Space and surface disinfector

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COMPANY PROFILE

Chengdu Best Technology products originate from 22 years of professional accumulation in the medical field. We are providing air purification, bed unit terminal disinfection, space disinfection and other system solutions in hospitals and non-hospital places. providing a comprehensive one-stop solution for R&D, production, program design, installation, commissioning, maintenance, and information monitoring service.

Guided by market demand and establishes a complete IPD product development process system. In the early stage of product project approval, with professional market research, statistics big data of target customer demand, and researching demand statistics, screening, classification and analysis to determine product performance and specifications to meet more customer needs. Basis on rigorous scientific technology development and nearly harsh testing and verification, the product performance and quality are fully guaranteed, and it is far higher than the national industry standard requirements.

Backed up by a strong R & D team, most of them are experienced and skilled scientific and technological talents. Through continuous research and breakthroughs, a number of invention patents and utility model patents have been applied for.

Medical field: Applicable to the second and third class of hospital environments, such as operating rooms, laboratories, diagnosis rooms, treatment rooms, infusion rooms, and other places with special requirements to provide corresponding products and services.

Non-medical fields: factory workshops, hotels, schools, offices, conference rooms, homes, etc. provide corresponding products and services according to different needs such as venues and seasonal environments.

In line with the business tenet of "providing customers with the most satisfactory products and services", we solemnly promise: While ensuring the advancement, reliability and stability of the equipment, it will continue to improve the quality of service to ensure that customers can get the best Service makes customers satisfied and assured.

QUALIFICATION HONOR



Reports



Reports

New technology for hospital sterilization and disinfection during pandemic

Clinical situation

Red areas doctors and nurses are the most exposed group to the virus. How to reduce the exposure risk of medical staff trigger infection?

The amount of disinfection work in each department of the hospital is huge and the disinfection efficiency is low. How to make the disinfection more thorough?

There are many disinfection scenes in the hospital and environment is complicated. How to implement effective disinfection measures according to different areas?

Idea proposal

Various disinfection and requirements

Fever clinics, isolation wards, operating rooms, ICU and other departments have different disinfection standards, various methods and requirements.

Traditional disinfection technology under low efficiency

Traditional disinfection technology has low disinfection efficiency, and it is easy to overlook dead corners, resulting in insufficient disinfection.

The epidemic control area under high risk infection

In the epidemic control area, infection risk is extremely high. The vaporized hydrogen peroxide space disinfection not only effectively disinfect the air, In the epidemic control area, the risk of infection is extremely high. The vaporized hydrogen peroxide space disinfection can not only effectively treat the air, but also disinfect the surface of the object, making the disinfection more thorough, thereby ensuring the safety of medical staff.thereby ensuring the safety of medical staff.

Technology features

Working principle

Hydrogen peroxide usually exists into two states: liquid and gaseous. Liquid hydrogen peroxide has been proven to have the ability to disinfect and sterilize for a century. Has been widely used in food, beverage, medical and health care and other fields. In 1980's, experimental studies found that the same concentration of gaseous hydrogen peroxide has a sterilization ability of more than 200 times that of liquid. The hydrogen peroxide gas forms a micron-level envelope on the surface of various microorganisms, releasing strong oxidizing free radicals and attacking cells. Tissue components, including lipids, protein and DNA tissue, so as to achieve the inactivation of bacteria.

Application















Space and surface disinfector robot

H_2O_2

For space disinfection. Hydrogen peroxide has strong oxidizing properties, it can quickly attack the components of cells, including lipid proteins and DNA tissues, thereby achieving the inactivation of bacteria.

Plasma

For air disinfection. Multi-layer movement and multiple filtration, strong electric field ionization to generate plasma, through the high-energy electrons, free radicals and other active particles rich in plasma, it can effectively kill microorganisms in the air.

UV

Surface disinfection. Adopted ultraviolet disinfection factor with a wavelength of 253.7 nanometers, and the high-intensity ultraviolet radiation with mirror reflection increases the ultraviolet radiation effect to achieve the effect of disinfecting the surface.

Advantage

- Quantum atomization technology has better disinfection effect on space and surface
- Multi-angle three-dimensional gas injection space disinfection without dead ends
- Precision electronic components make the device could control the dosage of H2O2 accurately
- Disinfection data can be recorded and traceable
- Monitoring room temperature and humidity throughout the disinfection process
- Efficiently kill a variety of viruses and pathogenic bacteria
- One-key start, intelligent delay program, humanized design
- Remote control pad with WiFi connection
- Disinfection concentration can be monitored in real time
- 360° coverage air and surface disinfection
- Separation and disinfection of personnel and machines, safer
- After disinfection, automatic H_2O_2 removal and no residue



Product features

- High precision lidar navigation
  Accurate positioning, automatic transmission location
- Rapid disintegrate without residue
  After disinfection, rapid disintegrate is safe and no residue
- Fully automatic and intelligent
  Fully intelligent operation, man-machine separation, t o ensure the safety of personnel.
- Super long endurance, automatic charging
  Equipped with large capacity battery, automatic recharge unction in case of power failure
- High efficiency- precision- disinfection
  Integration of hydrogen peroxide, plasma, ultraviolet disinfection methods of quantitative management of disinfection process
- Intelligent supervision, remote control
  Intelligent control software multi-terminal remote control
- Intelligent obstacle avoidance, flexible and convenient
  Intelligent obstacle avoidance and autonomous obstacle crossing ability
- Effect monitoring is convenient
  The indicator can monitor the disinfection effect at any time, which is convenient and reliable

Basic function

1. With autonomous navigation technology, autonomous mobile, intelligent operation interface, simple operation;
2. Hydrogen peroxide molecules were formed into particles less than 3-5 μ m by quantum atomization;
3. Strong air convection technology makes hydrogen peroxide molecules disperse rapidly and evenly without dead angle;
4. It has high penetration and killing power, and has no corrosion on the surface of the object, and has good compatibility;
5. Only input the spatial data, automatically calculate the working time and start the working program;
6. Unique residual analysis function and residual over standard alarm function;
7. It has three modes of hydrogen peroxide, plasma and ultraviolet radiation for disinfection;
8. The mode can be switched freely, and continuous disinfection can be realized under unattended or manned state.

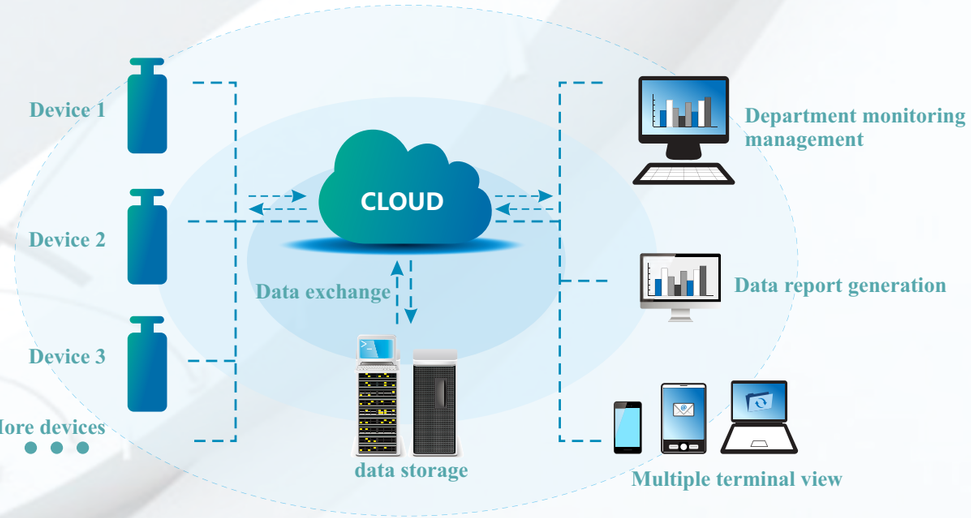
Technical parameter

Working conditions:	ambient temperature: ≥ 5℃, relative humidity: ≤ 90%, air pressure: 70-106 kPa	Control and display mode:	7-inch touch LCD screen, Tablet PC.
Input power:	≤ 480W	Intelligent alarm:	disinfectant residue, concentration, PM2.5 and abnormal working warning
Endurance time:	≥ 6 hours	Multiple connection modes:	Lora, Bluetooth, WiFi.
Action factors:	hydrogen peroxide, plasma, ultraviolet	Management system:	support disinfection management system
Decomposition:	Yes	Automatic operation of robot:	multiple sensors realize autonomous obstacle avoidance.
Application range:	≤500m³	Work record:	work record query, sterilization report query.
	Obstacle crossing ability: climbing angle ≤5° and ditch crossing width ≤ 30mm, turning and turning in situ.		

Scope of application

It is suitable for disinfection of high-risk areas, operating rooms, ICUs, neonatal wards, infection wards, general wards, scientific research laboratories, PCR, experimental animal centers, microbiological laboratories, biopharmaceutical enterprises, public areas and places with hygienic requirements, with an action space of 500m³.

Hydrogen peroxide monitoring and management system



Characteristics of monitoring and management system

1. Working data grouping management
   The binding operation of the equipment through the mobile terminal makes it easy to use mobile phones, pad and other more flexible sterilization operations, and it is convenient to trace the relevant information of sterilization process and disinfection results.
2. Real-time tracking of device location
   The status, location and remaining disinfection time of all devices can be checked through the positioning module, which greatly improves the device utilization rate and rotation speed.
3. Real-time monitoring of device status
   It can monitor whether the various operating data of the device are normal in real time, and promptly respond to the user's failures and some abnormal conditions of the device, and remind users and manufacturers to repair and maintain the device.
4. Disinfection record check
   Record all the working data of each device connected to the system to facilitate the traceability and query of the sterilization quality records, monthly and annual statistics, and generate reports and analysis tables.

Space disinfection service

Emergency disinfection service

- Public health emergency
- Disinfection of multi-drug resistant bacteria detection area
- Indwelling wards and transportation vehicles

Room disinfection service

- Intensive Care Unit (ICU)
- Infectious ward
- Fever clinics such as respiratory department and hematology department

Facilities and equipment disinfection service

- Infectious disease patient operating room
- PIVAS Center
- Ventilator, Various contaminated equipment



Space and surface disinfector mobile

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- 360° coverage air and surface disinfection
- Monitoring room temperature and humidity throughout the disinfection process
- Separation and disinfection of personnel and machines, safer
- Efficiently kill a variety of viruses and pathogenic bacteria
- After disinfection, automatic H_2O_2 removal and no residue

Basic functions

1. 360-degree three-dimensional spraying, quantum atomization technology makes the hydrogen peroxide particles diffuse in space, without dead ends, and has a good disinfection effect on the surface and space;
2. In the applicable space, disinfection can be completed within one hour;
3. The operation interface adopts a 7-inch full-touch LCD display, which can view historical disinfection data and related technical parameters; optional remote control, wireless remote control outdoors;
4. One-button start, the device automatically enters the countdown to work;
5. Work record query, sterilization report query, can store more than 10,000 related data;
6. Hand-held design, the equipment is light and easy to transfer, and the shell is made of corrosion-resistant material, which is convenient for cleaning and sterilization.

Technical parameter

Working conditions:	ambient temperature: ≥ 5°C, relative humidity: ≤ 90%, air pressure: 70-106 kPa	Control and display mode:	7-inch touch LCD screen, Tablet PC.
Input power:	< 1700W	Intelligent alarm:	disinfectant residue, concentration, PM2.5 and abnormal working warning
Working voltage:	220V / 50Hz	Multiple connection modes:	Lora, Bluetooth, WiFi.
Action factors:	hydrogen peroxide, plasma, ultraviolet	Management system:	support disinfection management system
Decomposition:	Yes	Automatic operation of robot:	multiple sensors realize autonomous obstacle avoidance.
Application range:	≤300m³	Work record:	work record query, sterilization report query.
	Obstacle crossing ability: climbing angle ≤5° and ditch crossing width ≤ 30mm, turning and turning in situ.		

Scope of application

It is suitable for disinfection of high-risk areas, operating rooms, ICUs, neonatal wards, infection wards, general wards, scientific research laboratories, PCR, experimental animal centers, microbiological laboratories, biopharmaceutical enterprises, public areas and places with hygienic requirements, with an action space of 500m³.

Space and surface disinfector portable



Basic functions:

- One-key start, device intelligent delay program, more user-friendly
- Bluetooth connected printer (optional) disinfection can be recorded, traceable, and printable
- Disinfectant does not need on-site configuration, easy to use
- Quick H_2O_2 removal after rapid disinfection, non-toxic and no residue
- Low corrosion risk, full material compatibility verification report for multiple materials

Product advantages

1.360-degree three-dimensional spraying and quantum atomization technology make the hydrogen peroxide particles diffuse in space without dead ends, and have a good disinfection effect on the surface of the space;
2.In the applicable space, disinfection can be completed in about one hour;
3.The operation interface adopts a 7-inch full-touch LCD screen, which can view historical
4.disinfection data and related technical parameters; optional remote control can be used for wireless remote control outdoors;
5.Work record query, sterilization report query, can store more than 10,000 related data;
6.Hand-held design, the equipment is light and easy to transfer, and the shell is made of corrosion-resistant material, which is convenient for cleaning and sterilization.

Technical parameter

Working conditions:	ambient temperature: ≥ 5℃, relative humidity: ≤ 90%, air pressure: 70-106 kPa			
configuration：	plug-in models,	charging models	Intelligent alarm:	disinfectant residue, concentration, PM2.5 and abnormal working warning
power:	≤ 900W	≤ 80W	Multiple connection modes:	Lora, Bluetooth, WiFi.
Action factors:	hydrogen peroxide, plasma, ultraviolet		Work record:	work record query, sterilization report query.
Decomposition	Yes		Control and display mode:	7-inch touch LCD screen, Tablet PC.
Application range:	≤120m³		Management system:	support disinfection management system



The main purpose

Disinfection of air and surface of objects in confined spaces

Scope of application

Small portable sterilizer, dedicated to the disinfection of emergency vehicles, blood collection vehicles, mobile laboratories, small laboratories, and other small spaces.

