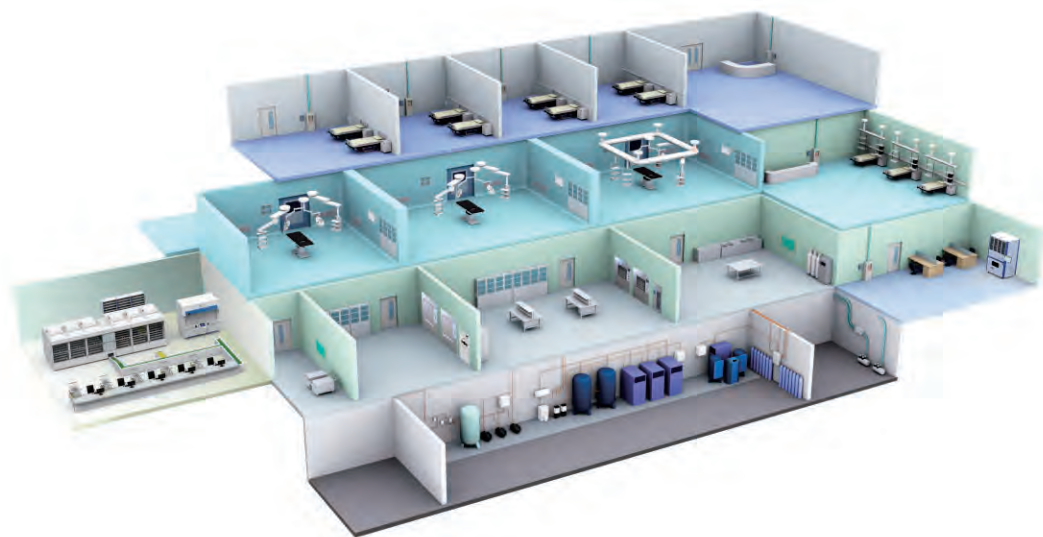


Suppliers for Life Support System Solutions



- i-Or** Operation Room Laminar Flow Project
- i-CssD** Digital Hospital Central Sterile Supply Department
- i-Gas** Medical Gas Supply System
- i-Pharm** Intelligent Pharmacy Dispenser for Out-patient & In-patient Departments
- i-Train** Hospital Pneumatic Tube Transportation System

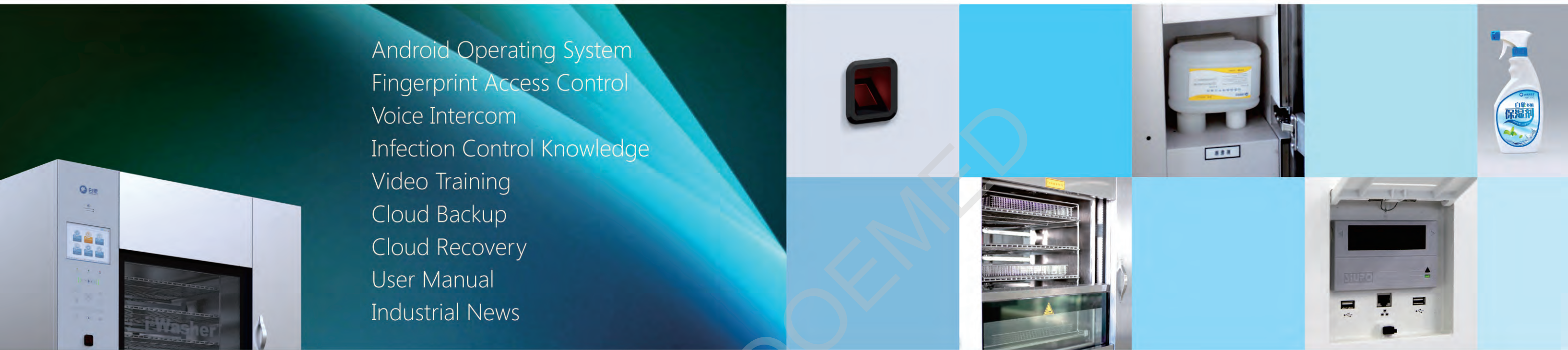
Wanrooe Machinery Co.,Ltd.
www.wanrooemed.com
email: info@wanrooemed.com

i-Washer™

Fully Automatic Washer disinfector

QPQ Series Fully Automatic Washer Machine & Consumables





- The first manufacturer in the world to implement Android operating system to washer machine, which indicates that infection control equipment break into informational and intelligent age.
- The first manufacturer in the world to apply fingerprint access control to washer machine, which is easier and faster for operators to enter the interface, and inhances the traceability.
- The first washer machine in the world to be equipped with cloud service enabling the real-time monitoring anytime and anywhere.
- The first washer machine in the world to have the function of text message notification(SMS), informs the operator of running status, the cycle end, equipment faults and maintenance, etc.
- The first and only one in the world to play training video, online update of industrial news, infection control knowledge, and user manual.
- The first washer machine in the world with the function of voice intercom enabling real-time communication between decontamination area and clean area, which provides an easy way to communicate for CSSD staff.

>>Quality

- CE
- FDA
- FSC
- ISO9001
- ISO13485



>>Patents

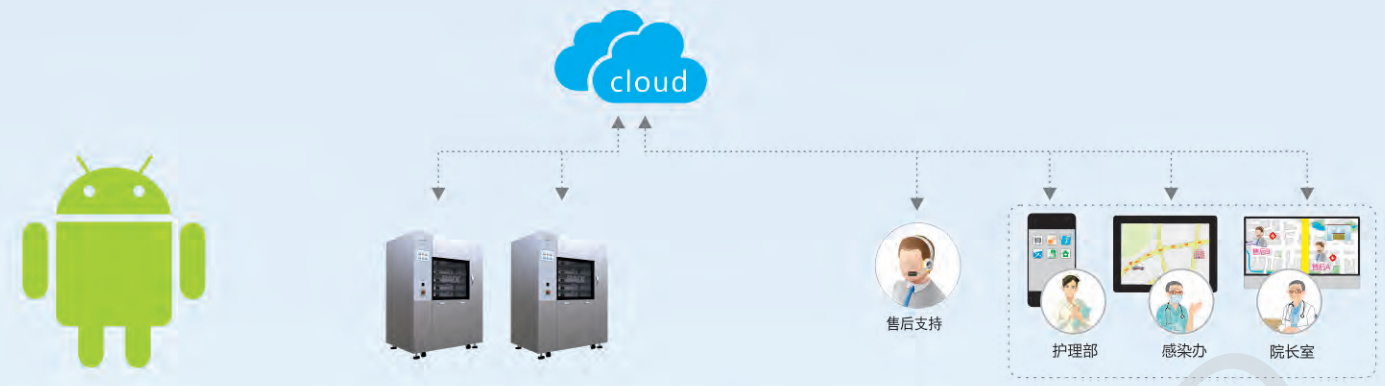
- Patent of high-speed automatic sliding door
- Patent of high-speed elastic connector
- Patent of water cooling and drying device for washer disinfector
- Patent of washer disinfector with traceability
- Patent of washer disinfector with finger print access control
- Patent of washer disinfector with SMS
- Patent of washer disinfector with voice intercom system



i-Washer™

Smart Operating System

The equipment implements **Android** operating system, enabling the real-time monitoring of machine. The running status and record can be delivered to traceability system by wire or wireless connector. In this way, the washer disinfecter is monitored real time.



"Cloud" Service

After connection with network, the equipment can backup the date into "cloud" on Internet. Once there is any fault, the machine, after repaired, can synchronize data from "cloud".

Any operators who are authorized can monitor the running of machine anytime and anywhere.

Main functions of "Cloud": cloud backup, cloud recovery, cloud curve.

Finger Print Access Control

Users can enter operating interface by finger print ID or password. By using finger print ID technology, the equipment get physiological feature record of operators, so it can trace the responsibility of operators.



Online Service

Provide the latest news in medical field;
Launch the latest equipment information;
Update the newest industry knowledge;
Provide operating manual and maintenance knowledge.
Online service is available anytime.



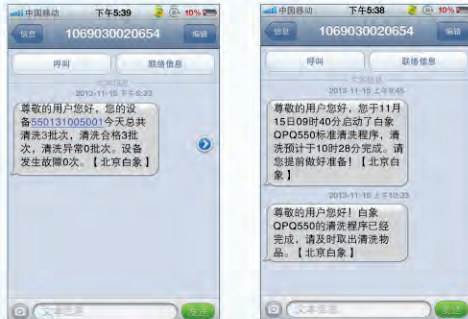
Video Training

Users can receive operation training and infection control knowledge, etc. from the machine.



Text Message Notification(SMS)

The equipment operating staff can get the information about running status of machine by text message. (including running information and fault information)



Voice Intercom System

BAIX voice intercom system is recognized by China patent department, which enables the real-time communication between decontamination area and clean area.

The function of "voice filter" can identify voice between staff and environment, so that the high quality voice is guaranteed.



Double Synchronized High-Definition LCD

10.4 inch LCD with image resolution 800x600; user friendly interface.



Standard Spare Parts

All major parts sourced from professional manufacturers, parts life is extended due to short cycle time; short cycle time, high efficiency and longer using life.



Various Connectivity to Network

Provide RJ 45 wire connector, WIFI module, 3G network module and USB data interface.





Fully Automatic Washer Disinfecter

QPQ-500/550



Android System



"Cloud"



Fingerprint Identification



Video Training



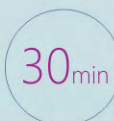
Text Message Notification



Voice Intercom



Synchronized Double-screen



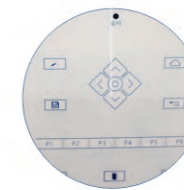
Shorter Cycle Time



Cost Saving



Excel Sheet Cycle Data



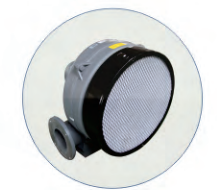
Touch Panel



Matrix Printer

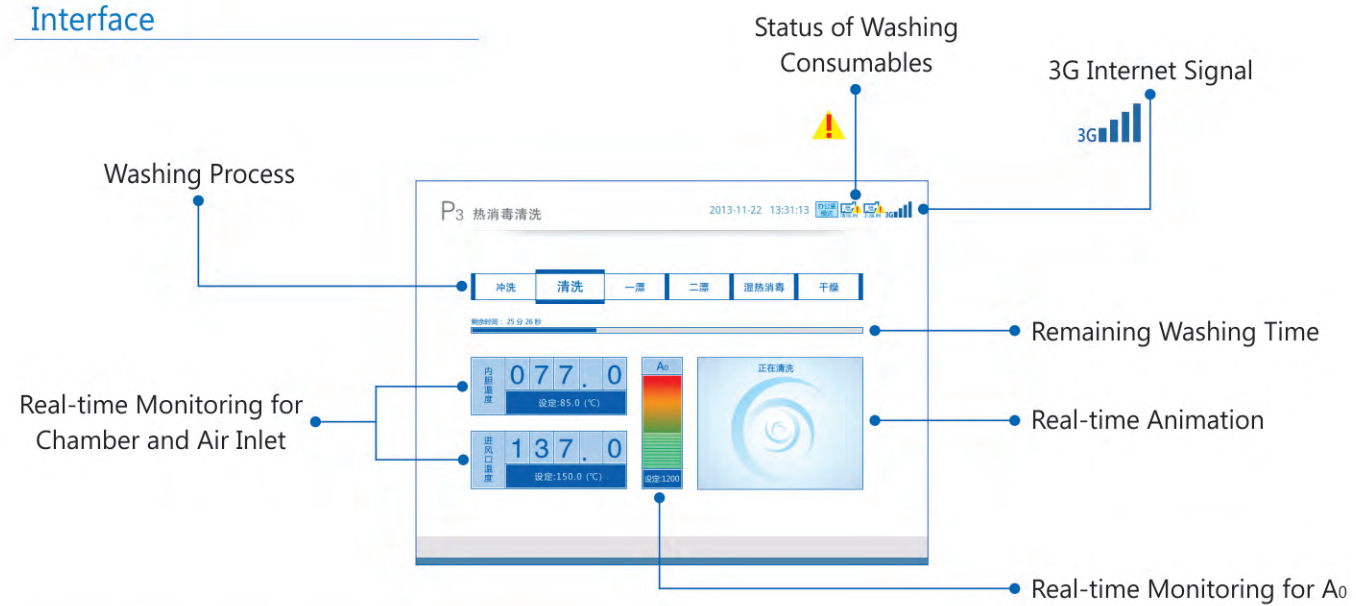


Circulating Pump(USA made)



Blower(Taiwan made)

Interface



China CDC(Centre for Disease Control) Test

Washing Effect

China CDC tests QPQ550 washer&disinfector by washing common surgical instruments, dental drill, anesthesia&breathing tubes, humidification bottles, and baby feeding bottle. The result of absorbance values of residual protein pollutant is less than 0.020, and approval rate is 100%

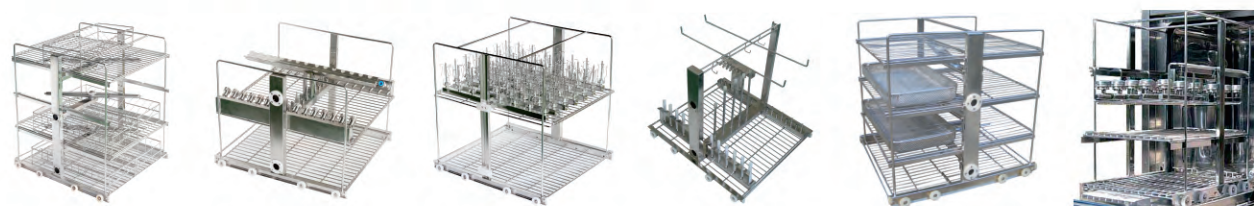
Disinfection Programme

China CDC tests QPQ550 washer&disinfector according to Sterilization Technical Standards and Programmes, including low temperature disinfection, high temperature disinfection and chemical disinfection, are approval.

Technical Specifications

Model	Power Supply	Temperature of Heat Sterilization	Capacity	Water Consumption /Cycle	Preset Programmes	Overall Dimension	Power
QPQ500	AC380V 50Hz	0 ~ 98℃	500L	30L	6	1870 × 1340 × 1026(mm)	35Kw
QPQ550	AC380V 50Hz	0 ~ 98℃	550L	30L	6	1870 × 1340 × 1026(mm)	35Kw

Racks for Full Automatic Washer Machine



Fully Automatic Washer Disinfector

QPQ-320/360



QPQ-320

QPQ-360



High Efficiency



Small Footprint



Large Capacity

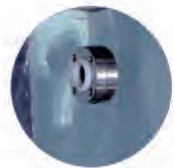


Synchronized Double-screen

0.5m²

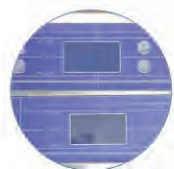
Small Footprint

The footprint is 0.5m², which is suitable for compact environment, such as operation room and CSSD.



Better Washing & Disinfection Result

The equipment is applied with high-speed elastic connector, which can reduce water pressure loss and improve the washing effect.



Synchronized Double-screen

Double 4 inch LCD synchronized display is convenient for operators in 2 areas. In decontamination area, operator can run the machine, and meantime, operators in clean area can monitor the running status of machine and get the printed record.

1.4x

Large Capacity

Instruments basket with dimension 485mm*285mm*60mm is 1.4times bigger than standard basket

15L

High Efficiency

15L water for each cycle; 30-50ml washing enzyme and 20-30ml oil for each cycle.



Matrix Printer

The printed record can be kept for over 3 years with the technology of collagen printer



Standard Spare Parts

Stand spare parts and pump of European origin.

China CDC(Centre for Disease Control) Test

Washing Effect

China CDC tests QPQ320/360 washer&disinfector by washing common operation instruments, dental drill, anesthesia&breathing tubes, humidification bottles, and baby feeding bottle, and the result is absorbance values of residual protein pollutant is less than 0.020, and qualified rate is 100%

Disinfection Programme

China CDC tests QPQ320/360 washer&disinfector according to Sterilization Technical Standards and programmes, including low temperature disinfection, high temperature disinfection and chemical disinfection, are qualified.

Certificates&Patents

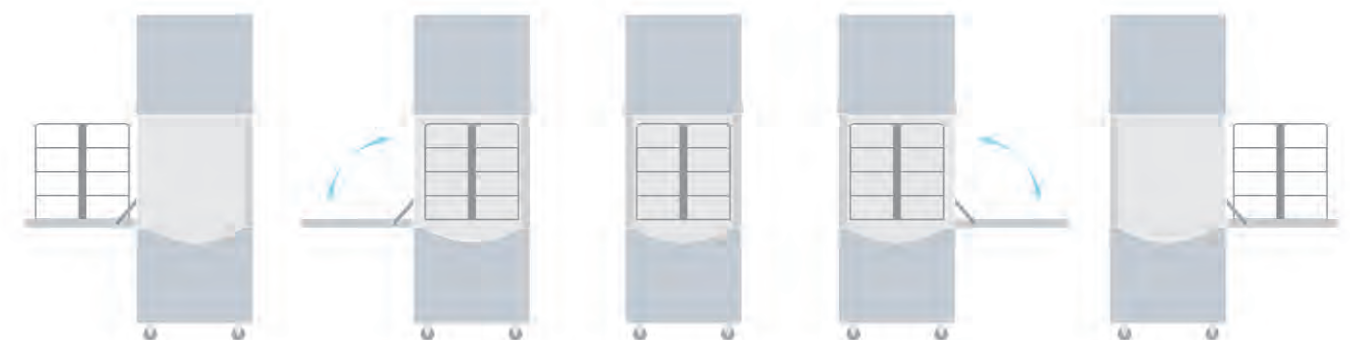
- Patent of high-speed elastic connector
- Patent of water cooling and drying device for washer disinfector
- Patent of washer disinfector with traceability
- Certificates of ISO13485, ISO9001, and CE, etc.



Technical Specifications

Model	Power Supply	Temperature of Heat Sterilization	Capacity	Water Consumption /Cycle	Preset Programmes	Overall Dimension	Basket	Power
QPQ360	AC380V 50Hz	20 ~ 98℃	360L	15L	6	1865 × 700 × 700(mm)	10	17Kw
QPQ320	AC380V 50Hz	20 ~ 98℃	320L	15L	6	1860 × 700 × 700(mm)	8	17Kw

Operation Instructions



- Load items in decontamination area
- Close front door in decontamination area
- Washing and disinfecting
- Open back door in clean area
- Unload items in clean area



Fully Automatic Washer Disinfector

QPQ-200



Product Features

- Humanized control system and easy operation;
- Single door, small footprint;
- Shorter cycle time and higher efficiency.

Range of Application

Surgical instruments, dental equipment, and endoscopy, etc.

Larger Capacity

Instruments of 2 operation and 24 dental drills.



Full Automatic Washer&Disinfector

QPQ-60 (Benchtop)



Product Features

- Benchtop; Space-saving
- Small Size and it can be easily moved
- Shorter cycle time and higher efficiency

Range of Application

Surgical instruments, dental Equipment, and endoscopy, etc.

Capacity

Instruments from 1 operation and 12 dental drills



Technical Specifications

Model	Power Supply	Capacity	Preset Programmes	Overall Dimension
QPQ-60	AC220V 50Hz	60L	P1:Standard Washing(28min)、P2:Quick Washing(11min)	570 × 470 × 500(mm)



Neutral multi-enzyme detergent

- Brand new efficient formula, containing multiple biological enzymes.
- Excellent wettability and permeability, it can decompose human excrement such as dried blood, fat, mucous, polysaccharide carbohydrates.
- Non-corrosiveness, no undesirable effect to products made of metal, plastic, glass rubber, etc.
- Low foaming; easy clean; environmental friendly.



Instrument quick-drying lubricant

- Concentrated formula; protection film developed by this lubricant can be penetrated by sterilizing factor, taking no effect to sterilization.
- Used to lubricant and protect the cleaned medical equipment against rust. Develop protection film on the equipment surface to reduce corrosion.
- Lubricant the joints of equipment effectively which can make the medical equipment more maneuverable.
- Anti-corrosion; extend the service life of the equipment.
- Low-foaming, no residual spots and water stain and maintain the brightness of the equipment.
- Non-toxic and non-irritating with mild nature; environmental friendly.



Rust remover

- Remove the rust and stain quickly on the medical equipment formed by multiple reasons.
- High active ingredient content and one-time compound dose can be used for a few times.
- Maintain colorless and transparent during derusting process; convenient to observe rust removing effect.
- Good adaptability to water quality; Easy cleaning, no residual.



Efficient reverse osmosis antiscalant/dispersant

- Compatible with organic flocculants and ST flocculants.
- Apply to the main membrane modules of reverse osmosis, nanofiltration and ultrafiltration.
- Effectively control the scale formation of inorganic substance such as calcium carbonate, calcium sulfate and barium sulfate ;form no scale even when the Langelier saturation index(LSI) reach 3.0.
- Have enough dispersing capacity to disperse the obstructive particulate on the membrane surface.
- Excellent Solubility and stability.
- Compatible with aluminum and iron of the influent water.
- The antiscalant is effective when the PH value of the influent value ranges from 5 to 9.



Multi-enzyme humectant

- Specialized moisturizing formula; effectively avoid the pollutants from drying and improve the cleaning effect.
- Strong long-lasting foam effectively lock the pollutants, without overflowing; reduce the harm and pollution to staff and the environment.
- With multi- enzyme activity, the humectant can dissolve pollutants such as blood, fat, protein and organic mucosa.
- The PH value is neutral. No corrositivity.
- Safe for instrument, equipment and parts made of rubber, plastic, stainless steel, carbon steel and soft metal.
- Non-toxic; 100% biodegradation; environmental friendly.
- No need to dilute.



OPA Disinfectant

- OPA (Ortho-phthalaldehyde) disinfectant is a new type and high efficient disinfectant. It overcome the volatility and high irritation of high toxicity of traditional glutaraldehyde. It has broad spectrum and high efficient, safe and stable and is regarded as the comprehensive substitute of glutaraldehyde disinfectant.
- It five minute, the disinfectant can kill gut bacteria, pyogenic coccus, mycobacteria, pathogenic yeasts, bacteria spores, which is twenty times efficient than that of the traditional aldehydes.
- No need to dilute, no need to activate.
- Stable physical property and chemical property. A bucket can be used for 14 days maximum.
- Strong resistance to acid, alkaline and organics.
- No corrosion to products made of stainless steel, carbon steel, copper, aluminum.
- Non-toxic substance; no volatility; no stimulus; non carcinogenic, teratogenic and variant substances.



Hyamine disinfectant

- Broad-spectrum anti-virus: the disinfectant can kill gut bacteria, pyogenic coccus, pathogenic yeasts and other commonly seen bacteria.
- Security: Non-toxic substance; The applied solution after dilution is stable with no stimulus, no volatility, no poisonous residue.
- Stability: resistant to light, high and low temperature; high solubility; stable chemical property; long-term storage.
- Used by a hundred dilution, low bactericidal concentration; rapid and strong effect; convenient to use.