

## **VDSS Intelligent Atomization Disinfection Gate**

**The areas of application are:** hospitals, schools, factories hotels, banks, shopping malls, supermarkets, construction sites, etc.

This product has a triple disinfection system, which consists of:

### **1. Non-contact alcohol disinfection**

Non-contact alcohol based induction spray that's safe, and hygienic and can effectively sterilize the hands

### **2. Food grade intelligent induction disinfection**

A fully automated, safe and reliable atomized disinfection that effectively kills virus-causing bacteria with an intelligent induction spray

### **3. Foot disinfection**

A foot dust removal function, consisting of a middle disinfection channel containing disinfectant carpets that can sterilize the personnel's shoes

## **Features**

- **Face recognition, external personnel screening and file storage**

It can carry out identity authentication and file storage in areas with a large population flow, such as shopping malls, train, and bus stations, airports, automotive plants, etc. It can also clock in and record the temperature of employees, and sound an alarm for the interception of intruders.

- **No-contact infrared body temperature measurement system with both sound & light alarms**

A high precision infrared spectrum, and calibrated blackbody radiation source, that enables a digital temperature measurement system, which functions through a face recognition access control terminal. This function eliminates the need for contact, and effectively helps people avoid cross-infection.

- **Smart Display**

The body temperature monitor can adjust the temperature difference for seasonal changes, which allows a more accurate display of the body temperature. It's equipped with an automatic alarm that sounds within 1 second, of detecting a human body temperature that's above 99.14 degrees Fahrenheit.

- **Smart spray disinfection for hand washing**

The temperature measuring area is equipped with intelligent induction spray, which results in effective sterilization.

- **Automatic induction of ultrasonic fog**

This allows for quick elimination of the virus while in the disinfection area, by using food grade sterilized water.

## **Information for website**

### **VDSS**

#### **Intelligent Anti Virus Sterilization and Disinfection Cabin**

The question in everyone's mind is, how do we effectively sterilize, and disinfect to ensure the safety of people in all public places, and work environments and prevent further spreading of the current virus epidemic.

#### **Description:**

This product is for the purpose of destroying virus-causing bacteria, and promoting health and safety in public and private places, allowing people to once again enter into both public and private sectors of the community with a sense of safety.

This ozone-operated atomizer has an intelligent body temperature detection and disinfection cabin with an early warning and screening system, for epidemic prevention, and control and protective equipment for disinfection of the human body. A person's temperature is taken before entering into the disinfection cabin. When the temperature is higher than 99.14 degrees Fahrenheit the device will sound an alarm. After the temperature is taken, the person walks through the disinfection cabin for sterilization.

## **Medical grade ozone machine**

The molecular structure of ozone is unstable at normal temperature and pressure, and soon it will decompose into oxygen and a single oxygen atom. Excess oxygen will recombine into ordinary oxygen atoms without any toxic residue, so it is called pollution-free disinfection. Ozone is a broad-spectrum fungicide, which can kill bacterial propagators and spores, viruses, fungi, etc. and can destroy botulin toxin. Ozone kills bacteria in water faster than chlorine.

### **The strength of ozone:**

Ozone has a strong and quick action on pathogenic bacteria, like salmonella, E coli, Clostridium, Cryptosporidium, and also shows great ability of disposal spores, cysts and many other pathogens. The bactericidal action of ozone is about 50 times more efficient and 3000 times faster than chlorine. Unlike other chemicals ozone acts destructive not only on living microorganisms, but also to viruses and fungi causing their destruction. In addition ozone also remove vapors of organic substances such as solvents, gasoline, lacquers, paints, natural and synthetic oils and many others.

Ozone is not a powerful poison, but very rapid oxidant. In contrast to the complex of chemicals, ozone is biodegradable to pure oxygen and therefore does not leave behind toxic intermediates. Ozone treatment is a method of decontamination without the use of chemicals where the disinfectant is ozone, a naturally occurring gas with strong oxidizing properties.

Ozone treatment is an ideal way anywhere in the immediate human environment and is required for microbiological purity, and sterility to obtain an environment free from undesirable odors and various pathogens. Air ozone treatment, and near water ozone treatment, thanks to its effectiveness, has recently become one of the most popular methods of disinfection. The advantages of ozone as a strong oxidant are widely used by the automotive sector. Ozone treatment of premise

decontaminates the atmosphere. Ozonation allows you to remove from the air and objects in the room, life threatening bacteria, fungal spores, molds and other pathogens e.g. some viruses or allergens such as dust mites.

**Ozone is one of the most powerful sterilizers in the world and can be used to destroy bacteria, viruses and odors, and is also known as activated oxygen and atomic oxygen**

## **Advantages**

- **Non-toxic and harmless and no residue:**

The atomized liquid generated by this equipment is non-toxic and harmless to the human body. The atomized liquid has no residue on the body surface. Compared to other disinfection equipment, in the killing of bacteria and viruses, being non-toxic and having no residue is the main advantage of this equipment.

- **All stainless steel or aluminum alloy and internal and external body:**

Suitable for various complex environments, medical grade stainless steel body is designed with a beautiful appearance, high corrosion resistance and durability. Aluminum alloy is easy to install and light weight.

- **Atomization channel with effective length:**

According to the sterilization time requirement, the atomization channel length is strictly calculated, and the determined result is 2.4m, so as to ensure that bacteria and viruses can be effectively removed after passing through.

- **Face recognition + body temperature detection:**

Faces can be recognized without a mask, temperature detection accuracy 0.2 Celsius detection time is 1 second before alarm for abnormal temperature.

- **Convenience and flexibility:**

The integral cabin body can be rapidly deployed and moved, and can be used after being plugged in.

- **Dual-chip and dual-loop control:**

The equipment is fully intelligent. The discharge amount of the disinfection atomizing gas in the cabin is automatically calculated according to the human flow rate, to ensure that a certain atomizing concentration is always ensured in the cabin.

### **Expansion and customization of other functions**

- Attendance function
- Access control function
- Transmission belt to accommodate the air port, high speed railway station, bus station and other luggage disinfection function
- Design non-standard size