

Multifunction air purifier HEPA/UV/IONIZER/OZONE CDP3120

INTRODUCTION

The CDP3120 multifunction air purifier is a device that combines the 4 most effective purification and hygiene technologies against environmental contaminants, including: viruses and bacteria, fungi and prions, toxins and other organic contaminants, mites, dust, pollen, dandruff, mold, biological and chemical toxic substances: HEPA FILTER / UV RADIATION / IONIZER / OZONIZER. It is a state-of-the-art air purifier with four levels of purification designed to safely and effectively purify and sanitize the air inside closed rooms, without requiring chemical agents. Its intelligent design allows it to operate automatically to cover spaces up to 20 m² per equipment.

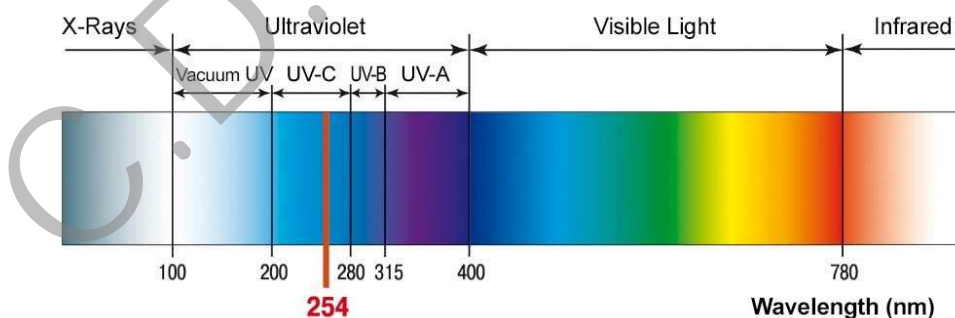
FUNCTIONS AND CHARACTERISTICS



HEPA filters are filters with a high capacity for air filtration. The acronym stands for High Efficiency Particulate Air, and it traps smoke, dust, pollen, mites, and particles in the environment larger than PM2.5 as well as toxic mist.

Irradiated **UV sterilization** eliminates bacteria, viruses and parasites.

Ultraviolet light kills pathogens by disabling their DNA, destroying their ability to multiply and cause disease. UV-C light has the ability to disinfect without direct contact.



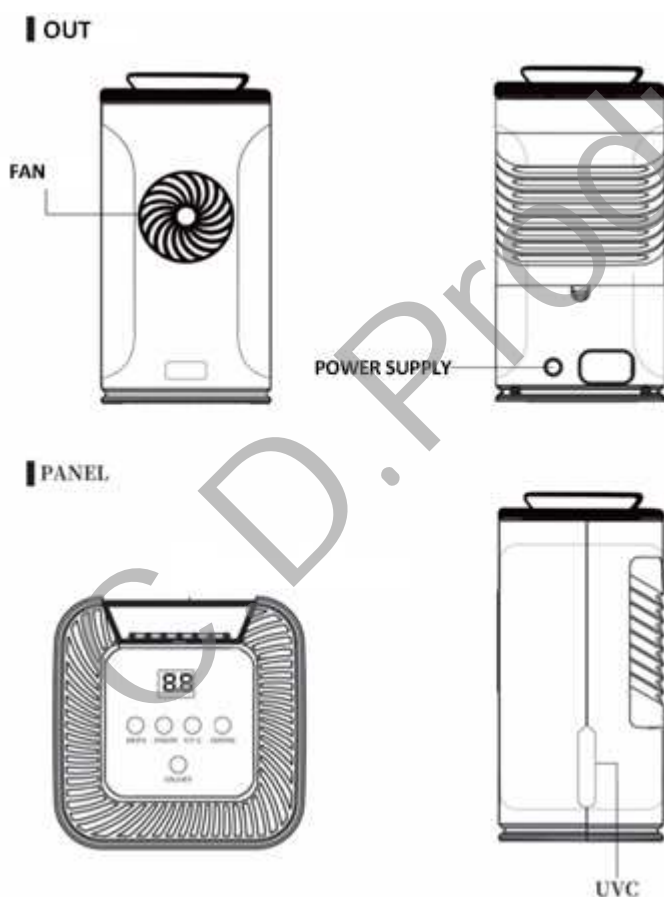
An **anion/ionizer** releases a large number of ions ($5 \times 10^6 \text{ pcs/cm}^3 \times 10^6 \text{ pcs/cm}^3$) that attract particles, such as dust, pollen and allergens, which are positively charged. Particles become heavy and fall to the ground, outside the respiratory system. Negative ions also play a role in disinfection and air purification, destroying formaldehyde, preventing corrosion and eliminating smoke and internal

odor as well as deeply disinfecting the room environment by eliminating allergens, viruses and bacteria. There is evidence that breathing air loaded with negative ions can reduce symptoms of anxiety and depression as well as improve sleep and comfort.

Ozone destroys bacteria and viruses. Ozone (O₃) is gas made up of three oxygen atoms. It is an extremely potent oxidizer and residue is oxygen that does not contaminate. The SARS-CoV-2 coronavirus, responsible for COVID-19, is an enveloped virus that makes it particularly susceptible to destruction by disinfectants, including ozone. In the case of enveloped viruses, ozone easily oxidizes the viral covering, modifies its structure or destroys it and leaves it inactive. In other families of viruses, destruction is caused by the direct damage of ozone to capsid proteins and nucleic acids.

OTHER FEATURES

- With easy-to-use smart touchscreen with multi-function activation.
- Power supply at 12V DC, safe voltage, no danger of electric shock.
- High-performance silent fan, no annoying noise.
- Energy saving, low power consumption and long-lasting filter.



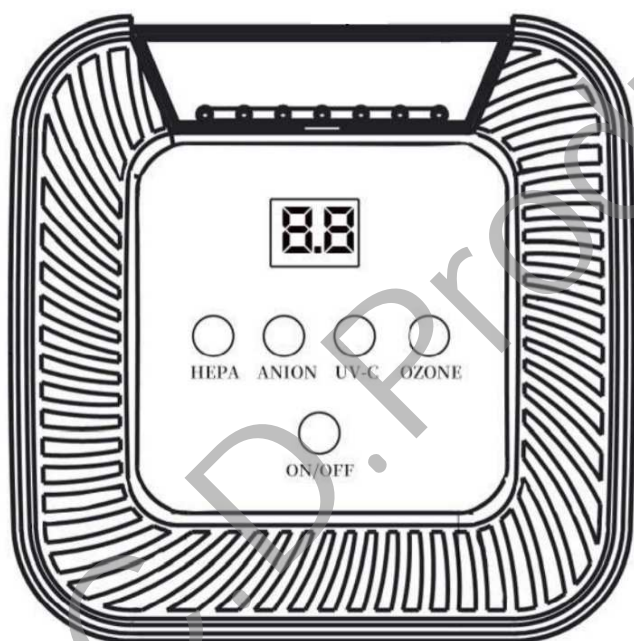
TECHNICAL PARAMETERS

- Power: DC 12V/50Hz - 8W
- Noise: <30dB
- Ozone: 50-80mg/h
- Ionization power: $5 \cdot 10^6$ pcs/cm³
- CADR 120m³/H
- Material: ABS
- Coverage: 10-20 m²
- Net weight: 1kg / Gross weight: 3kg
- Dimensions (L*W*H) 140*140*280mm
- 375*182*230mm

PRODUCT USES

Its use is ideal for: offices, bathrooms, meeting rooms, small shops, hotel lobbies, bedrooms, medical offices, school classrooms, dining rooms, residences etc. It can also be used to sterilize vehicles and remove odor.

OPERATION MODE



ON / OFF

Press the ON/OFF button. The light will flash for a few seconds "==" . Press the HEPA function and it will start working.

You can activate all functions when there are people in the room as the device has automatic programming with timers for a safe use.

Air purification (HEPA)

Press to start purifying; the indicator will turn on and stay on uninterrupted until you turn off the unit manually. You should replace the HEPA filter in cycles of 3 to 6 months, or when it has a darkened appearance due to an accumulation of filtered dirt.

Anion /IONIZER

Press to activate, "4.0" is displayed. Once activated, the timer will begin a 4-hour cycle and shut off automatically. This function can be turned on or off manually. Ionization is compatible with people in the room.

UV-C sterilization

The UV-C sterilization function is encapsulated inside the equipment, incising and eliminating all environmental residues collected by the fan. Since it is encapsulated, the UVC lamp can be used with people in the room, however, it is advisable to respect a distance of 1 to 2 meters from the equipment while it is in operation. This feature will remain permanently activated without a timer until it is manually deactivated or the unit is turned off.

Ozone

Press to activate. The timer will automatically turn off the ozone generator after a 20m cycle. The device timer must **be respected to avoid an excessive concentration** in the room with dimensions of 10 to 20 m².

The OZONE function can be activated or disabled at the user's convenience. An ozone shock treatment with concentrations greater than 0.10 ppm should be performed only for deep disinfection when no animals or people **are found in the room, and once completed, you need to wait at least 30 minutes to re-enter.**

In the case of the CDP3120, the ozone generator is low power and provided for the recommended dimensions of the room from 10 to 20m². It is controlled by a timer that will assure safe ozone concentration levels below 0.10 ppm.

	
LÍMITES DE EXPOSICIÓN AL OZONO	
INSST (Instituto Nacional de Seguridad y Salud en el Trabajo)	Establece diferentes valores límite de exposición VLA-ED® en función del tipo de trabajo realizado o su duración:
	Trabajo PESADO: 0,05 ppm o 0,10 mg/m ³
	Trabajo MODERADO: 0,08 ppm o 0,16 mg/m ³
	Trabajo LIGERO: 0,10 ppm o 0,20 mg/m ³
Trabajo PESADO, MODERADO O LIGERO ≤ 2 horas: 0,20 ppm o 0,40 mg/m ³	
Tabla 3. Límites de exposición al ozono establecidos o recomendados por diferentes organismos [4, 5, 6].	



SAFETY INSTRUCTIONS

1. Please read this manual carefully before use. Save the manual in case you need it in the future.
2. If you perform ozone shock treatment in cycles longer than 20m that may exceed the recommended concentration, no people or animals should remain in the room within thirty minutes of completion.
3. It is recommended to place the equipment in the room at a minimum distance of 1-2 meters from people or animals.
4. Use the ground power source to prevent electric shock.
5. Avoid water near the appliance to avoid short circuits.
6. Do not disassemble the unit yourself, see a professional if it does not work.

REMINDER

1. The HEPA's filter life is approximately 3-6 months. You can purchase a new filter on the page: www.cdpsa.eu
2. Be sure to install the filter carefully, etc.
3. Keep the filter with adequate moisture and ventilation.
4. Do not insert your finger, or any foreign objects or bodies through the holes of the device, whether it is on or off.
5. When not in use, store the unit properly and keep it in a dry place.

IMPORTANT NOTICE

C.D. PRODUCTS S.A. reserves the right to modify the manual and characteristics of the product without prior notice. Also, some of the features described in this manual may vary depending on the model purchased.

The manufacturer or distributor shall not assume any liability if its use contravenes the provisions of the legislation applicable in the country in which it is used.