



# Products Catalogue

**Hospital Care Overall Solution**



## **Foshan ISA Logistic Co.,ltd**

Address:ROOM 1501,BUILDING 1,JINSELINGYU SQUARE,NO.1 FOPING 3RD ROAD,  
GUICHENG STREET,NANHAI DISTRICT,FOSHAN,GUANGDONG CHINA

Tel: +86 18818730044

Web:<http://www.isalogistic.com>

E-mail:[osama@isalogistic.com](mailto:osama@isalogistic.com)

**Foshan ISA Logistic CO.,Ltd**

## Company Profile

Shenzhen Hwatime Biological Medical Electronics Co.,Ltd. is a high-tech enterprise integrated with vital signs monitor's R&D, production, sales and after-sales service, which is invested and controlled by Hong Kong Hwatime Group Co.,Ltd. The headquarter is located in Shenzhen, China where the Silicon Valley of medical instruments is. We have cooperation with nearly more than 50 countries around the world, which build a solid foundation for Hwatime market development and the after-sale service.

Hwatime Medical has a young R&D team with creativity. Along with self-developed core technology, it will introduce international advanced technology and supply better performance, higher stability and more sustainable durability products to customers. Recently, HWATIME will promote more advanced products to the world to make a contribution for human health careers.

Make products by heart, well service by heart are the mission of Hwatime. Hwatime Medical will act as a popularizer and a market promoter for global brand of medical monitors. With favorable price and excellent quality service, we are willing to cooperate with all medical units and all agents to attain mutual development and shared achievements.

Hwatime Medical makes your life better!

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## Products Catalogue

### iHT Series Modular Monitor

- iHT6 Modular Monitor
- iHT8 Modular Monitor
- iHT9 Modular Monitor

### HT Series Modular Monitor

- HT6 Modular Monitor
- HT8 Modular Monitor
- HT9 Modular Monitor

### H Series Monitor

- H5 Vital Signs Monitor
- H6 Multi Parameter Monitor
- H8 Multi Parameter Monitor
- H9 Multi Parameter Monitor
- H100 Handheld Patient Monitor

### T Series Maternal and Fetal Monitor

- T10 Fetal Monitor
- T12 Fetal Monitor

### Central Monitoring System

### Accessories

### Medical Engineering – The Overall Solution

### Circulation Oxygen Generator – The Overall Solution

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## iHT6 Modular Monitor



### Forward-looking and Innovative Technology

- Blood oxygen technology, anti-low perfusion, anti-shake
- Ambulatory blood pressure technology, anti-movement
- Independent research and development of the latest main board application, more superior and efficient
- Imported high-quality chip, quality and overall performance is guaranteed
- HD 12.1 inch TFT display with 800\*600 resolution, more exquisite display and larger screen
- Supporting touch screen configuration, accessing directly to various parameter settings
- Imported high-quality ABS shell material, easy cleaning, anti-abrasion
- High-capacity 2600mAh rechargeable Lithium battery
- Optional wired or wireless central monitoring system
- Mini host- transport patient monitor

**Intelligence,  
Capability and Integrity**



## iHT8 Modular Monitor



### Human Friendly, Convenience and Flawless Texture

- HD 15 inch TFT display with 1024\*768 resolution
- Ventilation holes are designed behind the handle for heat dissipation according to Gas Flowing Study
- Oversized fence type ventilation holes on the back panel, preventing both hot air from gathering inside the monitor and dust outside
- Supporting Nurse Calling System, input and output of USB device data
- Supporting coaxial cable data output
- Supporting HD digital display image device output
- Supporting the input and output of SD card storage device data
- Supporting real-time printing, waveform freeze printing and data printing

### HT10

- 5 inch touch screen
- Standard 6 parameters + pacing module



### HT2

- 4.3 inch touch screen
- Standard 6 parameter + Dual IBP module



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## iHT9 Modular Monitor



### Features

- HD 17 inch TFT display with 1280\*1024 resolution

### Intelligence, Capability And Integrity

- Blood oxygen technology, anti-low perfusion, anti-shake
- Ambulatory blood pressure technology, anti-movement
- Independent research and development of the latest main board application, more outstanding performance and stable operation system
- Strong capability of anti-movement artifacts, ensuring accurate measurement for neonates, pediatrics and patients suffering from finger (toe) end shivering
- Strong capability of detecting weak perfusion, ensuring accurate measurement for patients with weak pulse, low body temperature, and poor perfusion
- Quick response, high accuracy and safety alarm technology
- Applicable to NICU/PICU/OR and other important clinical application
- Imported high-quality chips, superior performance
- Lower energy consumption with Samsung chips, extending standby time
- Optional wire and wireless CMS connection

### "Detachable" Transport Patient Monitor

- Small and compact transport patient monitor-Mini Host



## Integrated With Comprehensive Ideas

### Oversized Anti-skid Handle

Adopting double material, comfortable grip. Preventing slipping in the process of moving

### Convex Double Color Warning Light

Checking alarming condition from 360° at alarming time. High brightness display ensures patients' safety

### Modular Design

Adopting 3+1 pattern to satisfy clinical requirements. Choosing modular according to clinic, satisfying detecting requirements of different parameters

### High-strength ABS Shell

Anti scratch, anti abrasion. Easy cleaning and not stain easily

### Night Monitoring Mode

Laser buttons are made of imported silica gel, more comfortable and more easy-operating at night

### One Button Shuttle Operation

Realizing one button operating setting

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## HT6 Modular Monitor



### Clinical Application

Hwatime HT-Series Plug-in Monitor has been designed to provide a completed solution for ICU, CCU, OR, etc.

#### Standard Parameter:

ECG, NIBP, SpO<sub>2</sub>, TEMP, RESP

#### Optional :

ETCO<sub>2</sub>, DUAL IBP, 12 leads ECG, Anesthetic Gas, Viewbed, Recorder, Touch Screen

### Features

- 12.1" color display with 800\*600 resolution.
- Support touch screen, in combination with knob key for easy operation .
- The host can identify plug-in modules automatically; modules can transport from one monitor to another freely.
- Multi display including:  
*Standard Interface, Large Font, ECG Standard Full Display, OXY, Trend Table, BP Trend.*
- Customized Display:  
User can remove the parameter that would not be used from the screen.
- Special design against high frequency surgical unit ,and defibrillation protection.
- High-capacity 2600 mAh rechargeable Lithium battery for over 2 Hours working time.

### Data & Storage

- 200 hours trend storage, optional thermal printer can output real time appointed ECG and SpO<sub>2</sub> waveform.
- ST analysis, 13 kinds of arrhythmia analysis, and 15 kinds of drug dose calculation.
- Support VGA output, USB, SD Card.
- Easy connection with wired / wireless central monitoring system.



Bigfont interface



Standard interface



OxyCRG interface

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## HT8 Modular Monitor



### Clinical Application

#### Standard Parameters:

ECG, NIBP, SpO<sub>2</sub>, TEMP and RESP

#### Optional:

ETCO<sub>2</sub>, DUAL IBP, 12 leads ECG, Anesthetic Gas, Viewbed, Recorder, Touch Screen

### Features

- 15" color display with 1024\*768 resolution.

### Standard Configuration

- ECG Cable: 1 piece
- TEMP Probe: 1 piece
- NIBP Cuff: 1 piece
- NIBP Extension Tube: 1 piece
- SPO<sub>2</sub> Probe: 1 piece
- Power Cable: 1 piece
- ECG Electrodes



### High Standard, High-quality Battery

Built-in detachable  
rechargeable lithium battery  
Long battery life-2 hours



### Built-in Recorder

Able to print real-time  
waveforms



ECG standard interface



Full 7 lead ECG  
waveform interface  
(Optional)



Trend graphs

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## HT9 Modular Monitor



### Clinical Application

#### Standard Parameters:

ECG, NIBP, SpO<sub>2</sub>, TEMP & RESP

#### Optional :

ETCO<sub>2</sub>, DUAL IBP, 12 leads ECG, Anesthetic Gas, Viewbed, Recorder, Touch Screen

### Features

- 17" color display with 1280\*1024 resolution.

### Beautiful Appearance, Advanced Technology

- Plug-in modular design, various optional parameters, direct display, easy to operate
- 17" colorful and clear TFT display, touch screen optional
- Able to operate by keyboard or optional mouse. Supporting HD, VGA output
- Any integration for single parameter module or multi-parameter module
- 1 single modular slot and 1 double modular slot, Simultaneous display of at least 10 parameters
- 13 kinds of arrhythmia analysis
- 15 kinds of drug dose calculation

### Pacemaker(Optional)

General Monitor has been used for diagnosis. Now as Pacemaker appears, the monitor can act as a therapy equipment.

Hwtime is mainly using temporary cardiac pacing for arrhythmia patients.

Usually, temporary cardiac pacing is divided into two types:

#### 1. Through esophagus pacing (TEP)

Non-invasive clinical electrophysiology diagnostic and therapeutic techniques.

The electrode catheter is placed in the esophagus (back side of heart), and indirectly stimulate the atrium, which may terminate certain types of tachyarrhythmia.

The pacing module should be used together with Hwtime Plug-in Monitor.

#### 2. Through intravenous intracardiac pacing

*\* It is an independent device.*

The intravenous intracardiac pacing method should be used ASAP if longer time pacing is required

Usually it is through placing temporary pacing electrodes by puncturing the jugular, subclavian or femoral vein, and also connecting temporary pacemaker with appropriate pacing and stimulation intensity selected.



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## H5 Vital Signs Monitor



### Introduction

H5 has been designed to meet various requirement of clinical application. Free combination of any customized parameter can be satisfied.

Its smaller size makes it best choice for ambulance.

### Features

- 7" color LCD display.
- Rechargeable high energy built-in Li battery, continuously working for over 4 hours
- Easy to learn and use, simplified menus and dedicated functions keys.
- Free combination of any customized parameter.
- 96 hours' data storage.
- Suitable for adults, pediatrics and neonates.
- Easy connection with central monitoring system.
- Optional veterinary

### H5 Model List

Model	Parameter
H5	ECG, SpO <sub>2</sub> , NIBP, TEMP, RESP
H5A	SpO <sub>2</sub>
H5B	SpO <sub>2</sub> , ETCO <sub>2</sub>
H5C	SpO <sub>2</sub> , NIBP
H5D	ECG, TEMP
H5E	NIBP, SpO <sub>2</sub> , TEMP
H5F	ETCO <sub>2</sub>
H5G	NIBP, SpO <sub>2</sub> , ETCO <sub>2</sub>
H5H	ECG, NIBP, SpO <sub>2</sub>



H5A



H5C



H5H

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## H6 Multi Parameter Monitor



### Introduction

Hwattime H- Series Patient Monitors has been designed to meet everyday clinical requirements.

**Standard Parameters:** ECG, SpO<sub>2</sub>, NIBP, RESP, TEMP

**Optional:** ETCO<sub>2</sub>, Dual IBP, Recorder, Touch Screen, Veterinary

### Main Features

- 8.4" color LCD display with 800\*600 resolution.
- Suitable for adults, pediatrics and neonates.
- Three Working Modes: *Monitoring, Surgery and Diagnosis.*
- Multiple display modes optional: *Big font, ECG full lead display, OXY, Trend Table.*
- Colors of waveform and data can be set as customized.
- Anti-high frequency surgical unit, defibrillation protection.
- Advanced SpO<sub>2</sub> technology, high measurement in low perfusion.
- Built-in thermal printer, with output of real-time appointed ECG and SpO<sub>2</sub> waveform.
- High capacity built-in rechargeable lithium battery.
- To connect central monitoring station, other bed observation and software updating with wireless and wired mode.
- ISO 13485 & CE0123 certification in Europe.

### Data & Storage

- 3/5 Lead ECG Display, 6 ECG waveforms can be displayed in a screen.
- 13 kinds of arrhythmia analysis.
- Calculation function for drug dose and titration table..
- Function of NIBP review, storage for up to 400 groups of NIBP data.
- Dual channel temperature monitoring.

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## H8 Multi Parameter Monitor

### Introduction

**Standard Parameters:** ECG, SpO<sub>2</sub>, NIBP, RESP, TEMP

**Optional:** ETCO<sub>2</sub>, Dual IBP, Recorder, Touch Screen, 12-lead ECG, Veterinary

### Main Features

- 12.1" Color LCD Display with 800\*600 resolution.
- Suitable for adults, pediatrics and neonates.
- Three Working Modes: *Monitoring, Surgery and Diagnosis.*
- Multiple display modes optional: *Big font, ECG full lead display, OXY, Trend Table.*
- Built-in thermal printer: Output of real-time appointed ECG and SpO<sub>2</sub> waveform.



**Double channel IBP**  
Achieving real-time blood pressure monitoring of patient



**Built-in double channel thermal printer**



**3 levels of audible, visual and audio alarm**

### CO<sub>2</sub> Sensor

Hwattime CO<sub>2</sub> Sensor has been designed to monitor patients' respiration. It is reflected by three parts: End-tidal ETCO<sub>2</sub>, InCO<sub>2</sub> and Air-way Respiration Rate. There are two types of sensor to meet the requirement.

#### Sidestream CO<sub>2</sub>

To connect patient directly through sample line & nasal line.

#### Mainstream CO<sub>2</sub>

Mainstream CO<sub>2</sub> Sensor is used for intubation patients (Anesthesia Machine & Ventilator). The gas is collected indirectly.



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## H9 Multi Parameter Monitor

### Introduction

**Standard Parameters:** ECG, SpO<sub>2</sub>, NIBP, RESP, TEMP  
**Optional:** ETCO<sub>2</sub>, DUAL IBP, Recorder, Touch screen, Anesthesia Gas, Viewbed, Veterinary

### Features

- 15" color LCD display with 1024\*768 resolution.
- Suitable for adults, pediatrics and neonates.
- Three Working Modes: *Monitoring, Surgery and Diagnosis.*
- Multiple display modes optional: *Big font, ECG full lead display, OXY, Trend Table.*
- Built-in thermal printer. Output real-time appointed ECG and SpO<sub>2</sub> waveform.



Standard interface



Max 8 waveform display simultaneously  
max 6 leads ECG waveforms display



OxyCRG interface



Big font interface

## H100 Handheld

### Features

- 2.8" color LCD display.
- Suitable for adults, pediatrics, and neonates.
- To measure SpO<sub>2</sub>, PR, ETCO<sub>2</sub>, RESP.
- Easy operation menu.
- Variable screen brightness allows you to alter LCD intensity and conserve battery power.
- Adjustable visual and audible alarms: you can choose whether to show SpO<sub>2</sub> and pulse rate alarm limits.
- To be used as an independent CO<sub>2</sub> Monitor with Sidestream / Mainstream CO<sub>2</sub> Module.
- Best choice for longer time monitoring of SpO<sub>2</sub> & ETCO<sub>2</sub>.
- Optional veterinary



H100C



H100S



H100SC



Nasal Sample Line



SpO<sub>2</sub> Probe



## T10 Fetal Monitor



### Product Feature

- Flexible, light design, easy operation
- Colorful and clear 10.2" LED display
- Flip-screen, multi angle observation , backlight buttons available
- Simultaneously maternal and fetal parameters display
- Monitoring single fetus and twins (optional)
- Fetal acoustic stimulator (optional)
- High quality LEMO connector
- Built-in detachable rechargeable lithium battery, 3.5 hours battery life
- Supporting for wireless or wired networking

### Probe

- Wide-beam, multi-crystal waterproof FHR probe, high sensitivity, stable signal detection.
- Flat surface waterproof TOCO probe

### Alarm & Data Storage

- Audible and visual alarm, 50 groups alarm events reviewing
- 60 hours' CTG storage and replay, power off data storage
- Automatically fischer analysis results

### Built-in Thermal Printer

- 150/152mm wide paper
- 25mm/s highspeed playback and printing function, can display and print the active diagram of fetal waveform.

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## T12 Fetal Monitor



Monitoring Twins Optional



Supporting for Wireless or  
Wired networking



Durable button, backlight available



Wide paper built-in thermal printer



Standard Interface for  
three parameters:  
FHR, TOCO, FM



Standard Interface for  
nine parameters:  
FHR, TOCO, FM, PR, SPO2,  
NIBP, ECG, RESP, TEMP



Big Font Interface



### Product Feature

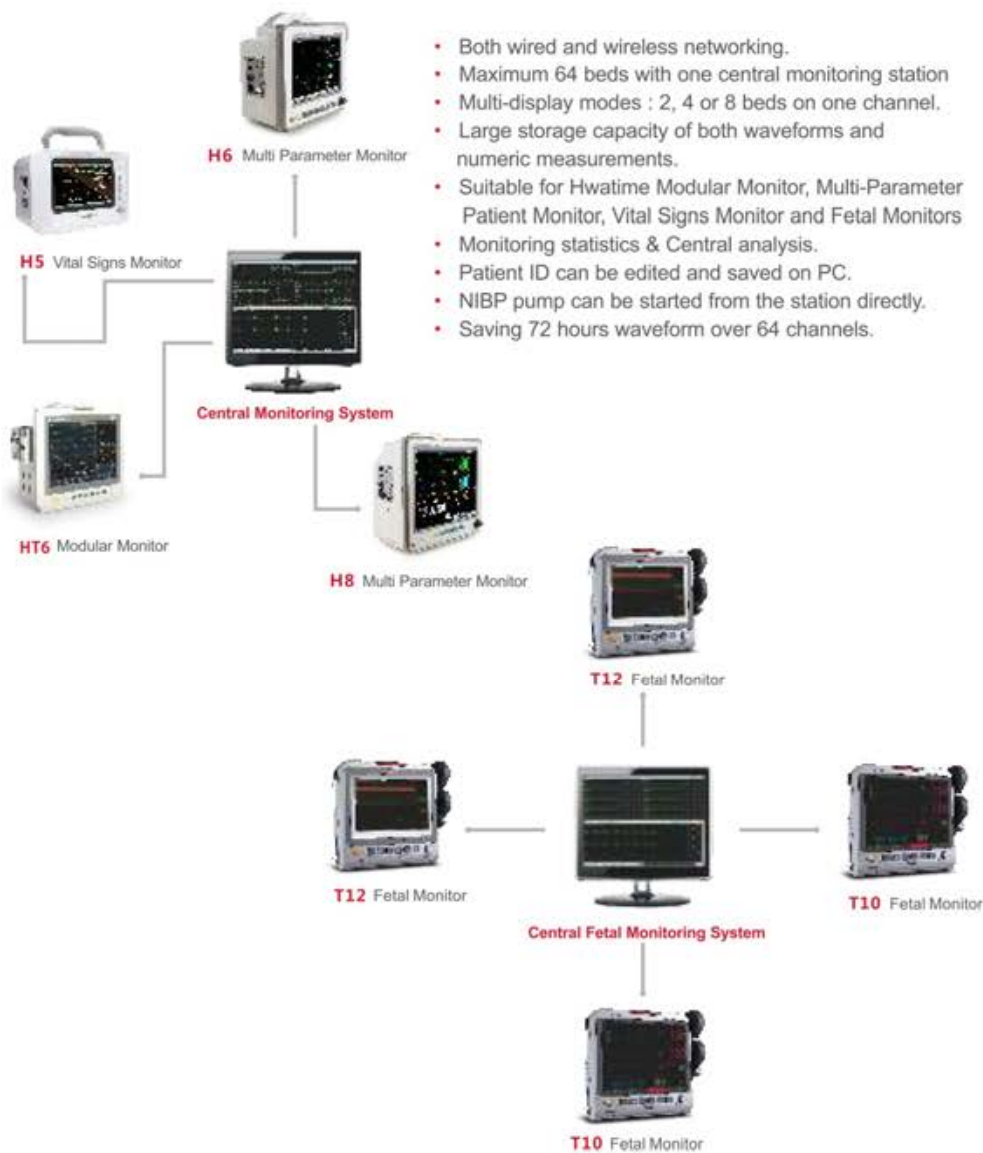
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- Simultaneously maternal and fetal parameters display
- Fetal acoustic stimulator (optional)
- High quality LEMO connector
- Built-in detachable rechargeable lithium battery, 3.5 hours battery life
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## Central Monitoring System



## Accessories



Adult blood pressure cuff



Pediatric blood pressure cuff



Neonate blood pressure cuff



Adult SpO2 probe



Pediatric SpO2 probe



Neonate SpO2 probe



5-lead ECG cable



3-lead ECG cable



Body surface temperature probe



IBP cable



IBP transducer



Lithium battery





## Clean Operation Room

It uses an air conditioning system that controls the density of suspended dust and microorganism in the controlled area to the required level mainly through filtration and sterilization. Such dust and microorganism is then transmitted to the operation room through non-induced air-feeding device (commonly known as air delivery ceiling), so as to improve the medical environment of the operation room in the hospital. Number and grade of clean opera



## China's largest medical engineering The overall solution supplier

- ① Overall Solution for Clean Operation Room
- ② ICU Purification Engineering Solution
- ③ Central Gas Supply Overall Solution
- ④ Overall Solution of Central Sterile Supply Department
- ⑤ Automatic Pharmacy Overall Solution
- ⑥ Automatic Pneumatic Tube Transportation System Overall Solution

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## ICU Construction Standard



ICU overall layout shall offer relative independence for medical area (Hospital beds), medical auxiliary rooms, sewerage disposable area and life auxiliary area for medical workers, with fewer mutual interference to better control infection sources.

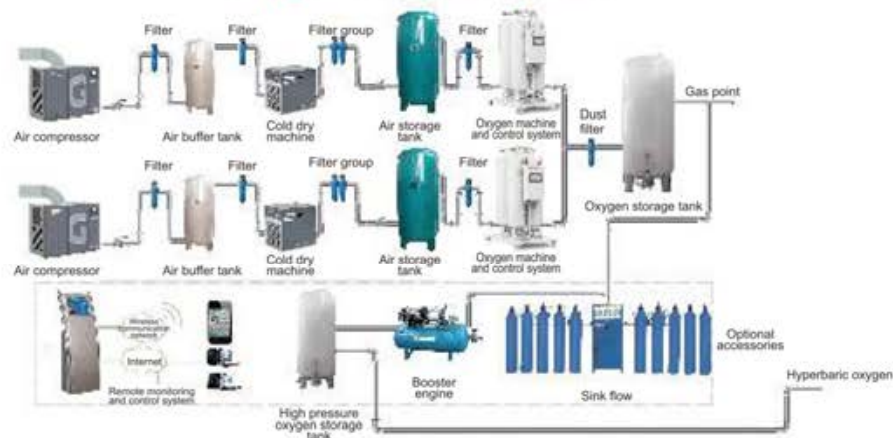
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### Four-tower Intelligent Circulation Oxygen Generator System



Double oxygen system, one main unit with one standby unit  
Meet the peak of using of oxygen in hospital, considering long-term development of hospital

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### Compare with traditional oxygen source

Oxygen Source	Cylinder Oxygen	Liquid Oxygen	Molecular Sieve
Safety	Highest pressure 150kg/cm <sup>2</sup>	Lowest temperature -183°C	Normal temperature, low pressure 4-6kg/cm <sup>2</sup>
Convenience	Difficult cleaning, easy pollution, need to be transported by special car everyday	Need purchasing often, need to be transported by special car, complex operation	Air is raw material, convenient operation
Intelligence	None	None	Remote monitoring, can send information to mobile phone, can reduce labor cost

### Compare with other manufacturer

Comparison	Four tower circulation oxygen generator system	Others
Main Parts	Atlas Copco GA Advanced series	Various brands
Lifetime	At least 10 years	3-8 years, some needs to change molecular sieve after 1-2 years
Oxygen Purity	Keeping more than 90%	In the first 1-2 years, it is keeping more than 90%, after a few years, it becomes unstable
Energy Consumption	20% lower than the similar products	Be the same or more than standard
Intelligent Safety	If there is no more than three towers breakdown, it can work continuously, guarantee hospital oxygen demand perfectly	Machine will stop while breakdown. Can't guarantee hospital oxygen demand in the busy time
Intelligent Economy	One machine group can be regarded as double machine group, lower client cost and reduce space, the developed space will be larger	Following country standard, setting double machine group necessarily, one work, one auxiliary, one backup. Floor space is large, also the cost is high, continuous development is small as well.

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