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# Healthcare Products & Solutions

Intelligent Protection  
of Life Science

Your Haier Biomedical Partner

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Note: If a slight difference occurs between pictures and actual products, please refer to actual products. Our company reserves the right of final interpretation of this brochure, please contact us for any further information if required.

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Smart Mobile Clinic Inoculation Solution

Convenient inoculation clinic, mobile health care security

The health care solution improving medical services by reaching remote and hard to reach locations, such as towns, small villages and mountainous regions.



Social Benifits



Improved and convenient vaccination services

Innovative and modern solution service for mobile vaccination needs, the Haier Biomedical comprehensive mobile solution is fitted with critical medical equipment generally found in a clinic.



Improve the access to immunization services

The mobile vaccination platform has extended its coverage to more remote mountainous areas and villages.



Promote and improve the equity in immunization services

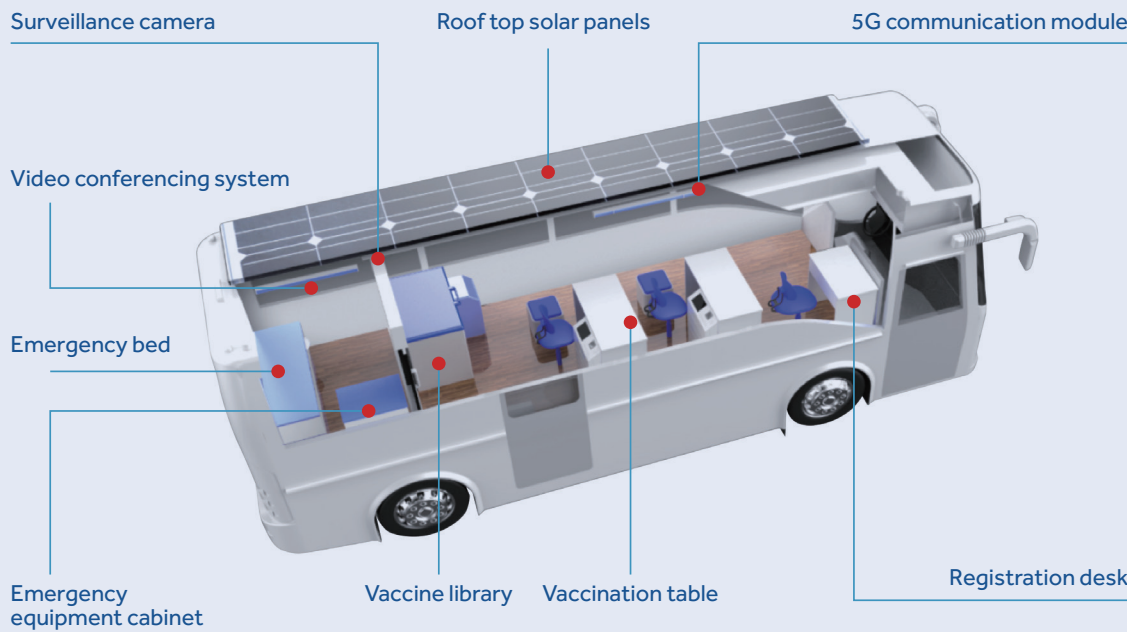
Improve the quality of health services for people in remote, rural and disaster-hit areas, and ensure that children in these regions as well as migrant children receive the same medical treatment as urban children, thus promoting fairness in immunization services.



Guarantee the accuracy and immediate reporting of data and information remotely

Digital inoculation management. Records of the whole process are traceable. The inoculation data is connected with the disease control system in real time to ensure the accuracy and timeliness of the information.

Product Parts Diagram



Parameters

Item	Inoculation Refrigerator			Solar Direct Drive Combined Refrigerator/Freezer			
	Operating Temp (°C)	Storage Temp (°C)	Vaccine Capacity (vial)	Vaccine Capacity (vial)	Refrigerating Volume (L)	Freeze Protection Grade	Freezing Volume (L)
Parameter	5~43	2~8	200	300	37.5	A	32

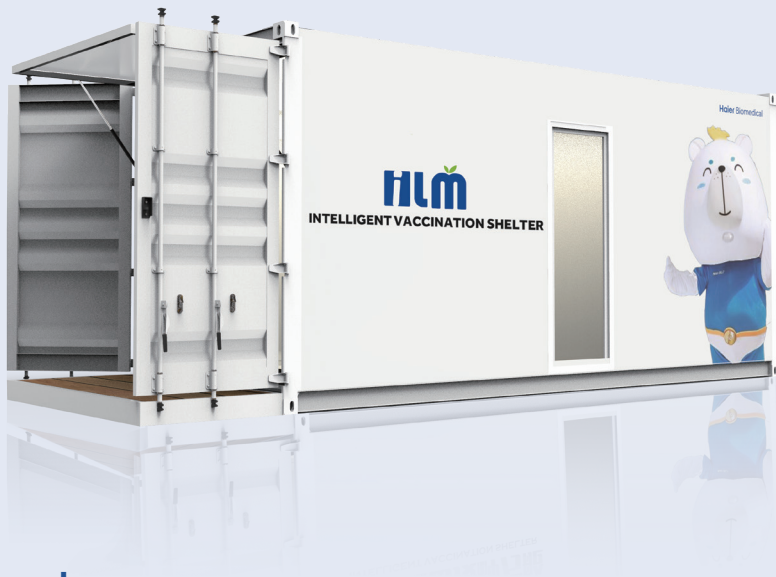
Item	Power Supply (battery)		Medical Vehicle						
	Duration	Charging Time (h)	Double Tanks (L)	Fuel Consumption (L/km)	Maximum Mileage (km)	Length (mm)	Width (mm)	Height (mm)	Weight (t)
Parameter	3 refrigerators running for 1.5days (6h/day)	10	2*100	18/100	100	8995	2500	3680	11.9

\*Haier Biomedical reserves the right to change products and specifications without prior notice.

Intelligent Vaccination Shelter


Secure, Fast & Reliable Vaccination Facility Guaranteed Vaccination Safety

It is suitable for vaccination in vaccination centers, hospitals, CDC, schools, large enterprises and other institutions; the shelter is movable and applicable for vaccinating in large batches.



Product Advantages

- 

**Shelter Structure**  
The unit is low cost and mobile, can be deployed rapidly and it has small footprint.
- 

**Intelligent Monitoring System**  
Independent monitoring of each operation area to achieve real-time supervision and inspection of the whole process of vaccination.
- 

**Vaccine Storage Equipment**  
Equipped with an 8-small-drawers vaccination refrigerator with superior temperature uniformity and a solar direct drive refrigerator with long holdover time.
- 

**Air Disinfection System**  
Equipped with air purification sterilizer and ultraviolet disinfection, the cabin environment is safer.
- 

**Storage Cabinet**  
Equipped with a number of storage cabinets for storage of inoculation cotton swabs, disposable needles and other items.
- 

**Customized Internal Layout Scheme**  
Designed to suit multiple shelter schemes and can be customized according to user needs.

Top Layout View

The shelter is divided into three areas: registration area, vaccination area and cold chain area. Pre-check and registration of vaccination are conducted in the registration area. Vaccination is carried out in the vaccination area, and solar direct drive refrigerator is placed in the cold chain area.



Vertical View



Right View



Left View

Specifications

Product Name	Power Supply (V/Hz)	Power (W)	Exterior Dimensions (W*D*H mm)	Interior Dimensions (W*D*H mm)	Weight (Kg)
Intelligent Vaccination Shelter	220 (110)/50 (60)	2,500	6,100*2,400*2,600	5,700*2,300*2,200	3,500

\*Haier Biomedical reserves the right to change products and specifications without prior notice.



Mobile Vaccination Medical Trailer

Convenient inoculation with ice-lined refrigerator for long time storage of vaccines

This product is applicable for convenient vaccination of hospitals, CDC, schools, large enterprises and other institutions as key examples.



Social Benifits

**Convenient**

The trailer is easy to move and can travel fast

**Safe and secure**

- Equipped with air purification sterilizer and ultraviolet light for inside disinfection
- Equipped with ice-lined refrigerator for long time vaccination preservation under power-off conditions

**Intelligent**

- The whole vaccination process is traceable
- Vaccine is automatically selected and delivered accurately with no error
- Immediate freezing of vaccines upon expiration or in question

Product Advantages

- Rapid deployment**

This product has short production cycle and fast deployment time.
- Mobile and convenient**

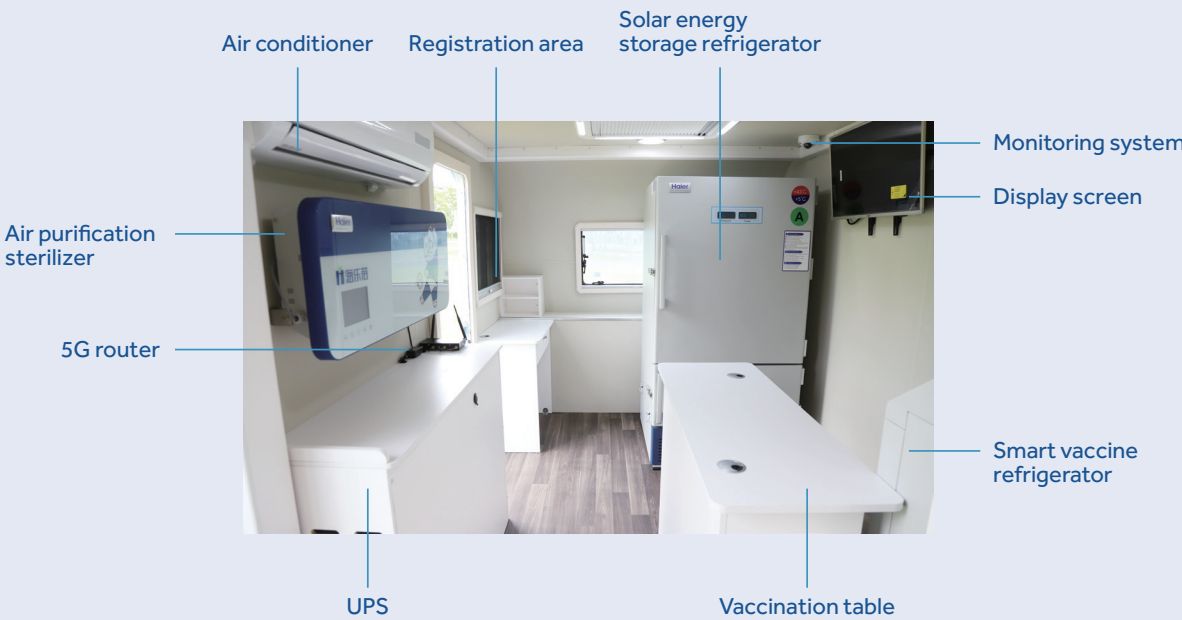
The medical trailer can be towed easily and quickly, and it is equipped with an ice-lined refrigerator for long time vaccination preservation under power-off conditions.
- Reasonable partitions**

The trailer is divided into registration area, inoculation area, cold chain storage area and other functional areas to ensure smooth inoculation process.
- Vaccination Information is Traceable**

The whole vaccination process is traceable and it can accurately select and deliver the vaccine with no error, plus immediate freezing of vaccines upon expiration or in question, ensure the high reliability of the vaccination programme.
- Other functions**

- Intelligent monitoring system
  - UPS – 2 hours power supply
  - 5G routing system
  - Air disinfection system

Product Parts Diagram



Parameters

Power Supply (V/Hz)	Power (W)	Exterior Dimension (mm)	Interior Dimension (mm)	Weight (kg)	Maximum Load (kg)	Shock Adsorption Mode
220 (110)/50 (60)	2500	5665*2300*2725	5500*2100*1935	1500	1700	Plate spring type

Wheelspan (mm)	Tyre Size	Wheel Base (mm)	Traction Form	Weight (kg)	Maximum Travelling Speed ((km/h)
1965	195/70R15LT	3490	Removable fixed type	1500	100

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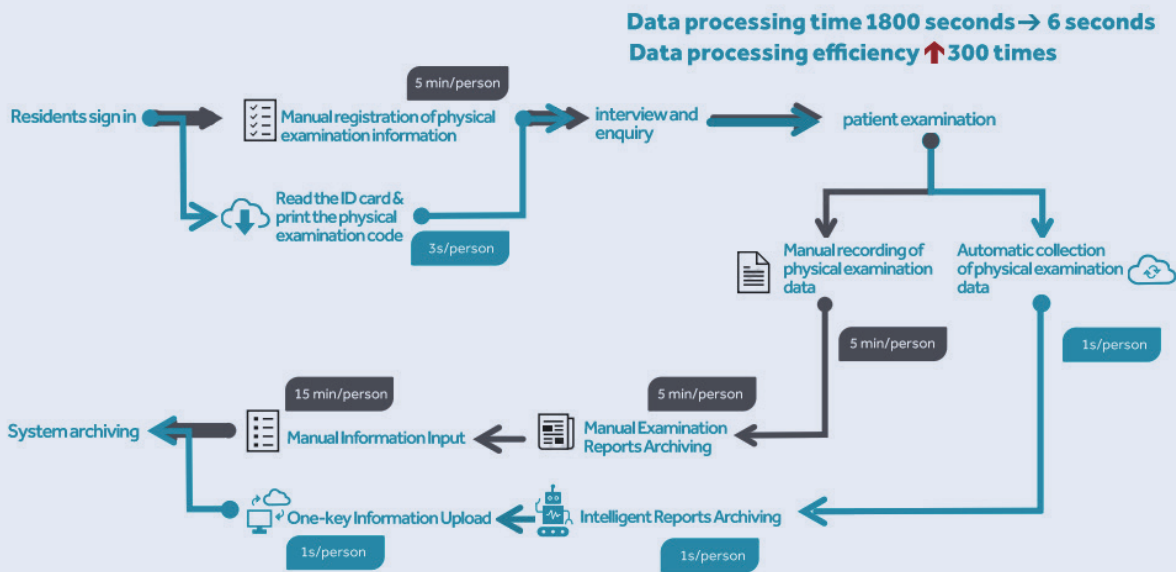
Digital Mobile Public Health Examination Vehicle



Product Advantages

- The physical examination check list includes 8 major projects and over 50 items. The system can collect and transmit the health data accurately and the health check report can be ready right after the examination without waiting.
- Paperless data record, intelligent electronic filing, convenient uploading of physical examination data.
- The vehicle is equipped with a 32inch intelligent TV, a waterproof sound bar and a wireless microphone for publicity.
- The product provides a mobile health check solution, and it's convenient and fast for public health check.

Traditional Health Examination Workflow VS Digital Health Examination Workflow



Physical Examination Projects

Height and Weight	2	
Blood Pressure	1	
Routine Blood Test	18	Hemoglobin, white blood cells, platelets, etc
Routine Urine Test	11	Urine protein, urine sugar, urine ketone body, urine occult blood, etc
Blood Glucose	1	FBG (fasting blood-glucose)
Electrocardiogram (ecg)	2	Normal and abnormal (including explanatory reference data)
Biochemical	Liver function	Serum alanine aminotransferase
		Serum glutamic oxalacetic transaminase
		Total bilirubin
	Total bilirubin	Serum creatinine
		Blood urea nitrogen
	Blood fat	Total cholesterol
		Triglycerides
Triglycerides	5	Black and white abdominal B-ultrasound

Product Specifications

External Power System	2 external ports for connecting to mains, 30 meters cable tray (taken with car)
Emergency Power System	3KW inverter power supply /UPS emergency power supply
External Publicity System	32inch intelligent TV, sound effect, waterproof sound column, wireless microphone
Service Facilities	Manual sunshade, liftable stool, fire extinguisher, medical trash can, stainless steel folding stretcher
Medical Equipment and Facilities	Automatic biochemical analyzer, urine analyzer, blood cell analyzer, electrocardiograph, color B ultrasound, blood pressure meter, height and weight scale, medical centrifuge, water purifier, medical refrigerator, first aid kit
Vehicle System	Public health data cloud platform, report printers, bar code printers, ID card readers, computers, networks, accessories

Basic Vehicle Parameters

Vehicle Model	AP8806PA046
Length (mm)	5785
Width (mm)	1998
Height (mm)	2635 (Overhead air conditioner)
Vehicle Interior Height (mm)	1680



## Biosafety Screening Swab Booth

Applicable for the safe sample swab of biological samples in CDC, hospitals, community health service centers, railway stations, airports, customs and third-party testing institutions as key examples.

- Adjustable height, optional configuration



### Social Benifits



- Intelligent Design**
- Features a 7inch touch screen, which can adjust device parameters and control UV light, booth lighting and the fan
  - Microprocessor-controlled EC fan, which can adjust the compressor speed and make sure the pressure inside the chamber is stable



- Ergonomics Design**
- Waste area, sample area and sitting area are separated, which makes it more comfortable for medical professionals
  - Equipped with 1.5p cooling and heating air conditioner



- Safe and Secure**
- G4+H14 dual filtration system, the 0.3 μm particle filtration efficiency is up to 99.999%
  - UV light supports scheduled elimination and will turn off automatically when people enter
  - Sensing hand disinfection which is separated from disinfection of waste area, to avoid cross infection



- Superior Performance**
- Microprocessor-controlled EC fan, stable positive pressure chamber
  - Equipped with Haier HD display and Haier primary energy efficiency air conditioner

### Specifications

Model	HCYZ-160S
Power Supply (V/Hz)	110~220/50/60
Power (W)	1300
Exterior Dimensions (W*D*H)(mm)	1600*1800*2200
Weight (kg)	600
Positive Pressure (Pa)	30±5 (Infinitely adjustable-speed)
Filtration Class	G4+H14
Air-conditioning Energy Efficiency	Primary energy efficiency
HD Display Screen (inch)	19

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## Solar Powered Medical Laboratory

Designed for collection, screening and analysis of infectious disease samples in remote areas.



### Product Features



- Thermal Insulation**
- The glass facade adopts double-layer hollow tempered glass, and three-layer double-cavity hollow glass can be used in extremely cold areas, which has strong thermal insulation performance; The heat transfer coefficient of the wall is only 0.21W/m2K, which is one thousandth of that of aluminum alloy materials.



- Insulation lightning Protection**
- When it is located at the top of the mountain or in open terrain, it can be equipped with lightning protection device; It is not required to be equipped in general areas. The outer wall is made of inorganic non-metallic materials, which is a good insulator.



- Waterproof and Impermeability**
- The exterior wall is made of aluminum-plastic board, which has the advantages of waterproof, anti-corrosion and wear resistance.



- Windproof and Earthquake Resistant**
- The anti typhoon grade is 11 and the seismic coefficient is 8



- Snow Load**
- The maximum snow thickness on the roof is 1m.



- Service Life**
- The service life of the major structure is 50 years.

### Product Advantages



- Water supply and drainage system:**
- Equipped with special water storage tank (> 200L), circulating water supply, induction faucet and water volume regulating valve, and the laboratory is equipped with hand washing basin and eye washer
  - Equipped with sewage collection box (> 300L), sewer pipe with reflux device



- Complete power supply system:**
- High efficiency solar panels, control inverter integrated machine, battery and other power supply system, can provide about 20 degrees of electricity every day, to ensure the operation of large power consumption equipment such as air conditioning; (Can be configured according to user requirements)



- Functional interior divisions: reagent preparation area, analysis area and equipment room



- Configure access control system and unlock fingerprint




- Reagent preparation area and analysis area are equipped with ULTRAVIOLET disinfection lamp




- Surveillance cameras and mass storage devices are equipped outside the laboratory

Social Benifits


Integrated transportation by container



Integrated transportation by truck



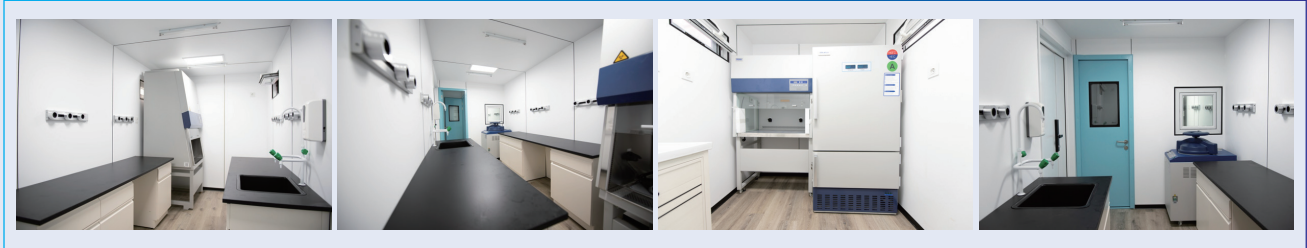
Integrated short-distance transfer by crane



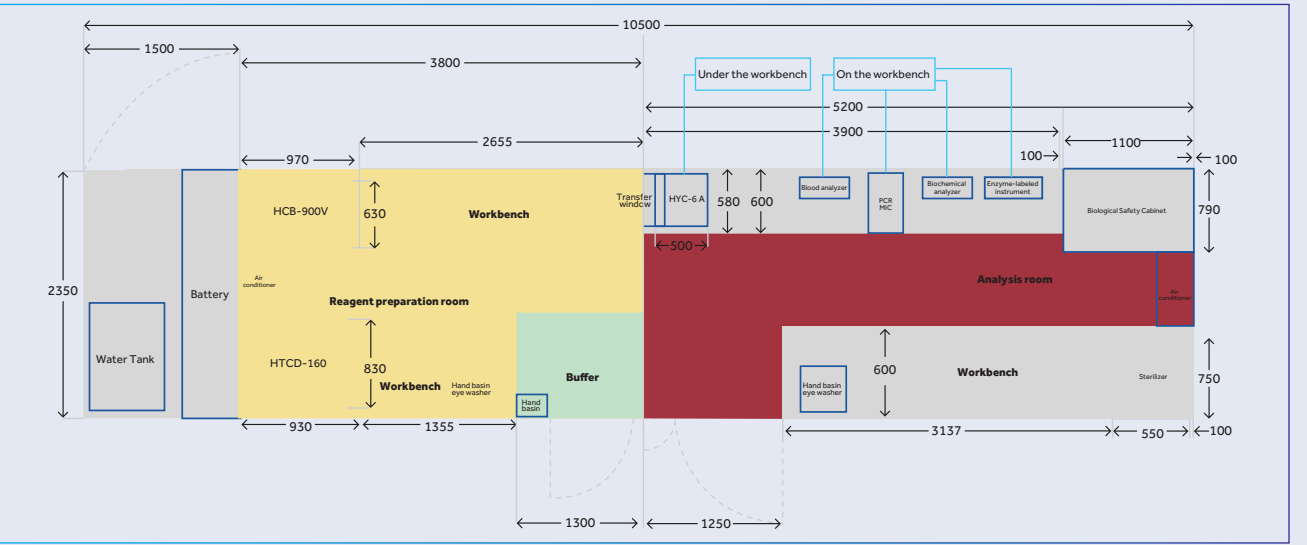
Installation and Deployment

Rapid deployment and installation (2 people \*2 days),fast put into use

Interior View



Interior Layout Design



Specifications

Product Name	Power Supply	Power (W)	Exterior Dimensions (W*D*H)(mm)	Interior Dimensions (W*D*H)(mm)	Weight (kg)
Mobile Solar Lab	220V/50HZ	4000	10200*2250*2350	10000*2050*2150	10000

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Solar Blood Donation Unit

The Unit is suitable for blood collection in densely populated areas, commercial blocks, campuses, factories , scenic spots, and temporary blood collection points of the army as key examples.



Product Advantages

- 

The device is cost-effective, transportable, fast to deploy and space-saving
- 

Conforms to international ergonomic dimensions
- 


Customized layout to meet user needs
- 


Internal space is in line with the operational procedural requirements of blood donors and medical staff
- 


Perfect space size ratio
- 


Humanized design: separate rest area for medical staff and privacy consultation area

Product Advantages

- 

**Solar Direct Drive Refrigerator**  
Long holdover time after power failure to ensure the safety of the stored blood
- 

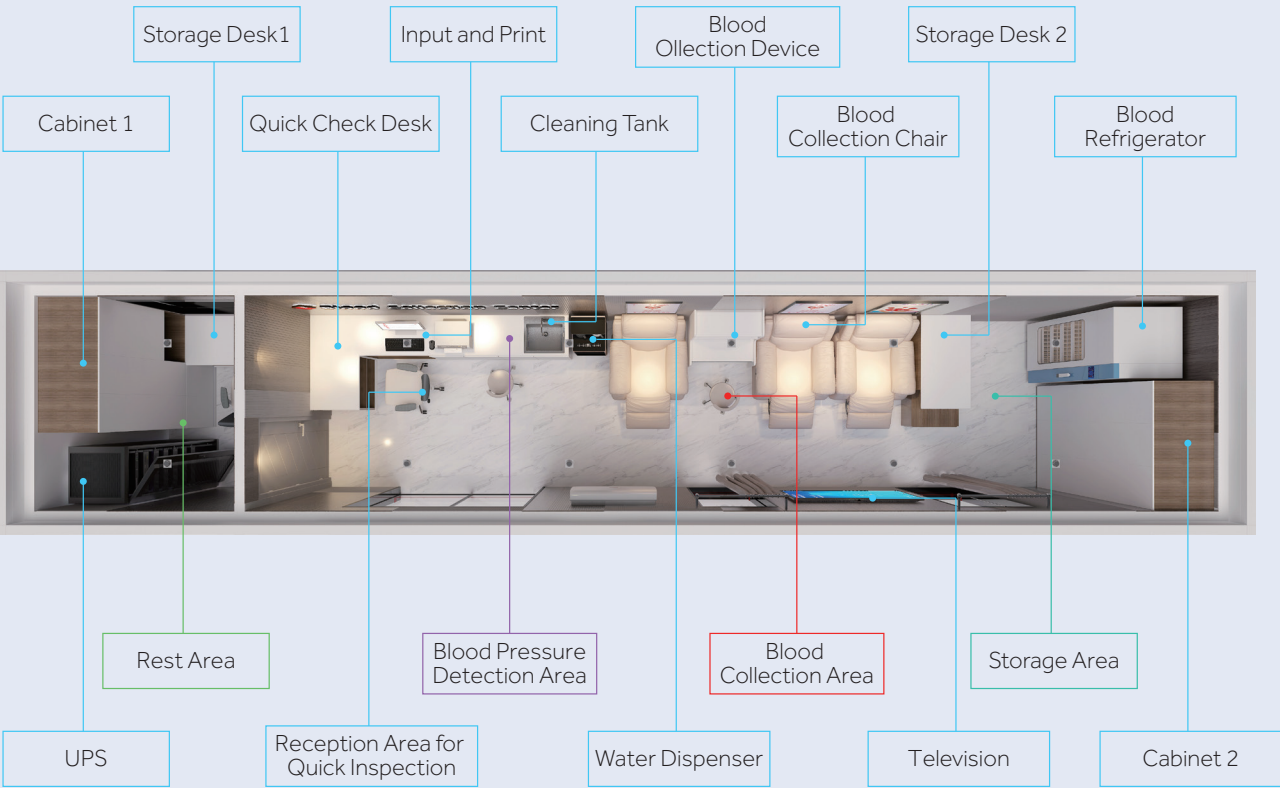
**Multiple Medical Storage Cabinets**  
Multiple storage cabinets are equipped to store vaccination cotton swabs, disposable needles and other items
- 

**Intelligent Monitoring System**  
Equipped with an intelligent monitoring system to independently monitor each operation area, so as to ensure the real-time supervision and inspection of the whole process from the consultation, quick examination to the blood donation
- 

**Intelligent Air Conditioner**  
Equipped with an intelligent air conditioner to ensure real-time temperature adjustment



Social Benifits



Specifications

Product Name	Power Supply	Power (W)	Exterior Dimensions (W*D*H)(mm)	Interior Dimensions (W*D*H)(mm)	Weight (kg)
Solar Blood Donation Unit	120-275VAC 40-70HZ	9000W (UPS)	12192*2438*2890	11832*2152*2400	4600 (Body Weight)

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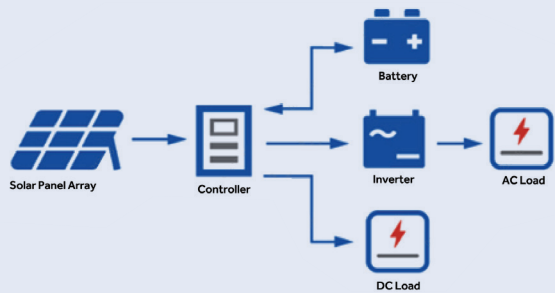
Solar Supply System

The system is suitable for areas where the electricity is lacking or the supply of stable power is impossible, which provides clean and reliable power for a wide range of facilitis including hospitals, clinics.

Different Specifications of Solar Power Supply System and Reference Load

No.	Solar Panel Power (W)	Battery Capacity (kWh)	Available Electricity (kWh)(reference)	Battery Type	Reference Load Category 1	Duration (Day)
1	450	25.6V*96Ah=2.457	1.7	Gel battery	Several lights 1 UV lamp 1 fan 1 laptop	2
2	335*4=1340	12V250Ah*2=6	4.2	Gel battery	Several lights 2 UV lamps 1 fan 1 laptop	4-5
3	375*4=1500	12V200Ah*6=14.4	10	Gel battery	Several lights 2 UV lamps 2 fans 1 laptop 1 vaccine refrigerator	>5
4	360*6=2000	12V200Ah*8=19.2	13.4	Gel battery	Several lights 2 UV lamps 2 fans 1 laptop 1 desktop computer 1 vaccine refrigerator	> 4
5	360*7=2500	12V250Ah*8=24	16.8	Gel battery	Several lights 2 UV lamps 2 fans 1 laptop 1 desktop computer 1 vaccine refrigerator	6
6	540*6=3240	2V300Ah*24=14.4	10	Gel battery	Several lights 2 UV lamps 2 fans 1 laptop 1 vaccine refrigerator	> 5

Schematic Diagram of Power Generation System



Note: The inverter and controller are integrated for some models

Reference Load Category 2	Duration (Day)	Reference Load Category 3	Duration (Day)	Reference Load Category 4	Duration (Day)	Maximum Load (W)
Several lights 2 UV lamps 1 fan 1 vaccine box	1	Several Several, 2 UV lamps 1 fan 1 desktop computer	1	-	-	300
Several lights 2 UV lamps 1 fan 1 desktop computer 1 laptop	2.5	Several lights 2 UV lamps 2 fans 1 laptop 1 desktop computer 1 vaccine refrigerator	1.5	Several lights 2 UV lamps 1 fan 1 vaccine box 1* 1P air conditioner	1	1200
Several lights 2 UV lamps 2 fans 1 laptop 1 vaccine refrigerator 1 freezer	2	Several lights 2 UV lamps 2 fans 1 laptop 1 desktop computer 1 vaccine refrigerator 1 freezer	1.5	Several lights 2 UV lamps 2 fans 1 laptop 1 desktop computer 1 vaccine refrigerator 1 freezer 1*1P air conditioner	1	1500
Several lights 2 UV lamps 2 fans 1 laptop 1 desktop computer 1 vaccine refrigerator 1 freezer	2	Several lights 2 UV lamps 2 fans 1 laptop 1 desktop computer 1 vaccine refrigerator 1 freezer 1 sterilizer	1.5	Several lights 2 UV lamps 2 fans 1 laptop 1 desktop computer 1 vaccine refrigerator 1 freezer 1 sterilizer	1.5	2700
Several lights 2 UV lamps 2 fans 1 laptop 1 desktop computer 1 vaccine refrigerator 1 freezer	3	Several lights 2 UV lamps 2 fans 1 laptop 1 desktop computer 1 vaccine refrigerator 1 freezer 1 sterilizer	2	Several lights 2 UV lamps 2 fans 1 laptop 1 desktop computer 1 vaccine refrigerator 1 freezer 1 sterilizer 1*1P air conditioner 1 television	1	2700
Several lights 2 UV lamps 1 fan 1 vaccine refrigerator 1 freezer	2.5	Several lights 2 UV lamps 2 fans 1 laptop 1 vaccine refrigerator 1 freezer	2	Several lights 2 UV lamps 1 fan 1 laptop 1 desktop computer 1 vaccine refrigerator 1 freezer 1*1.5P air conditioner	1	3000

No.	Solar Panel Power (W)	Battery Capacity (kWh)	Available Electricity (kWh)(reference)	Battery Type	Reference Load Category 1	Duration (Day)
7	345*14=4830	12V150Ah*40=72	50.4	Gel battery	Several lights 2 UV lamps 2 fans 1 laptop 1 desktop computer 1 vaccine refrigerator 1 freezer 1*1.5P air conditioner 1 television	4
8	660*8=5280	2V500Ah*24=24	16.8	Gel battery	Several lights 2 UV lamps 2 fans 1 laptop 1 desktop computer 1 vaccine refrigerator 1 freezer 1 television	2.5
9	445*16=7120	2V600Ah*24=28.8	20.2	Gel battery	Several lights 2 UV lamps 2 fans 1 laptop 1 desktop computer 1 vaccine refrigerator 1 freezer	3
10	540*18=9720	2V800Ah*24=38.4	26.8	Gel battery	Several lights 2 UV lamps 2 fans 1 laptop 1 desktop computer 1 vaccine refrigerator 1 freezer 1 television	3-4

Remarks: Gel battery is recommended, and other types of batteries can be configured as specified by customers;  
For the power supply system configuration list, please refer to other documents;  
The specific power and service time of the load are just for reference  
Note: The inverter and controller are integrated for some models

Electrical Load of Health Vaccination System

Load		Power (W)
Base Load	Light	20
	UV lamp	20
	Fan	60
	Laptop	60
	Desktop computer	200
Functional Load	Ice-Lined Refrigerator HBC-80	105
	Ice-Lined Refrigerator HBC-150	110
	Ice-Lined Refrigerator HBC-260	230
	Vaccine & Icepack Freezer HBD-116	138
	Vaccine & Icepack Freezer HBD-286	185
Electrical Appliances	Air conditioner 1P	735
	Air conditioner 1.5P	1100
	32 inch TV	200
Sterilizer	High pressure steam Sterilizer HRLM-80	3200
Heavy Load	10 cubic meters cold room	
	30 cubic meters cold room	
	40 cubic meters cold room	



## Mobile Container Clinic

Designed for vaccination of children in remote areas, routine physical examination of pregnant women and children, water-supply station and healthcare vaccination facility



### Product Features

- Mobile Vaccination Shelter
  - Mobile Basic Medical Shelter
  - Solar Direct Drive and Long Holdover Time After Power Off, Safe Vaccine and Medicine Storage
- Rapid Deployment and Ready-to-use
  - Clean and Comfortable Environment

### Product Advantages

- Shelter Structure**  
The mobile and cost-effective unit can be deployed rapidly with less footprint
- Vaccine and Medical Storage Equipment**
  - Equipped with solar direct drive refrigerator with long holdover time
  - Equipped with a number of storage cabinets for storage of inoculation cotton swabs, disposable needles and other items
- Intelligent Monitoring System**  
Independent monitoring of each operation area to achieve real-time supervision and inspection of the whole process of vaccination, diagnosis and treat

### Top Layout View



### Specifications

Product Name	Power Supply	Exterior Dimensions (W*D*H)(mm)	Interior Dimensions (W*D*H)(mm)	Weight (kg)	Solar Panel Power (W)	Battery	Nominal Capacity (Wh)	Maximum Power Output (W)
Mobile clinic	220/50Hz	6100*2400*2600	5700*2300*2200	3500	1500	Colloidal battery	14400	2000
Equipped with 1500W system, maintenance free colloidal battery, to provide daily stable and reliable power. (Can be configured according to customer load requirements)								

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Reference Load Category 2	Duration (Day)	Reference Load Category 3	Duration (Day)	Reference Load Category 4	Duration (Day)	Maximum Load (W)
Several lights 2 UV lamps 2 fans 1 laptop 1 desktop computer 1 vaccine refrigerator 1 freezer 1 sterilizer 1*1.5P air conditioner 1 television	3.5	1 cold room of 10 cubic meters	4	1 cold room of 30 cubic meters	2.5	6400
Several lights 2 UV lamps 2 fans 1 laptop 1 desktop computer 1 vaccine refrigerator 1 freezer 1 sterilizer 1 television	2	Several lights 2 UV lamps 2 fans 1 laptop 1 desktop computer 1 vaccine refrigerator 1 freezer 1 sterilizer 1*1P air conditioner 1 television	1.5	1 cold room of 10 cubic meters	1.5	3000
Several lights 2 UV lamps 2 fans 1 laptop 1 desktop computer 1 vaccine refrigerator 1 freezer 1 sterilizer	2.5	Several lights 2 UV lamps 2 fans 1 laptop 1 desktop computer 1 vaccine refrigerator 1 freezer 1 sterilizer 1*1P air conditioner 1 television	1.5	1 cold room of 10 cubic meters	1.5	4200
Several lights 2 UV lamps 2 fans 1 laptop 1 desktop computer 1 vaccine refrigerator 1 freezer 1*1P air conditioner 1 television	2.5	Several lights 2 UV lamps 2 fans 1 laptop 1 desktop computer 1 vaccine refrigerator 1 freezer 1 sterilizer 1*1P air conditioner 1 television	2	1 cold room of 40 cubic meters	1	6000

Remarks: Gel battery is recommended, and other types of batteries can be configured as specified by customers;  
For the power supply system configuration list, please refer to other documents;  
The specific power and service time of the load are just for reference  
Note: The inverter and controller are integrated for some models

## Electrical Load of Health Vaccination System

Reference Service Time (Hour)	Quantity	Power Consumption (kWh)
4	1	0.08
1	1	0.02
4	1	0.24
6	1	0.36
6	1	1.2
24	1	0.57
24	1	0.63
24	1	1.62
24	1	3.01
24	1	3.48
4	1	2.94
4	1	4.4
5	1	1
0.5	1	1.6
-	-	11.7
		17.6
		23.5

## Mobile PCR Testing Laboratory

Applicable to hospitals, third-party testing companies, ports, CDC; In addition to the on-site detection of pathogenic nucleic acid, the lab can also be used for emergency biological detection, providing a mobile, fast, safe, accurate and efficient technical inspection platform for emergencies and public health events.



### Product Advantages

**Solid and durable cabin**  
High strength, corrosion resistance, tight sealing, and excellent thermal insulation

**Superior materials of high safety**  
All parts of the cabin, including the partitions, ceilings, doors, windows, lamps, water pipes, and electrical components, are made of high-quality materials

**Sophisticated ventilation facilities and rain protection measures**

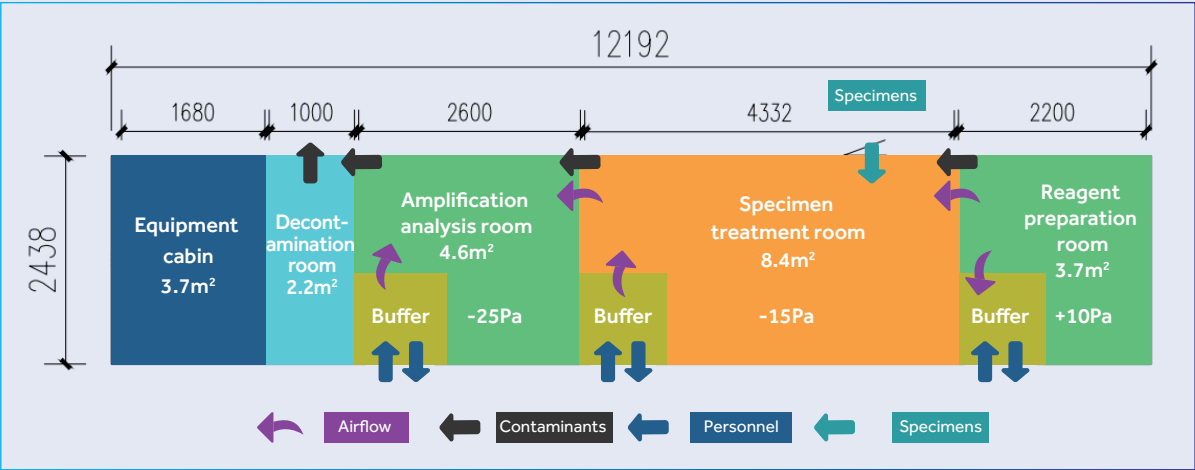
**Intelligent control system (IoT System)**  
Equipped with the Internet of things technology(IoT) and a touch screen to monitor device status and set device parameters

**Non-hazardous treatment of wastewater (ozone sterilizer)**  
Equipped with a special water storage tank to enable circulating water supply and a wastewater collecting tank to discharge wastewater upon ozone sterilization with the SIP (Sterilizing in Place) technology.

## Product Features

- BSL-2 Biosafety Laboratory design**  
ISO 8 cleanliness, and more than 12 air changes per hour.
- 3+2 Zone Division**  
3 core functional zones +2 auxiliary functional zones.
- Clear Logistics Channels**  
Separate channels are provided for personnel, specimens, and contaminants.
- Long Service Life**  
The service life of the cabin is ≥10 years.
- Airflow Design**  
Unidirectional airflow from the reagent preparation room to the amplification analysis room, with an adjustable pressure difference.
- Third-party TestingZone Division**  
After the construction of the cabin, a formal third-party testing institution is commissioned to test the relevant indicators inside the cabin and issue a test report with the official seal of the third party.

## Layout Plan



## Specifications

Product Model	Cabin Type	Exterior Dimensions (mm)	24h Testing Capacity	Power Supply (V/Hz)	Clean Class
YJF-12X1H	Single Cabin	12192*2438*2896	3000	380/50	ISO 8

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## Precautions for Transportation and Installation

- Transportation: The road width shall be no less than 5 meters, the height shall be higher than 4.5 meters. A 20-50t crane is required, and the road shall have a minimum turning radius of 22 meters.
- Foundation: It is a requirement that the foundation is level with hardened ground(20cm) or bearing columns (6 Pcs, 2.43\*0.3\*0.3m).
- Electrical: An external power port is reserved for connecting to 380V/50Hz AC.
- Water supply and drainage: The water supply connection is DN20 in size, while the drainage connection is DN50 in size; the water pipes shall be thermally insulated.



### Refrigerated Vaccine Vehicle

This product is suitable for cold chain transportation of drugs, vaccines, biological products, medical raw materials, fresh food and other products with strict requirements on temperature control.



### Product Features

- Double drive refrigeration system, can be powered by diesel generator or 220V AC
  - Safe and reliable
- Firm structure, suitable for complex road conditions
  - Low fuel consumption, high horsepower and low transportation cost
- +2°C~+8°C accurate temperature control, high uniformity
  - Thickened insulation layer, excellent insulation performance
- Strong after-sales service capability, after-sales network all over the world
- International brand refrigeration machine, high quality, strong performance
- Complies with WHO PQS Specification E002/RV01.2

### Precautions for Use

Vehicle Inspection

Interior Cabinet Cleaning

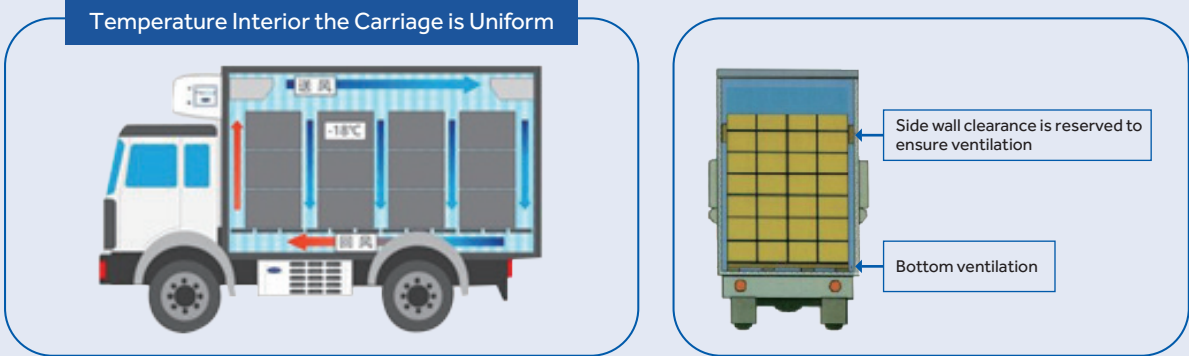
Precooling of the Cabinet

Correct Loading

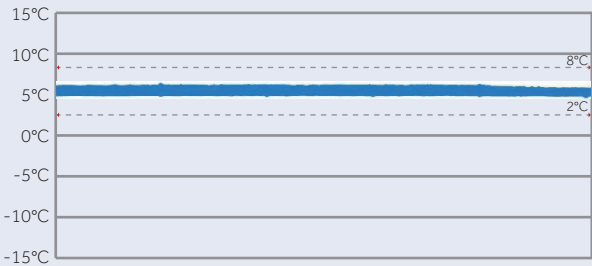
Turn on the Refrigeration Unit Regularly

Regular Maintenance

### Correct Mode of Loading



### Temperature Curve



Refrigerated medicines such as vaccines are transported at 2-8°C

### Specifications

Model		VR-23	
Refrigerated Vehicle	Combustion type	Diesel	/
	Engine emission	EURO VI	Options: EURO V/ EURO IV/ EURO III
	Steering wheel position	Left hand	Options: Right
	Transmission	4*2	/
	Gearbox	Manual	/
	Seats	3	/
	Color	White	/
	Cabin air Condition	Air condition+Heating	/
Refrigerated Body	Gross volume (m³)	23.5	Can be customized according to user needs
	External dimensions (mm)	5300*2500*2300	
	Internal dimensions (mm)	5100*2300*2100	
	Standard configuration	Dual rear doors	/
		LED lighting	/
		PVC curtain	/
		Foldable ladder	/
		Side door	/
		Lifting gear	/
		Shelves	/
Refrigeration unit	Optional	Air supply system	/
		Carrier	Options: Thermo King or other Chinese brands
	Brand	Carrier	/
	Temperature range	+2°C~+8°C	/
	Refrigerant	R452A	/
	Climate zone	Hot zone: 0°C~+50°C	/
		Cold zone: -20°C~+32°C	/
	Others	The refrigeration unit with 220V-240V stand-by power device and heating device	Options: 380V
Temperature monitoring and control device	Temperature monitoring range	+2°C~+8°C	/
	Data recording frequency	5 min	/
	Sensor type	Wireless transmission	Options: wire
	Alarm type	Voice alarm	/

Temperatures can be recorded electronically, downloaded and printed

\*Haier Biomedical reserves the right to change products and specifications without prior notice.

Air Purification Sterilizer

Bacterial and viruses inactivation rate>99.9% to reduce the infection rate of the vaccination staff; can reach class 100000 cleanliness after continuously operating for 1 hour, and release healthy negative ions, providing clean air for users to experience forest air quality. Applicable for schools, community hospitals, etc.

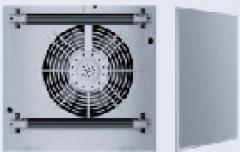


Triple Ultra-Strong Air Purification



Plasma Purification

When ionized by high positive and negative voltage, the air can produce a large number of positive and negative ions which will then neutralize with each other, releasing a burst of energy and killing the surrounding bacteria and viruses in an instant.



Ultraviolet PLUS Titanium Dioxide Photocatalyst Purification

The titanium dioxide photocatalyst will have photo-catalytic reaction under the bactericidal ultraviolet light emitted by the 254nm-wavelength dual UV lamps, producing highly oxidizing free hydroxyl groups and active oxygen to have the bacteria, germs, viruses and mold oxidized and decomposed.



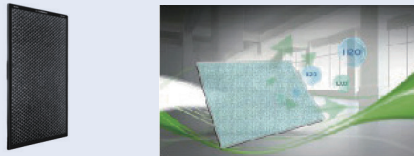
Nano-Silver Ion Filtration Layer Purification

Nano-silver ions have broad-spectrum strong bactericidal and antibacterial properties as well as strong permeability and can kill the bacteria and viruses on the filter surface in a few minutes.

Two kinds of filters can reach class 100000 cleanliness after operating for 1 hour



**Professional efficient filtration module:**  
Composed of front filter, pre-filter and high-efficiency HEPA filter screen; can realize a PM2.5 removal rate of > 99.9% after operating for 1 hour.



**Honeycomb type activated carbon absorbing mesh:**  
Adopts coconut shell-based activated carbon, which has an absorption area 65 times larger than that of an ordinary one, to absorb odors, and a professional cold catalyst to catalyze and decompose formaldehyde; can achieve a formaldehyde removal rate of > 95% after operating for 1 hour.

Fresh Air

Negative-ion generator can release negative ions with concentration of over 3 million pcs/cm<sup>3</sup> so that the user can enjoy clean air like immersing oneself in a forest.

Friendly Design



**Automatic Monitoring of Air Quality**  
Professional air quality monitoring module to display the air quality with light



**Freely Optional Intelligent Air Speed Control and Manual Control**  
Unique intelligent air speed function; can make adjustment automatically according to the air quality in position 1-5; also enables manual mode for position selection



**Filter/UV Light Replacement Reminder**  
Giving sound and light warning to remind the operators when service life of the filter module and UV light becomes no more than 10%; after replacement, the service life can be reset.



**Automatic Quiet Mode Switching Function**  
Professional photosensitive probe; can automatically switch to quiet mode when the light becomes dark, caring for the users' sleep quality



**Timed Shutdown Function**  
Timed shutdown can be set to guarantee using security and extend the service life



**Fault Warning Function**  
Gives sound and light alarm when the fan or the UV lamp is in fault

Specifications

Model	Voltage (V)	Power (W)	External Dimensions (W * D * H mm)	Net weight (Kg)	Noise Level dB (A)	Applicable Volume (m <sup>3</sup> )	Negative Ion Concentration	Clean Class	Ultraviolet Lamp Life (h)
YKJX-Y500	220/50	100	439*229*735	13	≤55	≤60	3*10 <sup>6</sup>	100000	6000
Disinfection effects	When operating for 90min, the killing rate of staphylococcus alba is > 99.9%. After operating for 120min, the average extinction rate of natural bacteria and viruses is > 95.4%								

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Robotic Mobile Hygienic Spray Carrier

The unit is primarily used for daily disinfection of public places such as hospitals, community health service centers, airports, hotels and subways.



Product Features

The atomization disinfection unit uses the robot as the carrier to autonomously move and deploy multi-point disinfection tasks. This is achieved by diluting the disinfectant to form tiny particles (mist), which can effectively kill microorganisms, bacteria, and viruses attached to the surface of an object. According to the actual disinfection needs of the location, it can autonomously plan the disinfection route, and is a fully automated mobile indoor unmanned disinfection carrier. The unit can sterilize 360° within the indoor environment and can disinfect 1000m3 areas in 15 minutes, reducing manual contact and avoiding the risk of personnel infection.

Specifications

Model	Remote Intelligent Control	Atomized Particle Size (μm)	Battery Capacity	Battery Life (h)	The Amount of Mist	Product Weight (Kg)	Product Size (W×D×H mm)
HBOT11A	Support	2~5	10400mAh/37V 20800mAh/37V (Optional)	3~4	Rotation adjustment 800~3000mL/h	42	540×360×1368
WBOT11U	Support	2~5	10400mAh/37V 20800mAh/37V (Optional)	3~4	Three gear adjustment (1200/2000/3000mL/h)	37	450×450×1360

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Aerosol Spray Sterilizer

This equipment is suitable for disinfection of viruses and bacteria in hospitals, schools, hotels, entry and exit inspection and quarantine, customs, transportation tools, elevators and other places, as well as immune administration in farms, veterinary hospitals, pet hospitals and animal epidemic prevention places

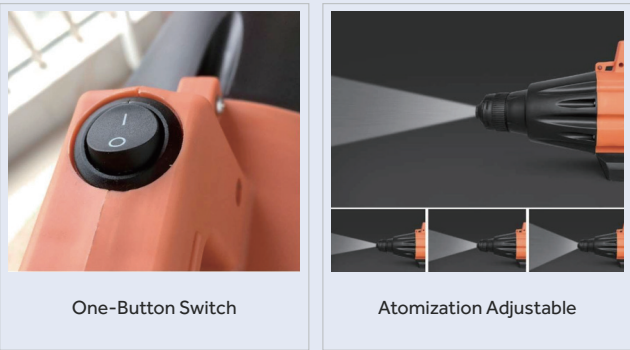


Product Advantage

- 1200W high-power centrifugal fan, larger air volume, stronger explosive force
- Two-stage advective air filtration system prevents particles from entering
- Corrosion resistant high strength engineering plastics as shell materials
- Cyclone cutting nozzle, atomization is fine and uniform
- Fan thermal protection, constant pressure output, long life
- Stainless steel spool, nozzle, can replace the nozzle to match different functions
- 10 meters national standard waterproof
- Wear-resistant drag chain power cord

Product Features

Cs-4010 series aerosol spray sterilizer (drug aerosol generator), installed with one-button switch, simple operation.Spray nozzle spray distance, fog droplets scattered, less aggregation, so the particle size of the spray is more detailed and uniform.By changing the nozzle to spray fog droplets of different particle sizes, the three nozzles correspond to spray particle sizes of 10 μm, 30 μm and 50 μm. Of which 10 μm or less can be used for inhalation administration;With finer atomization and larger surface area, 30 μm is suspended in the air for up to 15 minutes, which can effectively kill viruses and bacteria in the air.50 μm fog droplets can be deposited on the surface of the object to cover the surface of the object disinfection.



Specifications

Production Type	Rated Voltage/Frequency	Rated Power	Operating Temperature (°C)	Operating Humidity	No Wind Range (m)	Volume	Size	Grain Diameter
CS-4010	AC220V±10% 50Hz	1200W	0-40	30%-85%	>12	2L	52cm×14cm×23cm	D50=10μm 10μm±10μm D50=30μm 30μm±10μm D50=50μm 50μm±10μm
CS-4020	DC24V	300W	0-40	30%-85%	>8	2L	52cm×14cm×23cm	

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Three Different Oxygen Sources



Cylinder Oxygen



Liquid Oxygen



PSA Medical Oxygen

Three Types of Oxygen Sources

Cylinder oxygen VS Liquid oxygen VS PSA medical oxygen			
	Cylinder Oxygen	Liquid Oxygen	PSA Medical Oxygen
Pressure	High pressure 150kg/cm <sup>2</sup> ; filling pressure of 13-15Mpa	10kg/cm <sup>2</sup>	4.6kg/cm <sup>2</sup>
Safety	High pressure, high risk; Prone to accidents during transportation; Explosive in case of improper storage	Ultra-Low temperature (-183°C), easy to frostbite after leakage; Strong combustibility, explosive; The pipes and tanks vulnerable to damages	More safe, less instantaneous storage during the operation of the system; Precise monitoring system is switched off in case of danger; Normal temperature oxygen generation with little damage to the pipeline
Cost	High cost	Large evaporation loss	Low oxygen generation cost
Independency	Manual operation Price fluctuation Restricted by traffic	Manual operation Price fluctuation Restricted by traffic	Without manual operation On-site oxygen
Convenience	The oxygen cylinder needs to be changed frequently; Complex storage operation	Transported in tank trucks and complex operation; Difficult handling and storage condition, space consuming	Air as raw material, use immediately what are generated
Service Life	Repeated purchase	Tank body is inspected every 2 years and replaced every 5 years	The molecular sieve has a service life of 100,000 hours, operating for 11.4 years at full capacity

Different Oxygen Source Processes

o Liquid Oxygen

Liquid oxygen is a cryogenic liquid. Cryogenic liquids are liquefied gases that have a normal boiling point below -130°F (-90°C). Liquid oxygen has a boiling point of -297°F (-183°C). Because the temperature difference between the product and the surrounding environment is substantial—even in the winter—keeping liquid oxygen insulated from the surrounding heat is essential. The product also requires special equipment for handling and storage

o Cylinder Oxygen

After the liquid oxygen is gasified, the gaseous oxygen is pressurized into the cylinder by a filling machine

o PSA Medical Oxygen

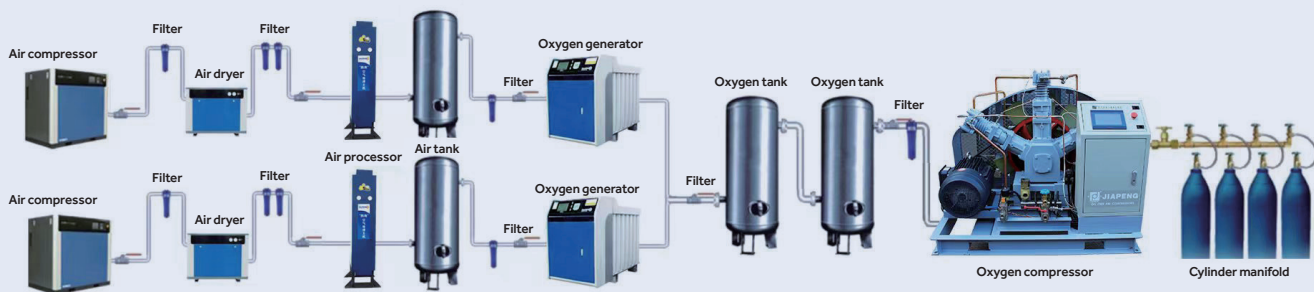
The oxygen is generated in a pure physical way through the physical characteristics under the conditions of normal temperature and low pressure. The oxygen concentration required by this method is 93 ± 3%, therefore the oxygen made by molecular sieve oxygen machine is also commonly known as "93 oxygen"

Scope of Application

Using air as raw material, PSA method is adopted to generate oxygen to meet the medical oxygen demand of general ward, intensive care unit(ICU), hyperbaric oxygen chamber, common operating room, abdominal operating room, thoracic and cerebral operating room

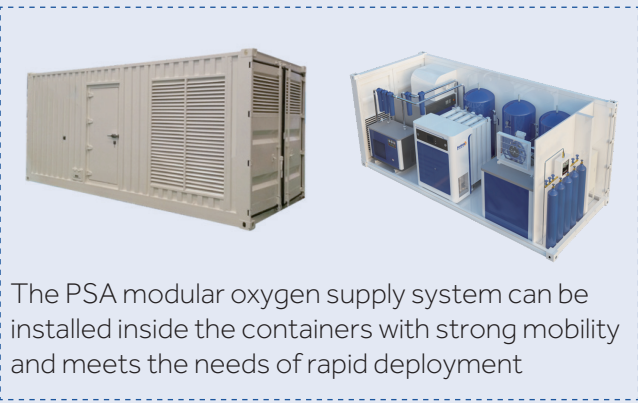


PSA Modular Oxygen Supply System



PSA modular oxygen supply system consists of air compressor, air dryer, air processor, air tank, oxygen generator, oxygen tank and filter. If re-filling is needed, then and oxygen compressor, cylinder manifold and oxygen cylinder are required

Applicable Scenarios



The PSA modular oxygen supply system can be installed inside the containers with strong mobility and meets the needs of rapid deployment



skid-mounted oxygen supply system without the construction of complex machine room, plug-and-play

Standard PSA Modular Oxygen Supply Models

Oxygen generation system				
Model	Oxygen Production (m³/h)	Exterior Dimension (mm)	Weight of Main Engine (kg)	Total power of oxygen generator system (kw)(single machine)
MZ-01	1/1.5	1860*750*1600	650	3.5
MZ-02	2/2.5	1865*750*1850	750	4.5
MZ-03	3	860*850*1240	250	6.5
MZ-05	5	1170*1190*1210	420	8.5
MZ-08	8	1290*1530*1240	700	13
MZ-10	10	1290*1700*1240	800	17.5
MZ-12	12	1290*1700*1241	900	25
MZ-15	15	1390*2240*1355	950	25
MZ-20	20	1400*1800*1240	1200	33.5
MZ-25	25	1390*2120*1355	1500	41
MZ-30	30	1390*2290*1355	1750	41
MZ-40	40	1800*2450*1290	3100	60.5
MZ-50	50	2130*2550*1270	3200	81

Machine Room Area as Reference

Model		Unit	MZ-05	MZ-10	MZ-15	MZ-20	MZ-25	MZ-30	MZ-35	MZ-40	MZ-50	MZ-60	MZ-80
Specifications	Oxygen Production	m³/h	5	10	15	20	25	30	35	40	50	60	80
Specifications of the machine room	Double Machine Weight	T	3	4.9	5.7	7.1	7.5	9	9.6	13.5	14	16.3	21
	Floor Space of Double Machine (Excluding Wall)	m (L*W)	7.3*5.9	8.4*6.3	8.6*6.5	8.9*6.7	9*8.0	9*8.2	9.2*8.5	10*8.8	10*9.0	11*10	12*10
		m²	43	53	56	60	72	73.8	78.2	88	90	110	120
	Net Height	m	3.5	3.5	3.5	4	4	4	4	4	4	4	4
	Reserved Transport Door	m	1.5*2.1	1.8*2.5	1.8*2.5	1.8*2.5	1.8*2.5	1.8*2.5	1.8*2.5	2.5*2.5	2.5*2.5	2.5*2.5	2.5*2.5
	Air Compressor Room Door	mm	480*440	625*360	625*360	710*725	710*725	710*725	730*490	1170*705	1170*705	1170*705	2850*915

Product Principle

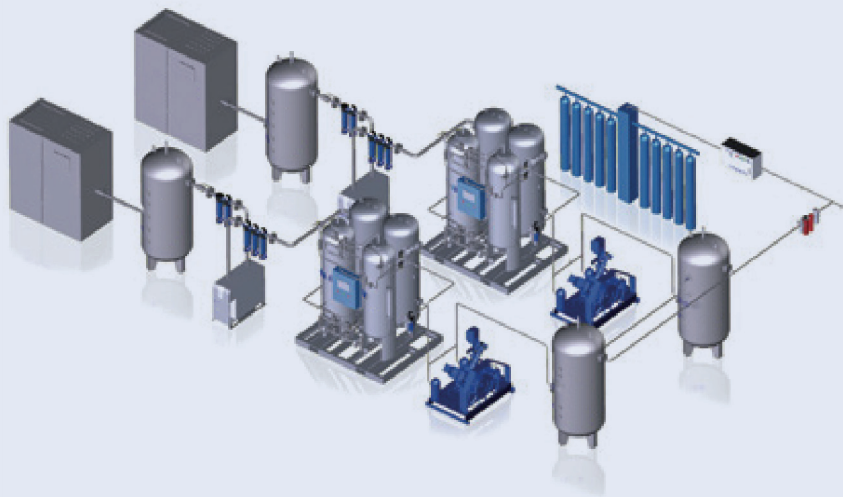
Twin-tower oxygen supply system is automatic equipment which adopts the molecular sieve as adsorbent, through the principle of pressure absorption and decompression regeneration, releases the nitrogen from the air and separate the oxygen of high purity.

Twin-tower oxygen supply system is designed for capacities higher than 25 Nm<sup>3</sup>/hour up to 95% purity and separate Oxygen from gases like Nitrogen, Argon and Carbon dioxide by retaining these gases in one of the towers and by regenerating the other one sequentially. It is mainly designed for on-site generation in hospitals, laboratories, oxy-fuel technology, welding, soldering, steel cutting, fish farming, ozone generation and wastewater treatment therefore it alleviates the logistical problems which arise from transportation of gas cylinders or liquid oxygen



Components

Twin-tower oxygen supply system consists of air compressor, air dryer, filter, PSA oxygen generator, oxygen filter, oxygen pressurization device, oxygen storage tank, oxygen monitoring system and backup system



Specifications

Model		CAP-O-3	CAP-O-5	CAP-O-10	CAP-O-15	CAP-O-20	CAP-O-25	CAP-O-30	CAP-O-40	CAP-O-50
Flow rate (Nm <sup>3</sup> /h)		1~3	3~5	5~10	10~15	15~20	20~25	25~30	30~40	40~50
O <sub>2</sub> purity (%)		Standard: 93±3			Optional 1: 95±1		Optional 2: 99±0.5			
Dimension (mm)	Length	1000	1300	1500	1700	1800	1800	1900	2100	2100
	Width	950	1200	1400	1550	1650	1650	1750	1900	1950
	Height	1580	1750	1850	2120	2250	2700	2700	2900	3100
Weight (kg)		515	694	1076	1352	1618	1899	2166	2633	3179

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## Oximeter

### Product Features

- Small and portable
- OLED dual-color
- Silicone finger mold
- 5 seconds access
- Automatic power off
- Blood oxygen, pulse, bar chart pulse display



### Product Features

- Gravity sensor
- One-key measurement, convenient and quick
- OLED HD display
- 4 seconds access
- Display oxygen saturation and pulse rate
- Customized alarm functions
- 7 seconds automatic power-off
- SpO<sub>2</sub> range 70%~100%; BPM range 50 bpm to 205 bpm
- Built-in silicone



### Specifications

	YK-80C	YK-82C	BSX255
Display Mode	OLED	OLED	OLED
Power Requirements	2pcs AAA-size batteries	2pcs AAA-size batteries	2pcs AAA-size batteries
Power Consumption	≤30mA	≤30mA	≤30mA
Dimensions	58x36x33mm	58x36x33mm	64X35X37mm
Weight	26.5g	26.5g	26.5g
CE/FDA	CE	CE and FDA	FDA

## Blood Pressure Monitor

### Product Features

- Large Display
- 2\*99 Memory Storage
- Micro-USB Power source
- WHO Standards



### Specifications

Model	BSX583
Product size (L*W*H) (mm)	132*112*71
Product weight (g)	410 (battery included)
Memory (groups)	2*99
Resolution	Pressure: ±3mmHg (±0.4kPa); Pulse: ±5%
Measurement range	0~290mmHg (0~38.66kPa); Pulse: 40~180 beats/min
Accuracy	Pressure: ±3mmHg(±0.4kPa); Pulse: ±5%
Power supply	4*AA battery(DC 6V)
Automatic power-off (s)	30
Box size (mm)	130*95*174
Carton size (mm)	495*277*365
Carton (pcs)	20
Gross weight (Kg)	10.56±1

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Portable Oxygen Concentrator



JAY-5BW



JAY-10W



CP303



CP502



CP801



CP101

Product Features

- High quality compressor: low noise level, low power consumption, and long service life
- High quality molecular sieve, durable and efficient
- High concentration oxygen generation, oxygen concentration above 90%
- Intelligent timing, set oxygen absorption time according to requirement
- Self-developed solenoid valve, high-performance, stable, and durable
- High quality technology and master designed circuit board
- Dow Corning material silicone tube, safe and odorless

Specifications

Model	JAY-5BW	JAY-10W
Flow Rate (LPM)	0-5	0-10
Purity	93% (±3%)	93% (±3%)
Outlet Pressure (MPa)	0.04-0.07 (6-10PSI)	0.04-0.07 (6-10PSI)
Sound Level Power (dB (A))	≤38	≤50
Consumption (W)	≤350	≤880
LCD Display	On/Off, operating pressure, current working time, accumulated working time, preset timer from 10mins to 40hours	
Alarm	Power failure alarm	Power failure alarm
Operation Interface	/	
Net Weight (kg)	16	27
Size (mm)	360×243×600	365×375×600

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Model	CP303	CP502	CP801	CP101
Flow (min)	0.5-3	0-5	0-8	0-10
Purity	0-3L/min, 93±3%	0-5L/min, 9±3%	0-8L/min, 93±3%	0-10L/min, 93±3%
Noise (A)	≤45	≤50	≤53	≤55
Voltage Frequency (V)(Hz)	220/50	220/50	220/50	220/50
Power Consumption (VA)	210	300	5500	700
Dimension (mm)	362*248*406	380*250*590	400*300*540	400*300*540
Dimension (kg)	9.3	14.5	19.5	20.5
Display Mode	LED	LED	LED	LED
Carton Size (mm)	410*285*465	470*370*590	470*370*590	470*370*590
Packing Weight (kg)	10.7	16.5	21.5	22.5

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Thermometer



AET-R1B1



AET-R1D1

Product Advantages

- Highly sensitive infrared probe
- Noncontact measurement
- 1 second measurement

Product Features

• LED Digital Display

The reading in the black display box is clear and easy to obtain the temperature value.

• One Machine Multi-purpose

The human body/environment mode is automatically switched which can measure the forehead and the ambient temperature giving more comprehensive care.

• 1 Second Measurement

High sensitive infrared temperature measurement, the temperature value can be measured in one second. It is suitable for multi person temperature measurement or multiple temperature measurement comparison.

• Ergonomic Design Comfortable to Hold

With comfortable hand grip, it is easy and solid to hold.



measure forehead temperature



measure environmental temperature



Led Display



Measure in 1s



°C/°F Switch



Intelligent Accurate



Automatic Shutdown



One Button Measurement



Memory Storage



Replaceable Battery



Forehead Measurement



Personnel Fever Alert

Specifications

Model	AET-R1B1	AET-R1D1
Product Size (mm)	144*101*26	37*37*138
Product Weight (g)	88 (exclude battery)	47(exclude batteries)
Gross weight (Kg)	6.6	10.5
Memory (groups)	32	32
Resolution (°C)	0.1	0.1
Measurement range (°C)	32.0~42.2	32.0~42.2
Accuracy (°C)	±0.2 (35.0~42.0) ±0.3 (32.0~34.9) / (42.1~42.2)	±0.2(35.0~42.0) ±0.3 other range
Power supply	2*AAA (DC 3V)	2*AAA Batteries(DC 3V)
Automatic power-off (s)	60	60
Box size (mm)	175*120*50	65*45*190
Carton size (mm)	380*370*375	470*410*405
Carton (pcs)	42	120
Cubic meter (m³)	0.05	0.078

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## Automated External Defibrillator

The product is applicable for the government, schools, stations, airports, hospitals, communities and other scenarios as key examples.



### Product Advantages



#### Accurate and Efficient

- Multiple gears with low energy defibrillation
- Accurate read of heart rate with strong anti-interference ability
- Analysis and charging at the same time for quick rescue



#### Customized Functions

- Optional Scenario module
- Customized parameter Settings
- Fine cost control



#### Intelligent and Convenient

- Automatic self-check for all functions
- Independent management
- Over 40K data records for history review

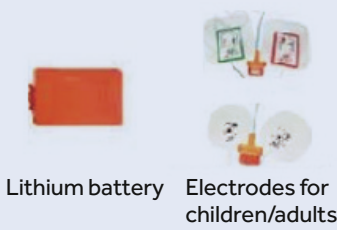


#### Intelligent Management

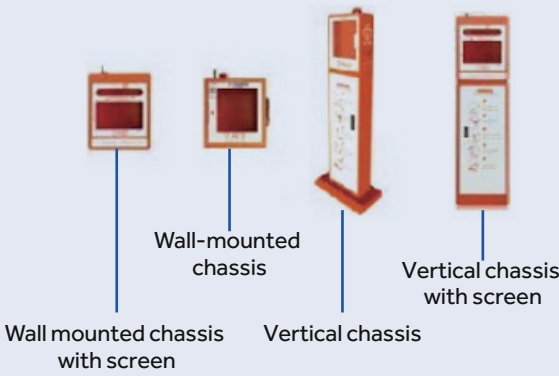
- AED ecological Intelligent management platform
- Integrated AED public layout
- Connected to hospital First Aid system

## Product Accessories

### Standard Accessories



### Optional Accessories



## Specifications

Product Model	AED S1
Defibrillation Technology	Low energy dual-phase exponential truncation defibrillation technology, waveform parameters can be dynamically and automatically compensated according to different patient impedance
Energy Levels	Adults: 150-200J upgrade sequence; Children: 50J; Defibrillation energy can be dynamically adjusted according to impedance
Screen Wide Angle and Brightness Adjustment	The visual Angle of the screen can be 160 degrees, and the operation screen can be clearly seen The device can automatically adjust the screen brightness according to the environment brightness
Volume	The device can automatically adjust the volume according to the ambient noise. The maximum volume ≥ to 80dB
Self-checking Data	The status of device self-test, including periodic self-test, battery insertion self-test, and startup self-test. A maximum of 4000 pieces of self-check data can be stored, and a maximum of 40000 pieces of log data can be stored
Protection Grade	IP55, in line with GB/T1470-2009 requirements
Drop Resistance	Height 1.55m meets the requirements of EN1789
Tolerance Environment (°C)	-20 -50
Recording Function	It can save 80 minutes of on-site rescue recording data

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Novel Coronavirus Neutralizing Antibodies Tests Units

This kit is used for in-vitro semi-quantitative determination of novel coronavirus neutralizing antibodies (Abbreviated as Neutralizing Ab or NAb) in human fingertip blood.



Social Benifits



Simple Operation

No professional training is required, only 15 minutes for testing time



High Sensitivity and Accuracy

The sensitivity was 98.25% and the specificity was 98.60%.



Intuitive Test Results

Result is achieved by comparing with the colorimetric card or negative test card.



Individual Package

All ingredients are individually packaged and disposable to avoid cross-infection.



Painless Blood Needle

High sharpness and accuracy, thus reducing pain.



Medical Grade Material

Environmently friendly material.

Specifications

Model	Use	Storage (°C)	Certification	Net Weight	Size (mm)
NAT-19	Do not re-use	Stored at 4-30	CE BfArM	96g	125*80*70

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VaccineTransport Coolers

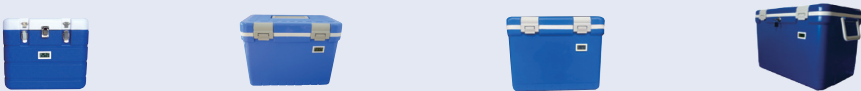
The vaccine transport cooler is superior and efficient, having dual capabilities for cold storage and temperature preservation, which is environmentally friendly and energy saving. The performance of the cooler and holdover time of temperature preservation is influenced by the temperature of the stored items.



Product Advantage

- Both inside and outside of the boxes are made of PP (high strength plastic) material, non-toxic and harmless, safe for direct food contact.
- The wall of the box is filled with fluorine-free polyurethane foam insulation material without adding any chemical material, environment-friendly and odor-free.
- The body of the unit is designed with handles on both sides to facilitate manual handling & is manufactured with anti-ultraviolet materials.
- Equipped with professional sealing ring design, with good heat insulation and refrigeration effect.

Specifications



Model	QBLL0606	QBLL0812	QBLL0820	QBLL0830
Volume (L)	6	12	20	30
Exterior Dimension (mm)	330*240*275	420*245*300	440*262*308	580*310*360
Interior Dimension (mm)	238*143*195	335*170*240	375*215*250	475*245*295
Net Weight (Kg)	1.8	2.4	3.5	4.5
Material	PP	PP	PP	PP
Cold Source Configuration	6 pieces QB004 ice boxes	6 pieces QB004 ice boxes	10 pieces QB004 ice boxes	6 pieces QB010 ice boxes

\*Haier Biomedical reserves the right to change products and specifications without prior notice.

Product Information

Medical waste is a subset of wastes generated at health care facilities, such as hospitals, physicians' offices, dental practices, blood banks, and veterinary hospitals/clinics, as well as medical research facilities and laboratories. Generally, medical waste is healthcare waste that that may be contaminated by blood, body fluids or other potentially infectious materials and is often referred to as regulated medical waste.

It is mainly divided into five categories:

- Infectious waste: medical waste with the risk of infection;
- Pathological waste: discarded human tissue generated during surgery as an example;
- Hazardous waste: such as medical needles, scalpels, glass test tubes;
- Pharmaceutical waste: such as expired, obsolete, deteriorated or contaminated waste drugs;
- Chemical waste: including discarded chemical reagents, chemical disinfectants, mercury sphygmomanometers, mercury thermometers.



Currently, there are four common medical waste treatment technologies:



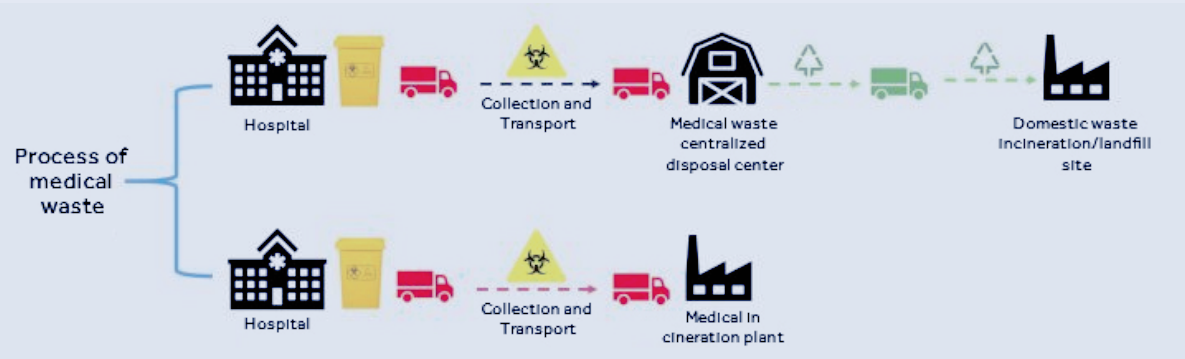
	Advantage	Shortcoming
High Temperature Incineration	With a long history and a wide range of applications, large number of treatment and stable operation	Serious secondary pollution, especially dioxin pollution problem can not be resolved
Steam Sterilization	Superior disinfection effect, low residue risk	The processing process will produce toxic waste gas and waste liquid
Chemical Disinfection	Simple and convenient operation, rapid disinfection, low operating cost	It is more suitable for dry treatment and needs to be used together with crushing processing
Microwave Sterilization	Wide spectrum of disinfection bacteria, high sterilization efficiency, reducing energy consumption without dioxin pollution, easy operation and maintenance, low operating cost	-



Medical Waste Incinerator

Scope of Application

Incinerator is a kind of environmental protection equipment incinerating the waste gas, waste liquid, solid waste object fuel, medical waste, household waste, animal carcasses to achieve quantitative reduction, at the same time to achieve the use of part of the heat energy of the incineration medium of a product.



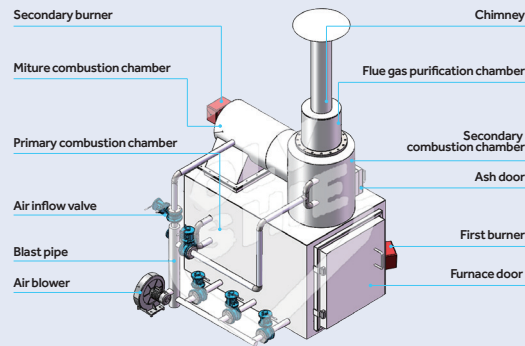
Product Advantages

- 3T+E**

Adopts the patented technology of high-temperature pyrolysis and gasification in accordance with the design principle of 3T+E, and the whole system operates under negative pressure
- Suitable for all kinds of medical wastes, such as syringes, needles, gloves, braces, gauze, blood vessels, organs and other infectious wastes
- The emissions of gas and ash below the international emission standards
- Fully enclosed operation to avoid secondary pollution
- Small volume, space saving
- Easy to operate, energy saving, low cost

Components

Key Parts of Our Incinerator	
<b>Primary Chamber</b>	Chamber designed for maximum air flow and circulation, resulting in increased pyrolysis efficiency and reduced overall burn time
<b>Secondary Chamber/Mixture Combustion Chamber</b>	Retains and re-burns the exhaust gases for minimum of 2 seconds at 850°C to meet EU guidelines
<b>Blast Pipe and Air Inflow Valve</b>	Reasonable layout of air blast pipes and air inflow valves can precisely control the oxygen supplementation amount and oxygen supplementation position of the incinerator to achieve full combustion of exhaust gas and achieve smokeless and odorless effects
<b>Flue Gas Purification Chamber</b>	The calcium bicarbonate in the flue gas purification chamber is fully neutralized with the acid gas in the exhaust gas to achieve the purpose of purifying the exhaust gas
<b>Career Burner</b>	Career burner is energy-saving, efficient, intelligent, fast in temperature increase, and has good combustion effect, at the same time it can provide a non stop ventilation system



Specifications

Example of a model of 200 kg/h	
Dimension of combustion chamber (m)	1.78*0.88*0.9
Dimension of the incinerator (m)	2.6*2.7*3.38
Refractory temperature (°C)	≤1350
Quantity of combustion chamber	Dual combustion chambers
Loading weight (kg)	6000
Operational temperature (°C)	550-1110
Brand of gas turbine	Riello, Italy
Fuel consumption	5-10kg (Diesel)
Exhaust gas burning time	> 2s
Combustion ratio	200kg/h
Thickness of the metal (mm)	8
Average ash (%)	3%

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## Microwave Incinerator for Medical Waste

### Scope of Application

The medical waste microwave treatment workstation adopts the method of first crushing and then microwave sterilization, to sterilize by microwave from the very beginning and to eliminate the effective transmission of secondary transport of medical waste to ensure the safety of the personnel during the collection and transport.

### Product Advantages



#### Environmentally Friendly

Without waste liquid generated, standard emission of gas, nonradiative, safer to use



#### Diversified Products

Better combined products series, fixed and vehicle-mounted products applicable for more scenarios



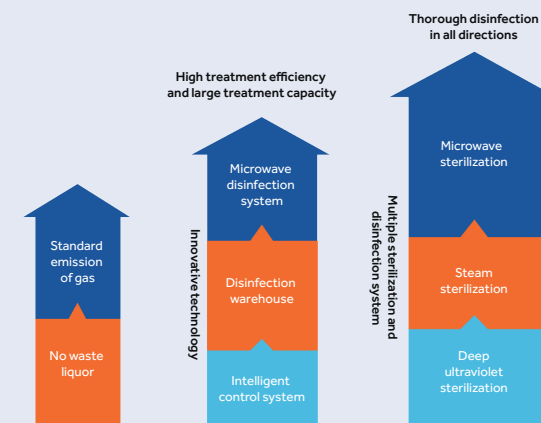
#### Superior Performance

High treatment efficiency and large treatment capacity



#### Innovative Technology

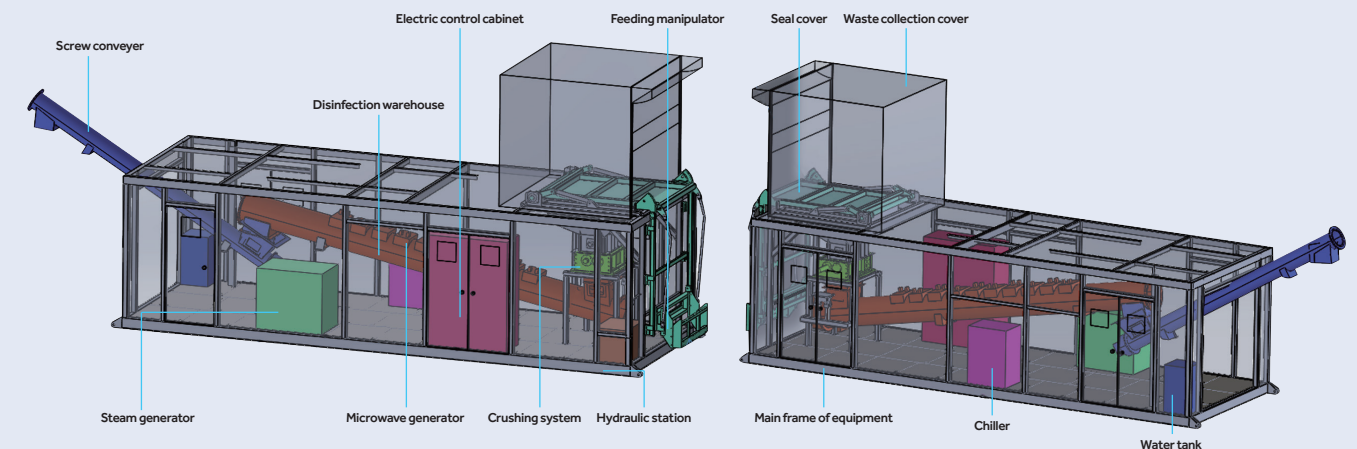
Multiple sterilization technologies (deep ultraviolet sterilization + steam sterilization + microwave sterilization), reaching the international advanced level



### Product Parts

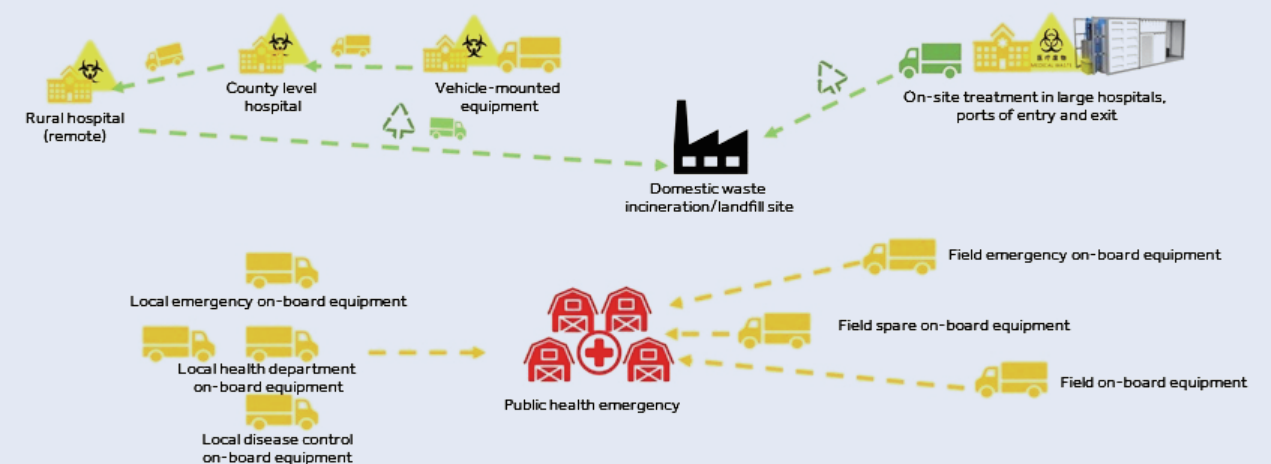
Standard microwave incinerator for medical waste consists of feeding system, crushing system, microwave disinfection system, off-gas treatment system, discharge system, electric control system and other subsystems

- Microwave frequency 2450MHZ, energy saving, uniform heating, slow heat loss
- The medical waste material can pass through the microwave radiation area within only 45 minutes with a higher discharge speed
- Visual and intelligent operation with independent core algorithm
- Highly integrated equipment, space saving, low noise, low energy consumption of equipment, driven by electric power only
- The crushing system uses internationally famous blades, making the equipment more resistant to damage



### Fixed and Vehicle-mounted Types

- Fixed equipment can be installed in large hospitals and other places to avoid secondary pollution in the transport process
- Vehicle-mounted mobile equipment can be used for rapid sterilization and disinfection of medical waste and infectious pollutants in emergent public health events to ensure rapid deployment and nearby treatment



Fixed Microwave Incinerator for Medical Waste



Product Advantages

- Slow thermal loss: on the condition that the same disinfection effect by microwave heating and ordinary heating, the temperature of the waste by microwave is much lower than that of ordinary heating. Waste after microwave disinfection is non-toxic, without residue of light damage
- Main components including the brush blade and the microwave generator of internationally famous brand, the sterilization chamber made of food-grade stainless steel corrosion resistant
- Environmentally friendly: without acid gas, dioxins and other pollutants generated
- Microwaves have a wide range of bacterial species and sterilize all kinds of microorganisms and pathogens
- Suitable for centralized treatment of medical waste disposal center
- On-site treatment in large and medium-sized hospitals
- Standard with IoT remote monitoring function which allows the user to check the temperature of the chamber, the power of microwave generator, disinfection running time, microwave leakage remotely.
- Energy saving: microwave heating is uniform of strong penetrability without energy loss to ensure excellent energy saving effect
- A single unit can meet the daily requirements of processing capacity of 0.15T-10T per day
- Ports, airports, high-speed rail and other specific disposal needs
- High disinfection efficiency and thorough sterilization

Specifications

Model	JRX-0.15T	JRX-0.5T	JRX-1.2T	JRX-3T
Treatment Capacity (kg/h)	15	50	120	300
Total Power (KW)	32	65	86	115
Exterior Dimension (L*W*H)(mm)	1500*700*1200	3500*2500*2750	5800*2650*2350	7300*3050*3250
Exhaust Gas Treatment	UV photo-oxygen + activated carbon adsorption + initial high-efficiency filtration	Wet square cyclone tower, primary and high-efficiency filter box, UV photo-oxygen catalysis	Wet square cyclone tower, primary and high-efficiency filter box, UV photo-oxygen catalysis	Wet square cyclone tower, primary and high-efficiency filter box, UV photo-oxygen catalysis

\* The above is just for reference, Haier Biomedical has multiple products including 0.15T, 0.25T, 0.4T,0.5T,1.2T,1.5T,2.5T,3T,5T, 8T,10T and can manufacturer customized products to suit all users.  
\*Haier Biomedical reserves the right to change products and specifications without prior notice.

Vehicle Mounted Microwave Incinerator for Medical Waste

Product Advantages

- Suitable for the disposal of country level in remote areas
- On-site emergency response to public health emergencies
- On-premise standby equipment in hospitals
- Each unit can meet the requirements of daily processing capacity of 1T-5T

Specifications

Model	JRX-3T	JRX-5T
Treatment Capacity (kg/h)	300	500
Total Power (KW)	115	117
Exterior Dimension (L*W*H)(mm)	6500*2500*2750	8300*2500*2750
Weight (kg)	10500	12500
Exhaust Gas Treatment	Wet square cyclone tower, primary and high-efficiency filter box, UV photo-oxygen catalysis	Wet square cyclone tower, primary, high efficiency filter box, UV photooxygen catalysis

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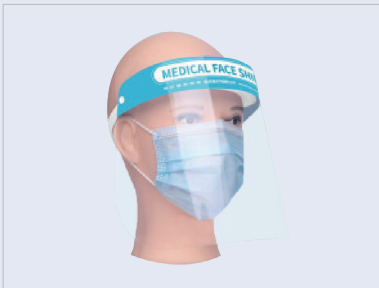


Disposable Medical Protective Coverall



- Separated packaging to provide professional protection.
- Applicable for multiple scenarios.

Medical Isolation Face Shield



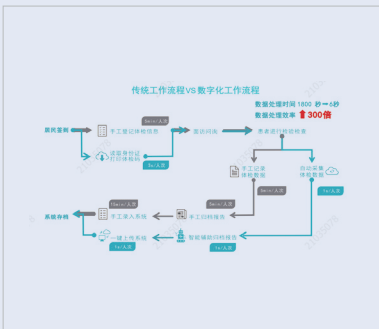
- 180°C angle view & anti-splash.
- Adopt high permeability substrate, double-sided anti-fog.

Medical Goggles



- Full airtight soft glue design, soft and comfortable, close to the face
- Prevent liquid splash
- Anti-fog for both sides, clear vision without distortion.
- The design fits the nose wing to relieve the wearing pressure and give the user the best experience.

Medical Trash Can



- Professional manufacturing
- Durable, anti-corrosion, stable quality

Disposable Medical Waste Packaging Bags



- Adopts polyethylene material, not easy to damage
- Good sealing effect, high toughness, non-toxic and odor free
- Clean, safe and environmental protection.
- High transparency, high temperature resistance and anti-curl.

Medical Tool Box



Made of hard plastic, puncture resistance, no leakage, not easy to break, good sealing, no secondary pollution, strong toughness and strong durability.

Medical Treatment Disc



304 stainless steel material, can be placed iodine volt. The corners are smooth and not rowed. Adopt clamshell design, easy to pick up and place items. The bracket is removable for easy cleaning. The bottom is non-slip, solid and durable.

### Forceps



Made of high quality stainless steel, fine grinding, tight forceps bite, the inside adopts non-slip design, which can effectively prevent items from falling. The overall the unit adopts ergonomic design which makes the user easy to pick up items.

### Disposable Sterilized Syringe



- Separated packaging, hygienic and convenient.
- The tube wall has clear scale and easy to read.
- The rubber piston provides good air tightness with no waste.
- The needle tip is smooth and sharp with no block and easy to puncture.
- The syringe is made of PVC material, which is strong and durable.

### Cryogenic Gloves

- HYDST-26
- HYDST-30
- HYDST-35
- HYDST-40
- HYDST-45
- HYDST-60
- HYDST-72



- The product is made of high quality buffalo skin with imported sponge interlayer and nylon Canberra lining with superior cold resistance.
- The product can be used for handling work related to liquid nitrogen, and can protect from small amounts of liquid Nitrogen splashing
- Instantly withstand temperatures ranging from -160 degrees Celsius to -250 degrees Celsius
- Antistatic index 108-109
- Optional 35/40/45/60/72 centimeters

### Disposable Nitrile Exam Gloves



### Features

- No latex protein to cause allergy
- Excellent softness and wearing fitness.
- Undifferentiated shelf life as normal gloves
- Well suitable for high cleanliness industry like electronic,food service, etc

### Quality Standards

- Complies with EN 455 and EN 374
- Complies with ASTM D6319(USA Related Product)
- Complies with ASTM F1671
- FDA 510(K) available
- Approved to use with Chemotherapy Drugs

### Product Advantages

Medical purpose / Examination

Industrial purpose /PPE

Laboratory

Healthcare and nursing

General housekeeping

IT Industry

### Specifications

SKU	Size	Color	Package	Box Size	Grain Diameter
NGBEM1001*	XS-XL	Blue	100pcs/box,10boxes/ctn	230*125*60mm	315*258*245mm
NGBEM1002*	XS-XL	White	100pcs/box,10boxes/ctn	230*125*60mm	315*258*245mm
NGBEM1003*	XS-XL	Violet	100pcs/box,10boxes/ctn	230*125*60mm	315*258*245mm

\*The last "\*" means Size:3-XS 4-S 5-M 6-L7-XL.  
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