Virus** Norovirus (food poisoning | norovirus (newborn) respiratory disease
- **Harmful gases** Formaldehyde, VOC, new house syndrome, atopy, rhinitis, asthma, nervous system immune disorder
- **Fine dust** Lung disease, heavy metals, tick
- **Asbestos / Radon** Lung disease, cancer-causing substance

UV disinfection **UV-A LED**

UV disinfection power is proportional to the disinfection ray's radiation luminance (u/m²), distance of the light source, and irradiation time index function. EVA Air Purifier repeatedly emits powerful UV rays, which destroy the DNA and RNA of pathogens.

Disinfection and gas removal of -OH Hydroxyl Radical (-OH)

Titanium dioxide stimulated by the light energy of UV rays becomes ionized by electrons (e⁻) and positive holes (h⁺) that exceed energy bands. The ionized electron (e⁻) stimulates water molecules (H₂O) having polarity in the air to generate large amounts of hydroxyl radicals (-OH). Hydroxyl radicals have 2.80 oxidizing power and are excellent for disinfection and for breaking down formaldehyde and volatile organic compounds (benzene, toluene, xylene), etc.



Touch-reacting type simple and refined design

Change the environment with the refined LiVA Clean Virus in any place where you need clean air, including public libraries, hospital clinics, offices, etc.



LiVA Clean Virus

LiVA Air Purifier goes beyond the old method of dust collection using filters, providing a fundamental disinfection method that destroys the DNA and RNA of harmful bacteria.