

PURIFICATION AND DISINFECTION SYSTEMS 2020 Products

1.3



| PAGE | PRESENTATION                          |
|------|---------------------------------------|
| 3    | A.1 Company and catalog presentation. |
|      |                                       |
|      | DISINFECTION AND PURIFICATION SYSTEMS |
| 4    | B.1 Ozonation.                        |
| 5    | B.2 Ionization.                       |
| 6    | B.3 Ultraviolet.                      |
| 7    | B.4 Use protocol.                     |
|      |                                       |
| 8    | PRODUCTS                              |
|      |                                       |

- **C ENVIRONMENT AND DISINFECTION PURIFIERS.**
- **D FURNITURE**
- **E ACCESS CONTROL AND DISINFECTION DISPENSERS**
- **F SHOCK DISINFECTION.**
- **G CABINETS AND SMALL DISINFECTION APPLIANCES FOR RESTAURANTS AND SHOPS.**
- **H LIGHTING**

Vedéfora is a brand that started in 2017, offering comprehensive solutions within the GINESTAR GROUP corporation.

Ginestar group began its activity with a family character in 1902 and is currently run by the 4th and 5th generation of the same founding family. Ling, develops its activity in different business lines, of which we highlight the following:

 Supply of totally ecological equipment and treatment systems, through chemical reactions in the environment, without generation of waste for disinfection, protection and care of spaces frequented by people.

Disinfection treatment with ozone.

Disinfection treatment and purification of spaces with ionizers.

Disinfection treatment using UV-C ultraviolet radiation system.

Protection of people with individualized protective equipment, mainly aimed at articles for the fight against epidemics and bacteriological struggles.

Sanitary protective equipment and trauma bandages derived from textile procedures blocking chemical reactions.

Next, we present our latest catalog of protection and control of spaces, with products of total confidence.

Our products are tested both in quality and effectiveness, guaranteeing proper operation for each task.

We remain at your entire disposal, to advise you on the areas to be protected and we will gladly indicate which solution is the most suitable for your needs.



# **B.1** PURIFICATION AND DISINFECTION SYSTEMS

### THE OZONE

The world health organization guarantees that the use of ozone is effective for disinfection and the eradication of bacteria and viruses in multiple spaces.

Although it is a very effective disinfectant, it is important to use it during the disinfection process in spaces where there are no people or through devices that supply controlled amounts so that they are not harmful to people.

Ozone treatments renew and oxygenate the air in closed spaces, eliminating odors, and all kinds of harmful agents. Being a gas, it cleans and disinfects the most inaccessible places, also eliminating efforts in cleaning upholstery and fabrics. It does not contaminate food because it is an ecological disinfection. Ozone has fungicidal properties, destroying all kinds of toxins, bacteria and viruses present in the environment, purifying the air with each application. Disinfects, removing fungi, algae, spores, and mold. Ozone treatments prevent many diseases.

The final result is a greater feeling of cleanliness.

### THE OZONIZER

The use of ozonizers, placed in any kind of room, guarantees total disinfection and cleaning of the air, eliminating the particles that produce a bad smell, and increasing the amount of oxygen.

The generator connected to the network receives oxygen directly from the environment, and after a process in which it is subjected to a series of electrical charges, the oxygen (O2) is transformed into ozone

After its application, as we have previously commented, the ozone is immediately converted back to oxygen, leaving no residue and providing an additional positive effect to the cleaning and disinfecting by

improving the quality of air in any environment in that the treatment has been carried out. An ozonizer is a machine that generates ozone artificially, for use in disinfecting and cleaning environments, odor removal, water treatment and purification, and in medical treatments.

As previously mentioned, ozonators must be used in closed spaces without people or pets, so the guidelines

to use are recommended in our, described inside.



#### **THE IONS**

An ion is simply an atom with a certain electric charge (positive or negative), when the atom has the same number of protons (+) as electrons (-), it has balanced charges (neutral). When an atom loses an electron, the previously neutral atom now becomes a positive ion because the positive charge predominates, on the contrary, if more than one electron enters, the atom becomes a negative ion. Ions greatly influence our biological and psychic processes. Air ionization is essential in the creation and maintenance of life on Earth. The ionic imbalance of the air towards an excess of positive ions is harmful for plants, animals and humans. Everybody, to a greater or lesser degree, feel affected by this imbalance that causes conditions such as headache, tendency to depression, irritability, insomnia, and other discomforts.

Who has not experienced the pleasant sensation of breathing the air of the countryside or the sea? We say that it is pure air. Why is it different from the air of the city?

The answer is that the air in the city, for the most part, is made up of positive ions due to environmental pollution, whereas in the countryside, mountains and sea, negative ions abound. The defense capacity of the human body depends largely on breathing in an atmosphere with a good percentage of negative ions, which increase body and psychic performance. Negative ions are absorbed through the skin, producing effects on the internal organs, but fundamentally they influence the organism through respiration, allowing greater oxygen absorption since iron in the blood is positive and therefore is attract.

One of the most important effects of ionization is observed in stress reduction. Stress causes headaches, dizziness, insomnia, anxiety, lack of concentration, etc. The negative ionization of air, on the other hand, gives us rest, relaxation and more energy. This is because negative ions reduce the tenor of a hormone: Serotonin, called by doctors "the stress hormone." These ions also have the property of normalizing blood pressure, both in hypertensive and hypotensive people. Mountain areas are places of special negative ionization.



#### THE IONIZER

An air ionizer is a device for environmental cleaning that uses electrically charged particles to improve air quality. The ionizer achieves this air improvement without using chemicals. The ionizer manages to eliminate bad odors, contaminants and with a bacteriological load, providing a feeling of freshness that is very pleasant. This is one of the most appreciated characteristics of an ionizer, since its use achieves a perception of air similar to that of places in the middle of nature. Its operation is based on the principle of electrostatic attraction. This means that particles of different electrical charges attract each other.

Since dust, bacteria, and in general, all the polluting elements in the air have a positive charge, the use of the ionizer causes these particles to bind to the negative ions generated by the device, and by becoming heavier particles, descend from the environment depositing on the ground.

That is why it is important that if an ionizer is used, cleaning it is done with a vacuum cleaner or mope, since if it is swept, there is the possibility that these particles can re-integrate into the air.

# **B.3** PURIFICATION AND DISINFECTION SYSTEMS

## **UV FOR DISINFECTION**

The International Commission on Illumination (CIE) faces the increasing international interest in the use of ultraviolet radiation (RUV) to control the risk of transmission of COVID-19, and other viruses and bacteria. UV-C radiation (ultraviolet radiation spanning the 100 to 280 nm range) is extremely useful for disinfecting air and surfaces, as well as sterilizing water. However, the ICD and the World Health Organization (WHO) warn that UV lamps should not be used to sterilize hands or other skin areas, as UV radiation can cause skin irritation.

UV-C can be dangerous to humans and animals, and should only be used in carefully controlled circumstances, using well-designed products, ensuring that the exposure limits specified by authorities with photobiological safety powers are not exceeded.

The use of this system for disinfection during the presence of people and animals is not recommended. For proper UV radiation assessment and risk management, it is essential that UVR measurements are appropriate. UV-C is the type of ultraviolet radiation that falls within a wavelength range of 280 to 100 nanometers.

### WHY IS UV-C USED IN LAMPS?

Artificially produced UV-C has been used successfully as a germicide and bactericide for decades. It can kill microorganisms, such as bacteria, viruses, and other pathogens, or impede their development, and provides a chemical-free alternative to other disinfection methods, such as the use of chlorine. Due to its effectiveness and benefits, UV-C is being used in a growing range of applications. It is used, for example, for disinfection in sewage treatment plants, laboratories, air conditioning systems and even swimming pools and aquariums, as well as in different stages of the industrial processes of food and beverages. UV-C is also used in medical and hospital settings for the sterilization of instruments, work surfaces, and air. Now technological advances make UV-C light emitting diodes (LEDs) available, which has led to an even greater number of applications, even in medical devices.

All our UV-C lamp disinfection products have perfectly controlled ultraviolet ray emission.



### PROTOCOL FOR DISINFECTION TREATMENT OF SPACES

#### **INITIAL STEP** - Shock disinfection:

We recommend disinfecting the premises by means of a shock treatment; we especially recommend the use of an ozonizer, using this system at a time of day, in which they are not frequented by people or animals. The space must remain closed during the entire treatment, so that the ozone reaches every corner. According to the spaces to be treated (volumetry), the times and emission of milligrams of ozone/hour, necessary for the perfect treatment of a specific space, will be indicated.

This operation should be carried out every time you want to eliminate bad smells and also depending on the

This operation should be carried out every time you want to eliminate bad smells and also depending on the influx of people to the establishment and its activity. If the disinfection is carried out during the period of closure of the premises, the ventilation of the premises is not necessary, provided that the time from the end of the disinfection until it is frequented by people has sufficient time for the disappearance of ozone in the environment.

If disinfection is carried out without time until opening for the transit of people, it is important to open the space for ventilation. In homes it is not necessary to carry out this treatment, only with step 2 it is sufficient for home disinfection.

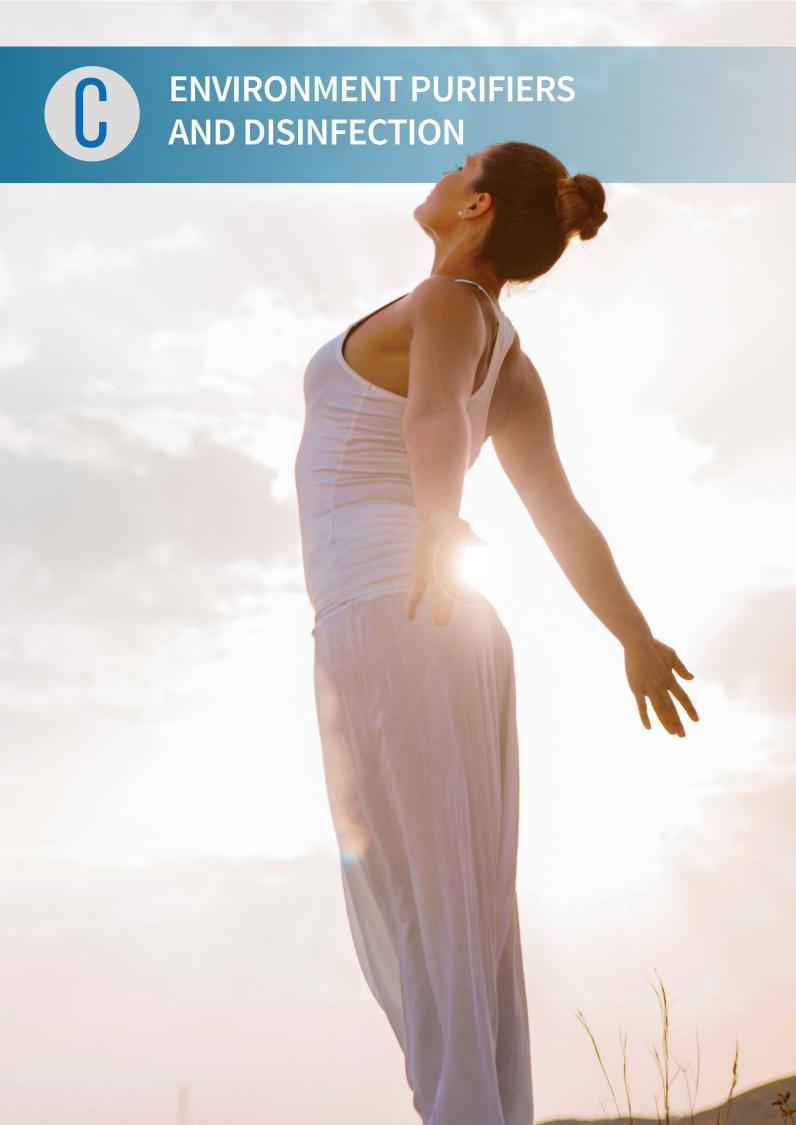
#### **SECOND STEP** - Purification of the environment:

This is the step that is carried out with the ionizer, the function, apart from maintaining the disinfection previously carried out with the ozonizer, makes the environment very pleasant for people, creating a space where you can breathe "pure air" very identified with nature. Apart from being very pleasant and conveniently healthy for people, it continues to disinfect, not with the aggressiveness of ozone, but it does maintain the level of disinfection. Our ionizers are prepared for the correct emission of filtered and purified air with the creation of negative ions (electrons). This purification can either be done with the corresponding timers or with the electron measurement sensors per cm3. In this way, it is achieved that the treatment is correct throughout the time it remains in transit. For homes, we have valid devices for disinfecting and purifying the different spaces of a home. For households, in most situations, the use of ozone is not necessary to perform shock disinfection.

Finally, we wish you to enjoy the created environment.









# L800 AIR PURIFIER





# IONIZER 7 PHASES OF PURIFICATION

2 PHASES of Pre-filter

2 PHASES "HEPA" filter (H13)

2 PHASES Activated carbon filter

Filter change indicator

NEGATIVE IONS: 1000,0000 pcs / cm<sup>3</sup>

Laser / Led color air quality sensor

\* 2 UV lamps (optional)

CAPACITY: 800m3 / h

PURIFICATION SURFACE: 100/200 m2

MAX POWER: 90W

ARTICLE MEASURES: 391x377x811 mm.

GROSS WEIGHT: 17kg

LOUDNESS: 35 ~ 62db

TIMER: 1 ~ 8h



COMBINED SYSTEM IONIZER / OZONIZER / UVz

Provided with 6 filters
HEPA filter (460x356x40)
Activated carbon filter (460x356x20)
Filter change indicator
Child safe
Led color air quality
Remote control

CAPACITY: 400m3 / h
PURIFICATION SURFACE: 60/100 m2
OZONE (duty cycle): 500 mg / h.
IONIZER: 2 \* 10 ^ 6pcs / cm

MAX POWER: 99W / VOL.:AC220V/50Hz ARTICLE MEASURES: 400x240x680 mm. NET WEIGHT: 10.5kg / NOISE: 35 ~ 62db



# IONIZER 4 FILTERS - 5 PURIFICATION PHASES

Pre-filter
HEPA filter (H11)
Activated carbon filter
"Formaldehyde bane filter"
Filter change indicator
NEGATIVE IONS: 1000,000 pcs / cm3
Led color air quality

CAPACITY: 260m3 / h

PURIFICATION SURFACE: 30/60 m2

MAX POWER: 38W

ARTICLE MEASURES: 350x190x640 mm.

GROSS WEIGHT: 8kg LOUDNESS: 35 ~ 55db

TIMER: 1 ~ 8h



# L110 AIR PURIFIER





\* AVAILABLE COLORS: WHITE, LIGHT BLUE, PINK AND BLACK

## **IONIZER**

Round combo filter
HEPA filter
Activated carbon particle filter
Filter change indicator
NEGATIVE IONS: 5 \* 10 ^ 6 pcs / cm
Led color air quality indicator
3 OPERATING MODES

CAPACITY: 110m3 / h

PURIFICATION SURFACE: 20/30 m2 MAX POWER: 40W / VOL.:AC220V/50Hz

FAN: 4 speeds

ITEM SIZES: 216x337 mm

NET WEIGHT: 2,2kg - NOISE: 48db

**TIMER** 



# L30 PORTABLE AIR PURIFIER







HEPA filter
Activated carbon particle filter
USB cable included
NEGATIVE IONS: 1 \* 10'7pcs / cm3
Led decorative color
\* Aromas box (OPTIONAL)

CAPACITY: 110m3 / h

PURIFICATION SURFACE: 10/20 m2 INPUT POWER: 0.6W / VOL.:DC 5V

FAN: 2 speeds

ITEM SIZES: 65 Ø x 158 mm

NET WEIGHT: 150gr.











# PACKAGING L SERIES

# AIR PURIFIERS







**DISINFECTION SYSTEM** 

**OZONE TIMER (MINUTES):** 10 - 20 - 30 - 45 - 60 MAXIMUM OZONE OUTPUT: 600mg / h MAX POWER: 12W / VOL.:AC220-240V/50Hz

ITEM SIZES: 370x75x245 mm

NET WEIGHT: 1,5kg

It eliminates bad odors and harmful particles from the air. It keeps insects away.





- ► COMBINED DISINFECTION SYSTEM: OZONE + UVC
- ► NEUTRALIZATION OF BAD ODORS
- **▶** GREAT VARIETY OF FINISHES AVAILABLE
- ► MEASURES: 500 x 700 x 350 mm. (customization of measurements and finishes check quantities)



- ► DISINFECTION SYSTEM: **UVC**
- ► GREAT VARIETY OF FINISHES AVAILABLE
- ► MEASURES: 500 x 700 x 350 mm. (customization of measurements and finishes check quantities)



- ► MOTION SENSORIZATION SYSTEM FOR AUTOMATIC START-UP, PERFORMING THE PROGRAMMED FUNCTIONS FROM THE FACTORY AUTOMATICALLY.
- ▶ 3000 mAh CAPACITY LITHIUM BATTERY
- ► BATTERY LIFE: 8 HOURS WITH A FULL CHARGE
- ▶ 1000 CHARGE CYCLES
- **▶ INCLUDES USB CABLE**







# S25 PORTABLE SOAP DISPENSER AUTOMATIC/INFRARED







250 ML CAPACITY.

**INTELLIGENT MOTION SENSOR** 

LITHIUM BATTERY 5V

**INCLUDES USB CHARGING CABLE** 





# S50 WALL SOAP DISPENSER AUTOMATIC / INFRARED







**500 ML CAPACITY.** 

**INTELLIGENT MOTION SENSOR** 

**EASY WALL INSTALLATION** 

MEASURES: 210x145x120





**CAPACITY OF 600 ML.** 

**INTELLIGENT MOTION SENSOR** 

SUPPORT BASE AVAILABLE IN DIFFERENT STYLES





Automatic Gel / Spray Dispenser
Hands detection sensor
21.5 "PROGRAMMABLE LCD DISPLAY
SCREEN RESOLUTION: 1920x1080 FHD
MULTI-LANGUAGE DISPLAY

\*\* Body temperature meter (OPTIONAL)

\*\* Floor support base (OPTIONAL)

MAX CONSUMPTION: 50W SLEEP CONSUMPTION: 3W





Strong and easy to clean and maintain.

The motorized system does not require an electrical installation.

Wide variety of sizes available.



**UV** Protection



Printable and customizable material





Double system with disinfectant tray and drying tray. Removes bacteria and viruses from footwear. Suitable for pouring any kind of disinfectant liquid. Triple filter cleaning and disinfection. Easy disassembly and cleaning of components.







## **OZONE CONTENT: 7,000 mg.**

FLOW: 150m3 / h

WORK AREA: 50-80 m2

MAX POWER: 104W

ARTICLE MEASURES: 303x204x184 mm.

TIMER: 1 ~ 60 minutes



# OZ16 OZONIZER



# **OZONE CONTENT: 16,000 mg.**

FLOW: 260m3 / h

WORK AREA: 120-150 m2

MAX POWER: 132W

ARTICLE MEASURES: 323x162x184 mm.

TIMER: 1 ~ 60 minutes



# CABINETS AND SMALL DISINFECTION APPLIANCES FOR RESTAURANTS AND SHOPS.





# CR442

**DISINFECTION CABINET** 



**▶ COMBINED DEFINECTION: OZONE + UVC** 

► AVAILABLE IN 3 INTERIOR CONFIGURATIONS:

**CONF. 1:** CLOTHING BAR

**CONF. 2:** CLOTHING BAR + RACK

**CONF. 3:** ALL SHELVES

CAPACITY: 442 Lts.

**OPENING: 1 FOLDING DOOR** 

MAX POWER: 900W

ARTICLE MEASURES: 647x580x1810 mm.

NET WEIGHT: 43 kg.

\*\* DRYING FUNCTION (OPTIONAL)





# CR886 DISINFECTION CABINET



**LEGISLA CABINET** 

**▶ COMBINED DEFINEECTION: OZONE + UVC** 

► AVAILABLE IN 3 INTERIOR CONFIGURATIONS:

**CONF. 1:** CLOTHING BAR

**CONF. 2:** CLOTHING BAR + RACK

**CONF. 3:** ALL SHELVES

CAPACITY: 886 Lts.

**OPENING: DOUBLE FOLDING DOOR** 

MAX POWER: 1800W

ARTICLE MEASURES: 1285x580x1810 mm.

NET WEIGHT: 88 kg.

\*\* DRYING FUNCTION (OPTIONAL)



# **CR380**

# **DISINFECTION CABINET**



**COMBINED DEFINFECTION: OZONE + UVC** 

**AVAILABLE IN 3 INTERIOR CONFIGURATIONS:** 

**CONF. 1:** CLOTHING BAR

**CONF. 2:** CLOTHING BAR + RACK

**CONF. 3:** ALL SHELVES

CAPACITY: 380 Lts.

**OPENING: 1 FOLDING DOOR** 

MAX POWER: 600W

ARTICLE MEASURES: 575x480x1610 mm.

NET WEIGHT: 23 kg.





# CM100

# **DISINFECTION CABINET**



**▶ DISINFECTION: UVC + High temperature** 

**▶ 2 DIFFERENTIATED DISINFECTION ZONES:** 

- Upper zone: 45° + UVC

-Lower area: 125°

► AVAILABLE IN 4 LOAD CAPACITIES:

- 108 Lts. / Ref. CM100-108

- 138 Lts. / Ref. CM100-138

- 238 Lts. / Ref. CM100-238

- 380 Lts. / Ref. CM100-380



#### **MAX POWER:**

CM100-108: 700W CM100-138: 800W

CM100-238: 1100W CM100-380: 1300W

#### **ARTICLE MEASURES:**

**CM100-108:** 420x365x835

**CM100-138:** 420x365x1020

**CM100-238:** 500x445x1330

CM100-380: 570x480x1610

### **ITEM NET WEIGHT:**

CM100-108: 14,7 Kg.

CM100-138: 17,7 kg.

CM100-238: 27,3 Kg.

CM100-380: 35,6 Kg.



DISINFECTION THROUGH UV
INCLUDES STORAGE COVER
DISINFECTION EFFICIENCY: 99%
USE IN TABLE CENTER (portable)

ARTICLE MEASURES: Individual use: 250x70x70 mm. - Format 4/6 users: 265x115x115 mm.



Input: DC5V 1A

PDISINFECTION MODE POWER: 2W POWER AROMATHERAPY MODE: 1W

MAXIMUM POWER: 9W

UV (wavelength): 253.7nm

DISINFECTION DURATION: 5 min DISINFECTION EFFICIENCY: 99.9%

ARTICLE MEASURES: 200x110x42 mm.
CUSTOMIZABLE DESIGN (check minimum quantity)
ITEM CERTIFICATIONS: CE / FCC / RoHS

# LIGHTING







- ► COMBINED SYSTEM: AMBIENT LIGHT + UV-C DISINFECTION LIGHT TUBE
- ▶ 3-POSITION SWITCH: OFF / OPEN LIGHT / UV-C LIGHT
- ► MEASURES: 500 x 250 x 250 mm.
- **▶** POWERS:
  - Ambient light: LED bulb 6w (1 unit)
  - Disinfection light: UV-C tube 11w (1 unit)



- ► COMBINED SYSTEM: AMBIENT LIGHT + UV-C DISINFECTION LIGHT TUBES
- ▶ 3-POSITION SWITCH: OFF / OPEN LIGHT / UV-C LIGHT
- ► MEASURES: 1600 x 400 x 400 mm.
- **▶** POWERS:
  - Ambient light: LED bulb 6w (3 units)
  - Disinfection light: UV-C tube 11w (1 unit) + UV-C tube 20w (1 unit) + UV-C tube 32w (1 unit)



- ► COMBINED SYSTEM: AMBIENT LIGHT + UV-C DISINFECTION LIGHT TUBES
- ► 3-POSITION SWITCH: OFF / OPEN LIGHT / UV-C LIGHT (REMOTE CONTROL)
- ► MEASURES: 1300 mm. Ø
- **▶** POWERS:
  - Ambient light: LED bulb 6w (8 units)
  - Disinfection light: UV-C tube 11w (8 units)



- ► COMBINED SYSTEM: AMBIENT LIGHT + UV-C DISINFECTION LED STRIP
- ▶ 3-POSITION SWITCH: OFF / OPEN LIGHT / UV-C LIGHT
- ► MEASURES: 500 mm. x 300 mm. Ø
- **▶** POWERS:
  - Ambient light: Led Strip 4w (2 units)
  - Disinfection light: UV-C disinfection led strip 5w (1 unit)



- ► COMBINED SYSTEM: AMBIENT LIGHT + UV-C DISINFECTION LED STRIP
- ▶ 3-POSITION SWITCH: OFF / OPEN LIGHT / UV-C LIGHT
- ► MEASURES: 1600 mm. x 500 mm. Ø
- **▶** POWERS:
  - Ambient light: Led Strip 6w (2 units)
  - Disinfection light: UV-C disinfection led strip 9w (1 unit)



- ► MEASURES: 900 mm. Ø
- **▶** POWERS:
  - Ambient light: Led Strip 9w (2 units)
  - Disinfection light: UV-C disinfection led strip 11w (1 unit)



## **HEADQUARTERS**



## Vedefora International Spain

#### **Vedéfora CANARY ISLANDS COMMUNITY**

Avda de la Iglesia, 68 38690 - Santiago del Teide (Sta. Cruz de Tenerife) +34 922 720 833 / +34 900 877 079

### **Vedéfora VALENCIAN COMMUNITY**

Avda l´alcudia, 95 03720 - Alicante (Spain) +34 965 731 956 / +34 900 877 079

## **VEDÉFORA**

VALENCIAN COMMUNITY
CANARY ISLANDS COMMUNITY
BALEARIC ISLANDS COMMUNITY
MADRID
MIAMI
HONG KONG
LISBON



### Vedefora International USA

1444 Biscayne Blvd, Miami, FL 33132, USA +1 305 851 1236