

## Infant Incubator HB001



1. The world trend of double inclined plane organic glass  
Many countries adopt double inclined plane organic glass, which gives a visual sense of relaxed ease, a full range of observed objects without deformation and reflection, conveniently for medical staff monitor care.
2. Full open front door  
Large front door, all the flip open, easy to operate for medical staff and easy to get in and out for infant.
3. Suitable temperature for infant  
Temperature system adopts microcomputer control, high precise, small temperature fluctuation



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4. Inclination of large bassinet is adjusted steplessly.  
infant bassinet tilt baby bed can be used for about 8 degrees of tilt, bed area is 10% larger than the average incubator.
5. Two-way pulling out of the bassinet  
bassinet can be pulled out smoothly from the front door or right side door, to facilitate neonatal medical care.
6. X-ray cassette under the bassinet  
China's first infant incubator with X-ray radiography, radiography cassette underneath beds, non-metal transparent window allow X-ray pass, no leaving the infant incubator for X-ray photograph.
7. Large display window for multi-parameters  
Setting value and real value display at the same time, medical staff can know the infant incubator operations from long distance by large LED digital tube.
8. Concealed humidification devices  
Incubator is installed the spray humidifier which is a national initiative, the humidity can be set freely, and controlled by microcomputer, humidity in the baby's hood can be accurately maintained at the set value within  $\pm 5\%$ .
9. High-quality air filter net  
Superior performance of the filter adsorption can make air into the incubator more clean, and easy to clean replacement.
10. Excellent performance cleaning and disinfection  
Whole up-body overturned function make the medical staff easy to clean and sterilize.
11. Failure alarm indication  
Incubator security be guaranteed fully, the battery voltage alarm and water alarm is a national initiative.
12. RS480 Computer interface  
Communication interface far distance control available.

## Optional:

1. oxygen concentration analyzer  
Hypoxic, or oxygen excess are detrimental to infant training and development, the oxygen concentration analyzer can detect the baby cabin oxygen concentration
2. Up blue-light box  
can be cured in blue-light
3. Down blue-light box  
can be cured in blue-light



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## Technical Specifications:

| Item  | specifications  |
|---|---|
| heating voltage                                 | $\leq 300W \pm 10\%$  |
| Incubator temperature control range             | 25-37°C   |
| Skin temperature control range                  | 34-37.5°C   |
| Skin temperature sensor accuracy                | $\leq 0.3^\circ\text{C}$  |
| Bed surface temperature average                 | $\leq 1.5^\circ\text{C}$  |
| Humidity accuracy                               | $\leq 10\%$   |
| Humidity display range                          | 30-99%  |
| Temperature fluctuation                         | $\leq 0.5^\circ\text{C}$  |
| Temperature rise time                           | <40min  |
| Temperature deviation alarm range               | For incubator: $\pm 3^\circ\text{C}$                                  |
|   | For skin: $\pm 1^\circ\text{C}$                                       |
| indoor noise of incubator                       | $\leq 45\text{dB}$  |
| Alarm noise                                     | Indoor: $\leq 70\text{dB}$  |
|   | Outdoor: $\geq 60\text{dB}$   |
| overtemperature alarm                           | $\leq 38^\circ\text{C}$   |
| Second overtemperature alarm                    | $\leq 40^\circ\text{C}$   |
| Alarm of sensor fault                           | response time <4s, Continuous alarm                                   |
| Power failure alarm                             | response time <5s, Continuous alarm                                   |
| Air blower stopping alarm, air-duct block alarm | response time <30s, Continuous alarm                                  |
| Lack water alarm                                | Inlet tube water level is under the sign of "MIN"                     |
| Upper-body overturn angle                       | 30°C  |
| Inclination of large bassinet                   | 0-8°stepless  |
| Temperature display mode                        | LED digital display   |
| Infant incubator body material                  | Organic glass, double walls hood, cabinet case                        |
| Oxygen concentration measurement(optional)      | 0~100%  |
| Panel automatically locked                      | yes   |
| Operation window                                | No less than 5 pcs, with auxiliary air sensor                         |
| Panel feature                                   | Touch panel, water-proof, sensitivity and reliability                 |
| Low battery alarm                               | <4.5V   |
| Safety performance                              | According with class I, IEC601-1, 1998.GB9706.1-1995 and GB11243-2000 |

**Infant Incubator HB002**

1. The world trend of double inclined plane organic glass  
Many countries adopt double inclined plane organic glass, which gives a visual sense of relaxed ease, a full range of observed objects without deformation and reflection, conveniently for medical staff monitor care.
2. Full open front door  
Large front door, all the flip open, easy to operate for medical staff and easy to get in and out for infant.
3. Suitable temperature for infant  
Temperature system adopts microcomputer control, high precise, small temperature fluctuation
4. Inclination of large bassinet is adjusted steplessly.  
infant bassinet tilt baby bed can be used for about 8 degrees of tilt, bed area is 10% larger than the average incubator.



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China's first infant incubator with X-ray radiography, radiography cassette underneath beds, non-metal transparent window allow X-ray pass, no leaving the infant incubator for X-ray photograph.
7. Large display window for multi-parameters  
Setting value and real value display at the same time, medical staff can know the infant incubator operations from long distance by large LED digital tube.
8. Concealed humidification devices  
Incubator is installed the spray humidifier which is a national initiative, the humidity can be set freely, and controlled by microcomputer, humidity in the baby's hood can be accurately maintained at the set value within  $\pm 5\%$ .
9. High-quality air filter net  
Superior performance of the filter adsorption can make air into the incubator more clean, and easy to clean replacement.
10. Excellent performance cleaning and disinfection  
Whole up-body overturned function make the medical staff easy to clean and sterilize.
11. Failure alarm indication  
Incubator security be guaranteed fully, the battery voltage alarm and water alarm is a national initiative.
12. Computer interface  
Communication interface far distance control available.
13. height adjustment function  
electric lifting structure for 150mm height adjustable range, to suit different medical staff operations.

### Optional:

1. oxygen concentration analyzer  
Hypoxic, or oxygen excess are detrimental to infant training and development, the oxygen concentration analyzer can detect the baby cabin oxygen concentration
2. Up blue-light box  
can be cured in blue-light
3. Down blue-light box  
can be cured in blue-light



# WANROOEMED

## Technical Specifications:

| Item  | specifications  |
|---|---|
| heating voltage                                 | $\leq 300W \pm 10\%$  |
| Incubator temperature control range             | 25-37°C   |
| Skin temperature control range                  | 34-37.5°C   |
| Skin temperature sensor accuracy                | $\leq 0.3^\circ\text{C}$  |
| Bed surface temperature average                 | $\leq 1.5^\circ\text{C}$  |
| Humidity accuracy                               | $\leq 10\%$   |
| Humidity display range                          | 30-99%  |
| Temperature fluctuation                         | $\leq 0.5^\circ\text{C}$  |
| Temperature rise time                           | <40min  |
| Temperature deviation alarm range               | For incubator: $\pm 3^\circ\text{C}$                                  |
|   | For skin: $\pm 1^\circ\text{C}$                                       |
| indoor noise of incubator                       | $\leq 45\text{dB}$  |
| Alarm noise                                     | Indoor: $\leq 70\text{dB}$  |
|   | Outdoor: $\geq 60\text{dB}$   |
| overtemperature alarm                           | $\leq 38^\circ\text{C}$   |
| Second overtemperature alarm                    | $\leq 40^\circ\text{C}$   |
| Alarm of sensor fault                           | response time <4s, Continuous alarm                                   |
| Power failure alarm                             | response time <5s, Continuous alarm                                   |
| Air blower stopping alarm, air-duct block alarm | response time <30s, Continuous alarm                                  |
| Lack water alarm                                | Inlet tube water level is under the sign of "MIN"                     |
| Upper-body overturn angle                       | 30°C  |
| Electric lifting distance                       | 150mm   |
| Inclination of large bassinet                   | 0-8°stepless  |
| Temperature display mode                        | LED digital display   |
| Infant incubator body material                  | Organic glass, double walls hood, cabinet case                        |
| Oxygen concentration measurement(optional)      | 0~100%  |
| Panel automatically locked                      | yes   |
| Operation window                                | No less than 5 pcs, with auxiliary air sensor                         |
| Panel feature                                   | Touch panel, water-proof, sensitivity and reliability                 |
| Low battery alarm                               | <4.5V   |
| Safety performance                              | According with class I, IEC601-1, 1998.GB9706.1-1995 and GB11243-2000 |



## HB103 Infant Incubator

1. Servo Control Mode: air temperature, skin temperature;
2. Instant Parameter Displaying: set temp, air temp, skin temp, internal humidity, heat power rate
3. Audible & Visual Alarms: power failure, sensor failure, higher & lower temp, air & skin temp override, fan failure, system failure;
4.  $>37^{\circ}\text{C}$  Preset Mode: power failure reset memory, alarm silence, keypad lock, self-test function;
5. Hood with dual slope: 6 hand-ports; left & right cabinets, top-shelf;
6. RS-232 Output Connector (Use for network system ).
7. Export model: install the guardrail instead of top shelf



## HB102 Infant Incubator

1. Servo Control Mode: air temp, skin temp;
2. Instant Parameter Displaying: set temp, air temp, skin temp, heater power rate;
3. Audible & Visual Alarms: power failure, sensor failure, higher & lower temp, air & skin temp override, fan failure, system failure;
4.  $>37^{\circ}\text{C}$  Preset Mode: power failure reset memory, alarm silence, keypad lock, self-test function;
5. Hood with dual slope: 6 hand-ports; left & right cabinets, top-shelf;
6. RS-232 Output Connector (Use for network system).
7. Export model: install the guardrail instead of top shelf





## HB101 Infant Incubator

1. Servo Control Mode: air temp;
2. Instant Parameter Displaying: set temp, air temp and heat power rate;
3. Audible & Visual Alarms: power failure, sensor failure, higher & lower temp, air temp override, fan failure, system failure;
4.  $>37^{\circ}\text{C}$  Preset Mode: power failure reset memory, alarm silence, keypad lock, self-test function;
5. Hood with dual slope: 6 hand-ports; left & right cabinets, top-shelf;
6. RS-232 Output Connector (Use for network system ).
7. Export model: install the guardrail instead of top shelf



## HB100 Infant Incubator

1. Instant Parameter Displaying: set temp, air temp, heat power rate;
2. Audible & Visual Alarms: power failure, sensor failure, higher/lower temp, air temperature override, fan failure;
3. Power failure reset memory and self-test function;
4. Hood with dual slope: 4 hand-ports.



### Optional:

Double wall hood



Blue light Phototherapy Unit with up and below, LED digital timer, display therapy time and total time. Up phototherapy unit used blue tube light source, below phototherapy unit used blue LED light source



weight scale system



step less adjustable infant bed



Top shelf for put other device.



Blue light Phototherapy Unit, LED digital timer, display therapy time and total time.



Side railing for protect the infant incubator





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|   | HB103                         | HB102                         | HB101          | HB100        |
|---|-------------------------------|-------------------------------|----------------|--------------|
| Mattress to Hood                        | 450mm                         | 450mm                         | 450mm          | 410mm        |
| Observation side of hood                | Two incline                   | Two incline                   | Two incline    | Two incline  |
| Operate port                            | 6                             | 6                             | 6              | 4            |
| Front access panel                      | 826*310mm                     | 826*310mm                     | 826*310mm      | 826*280mm    |
| Mattress tray size                      | 630*360mm                     | 630*360mm                     | 630*360mm      | 630*360mm    |
| Power supply                            | ≤400VA                        | ≤400VA                        | ≤400VA         | ≤400VA       |
| Temperature controlled by microcomputer | Air and skin temp<br>Air temp | Air and skin temp<br>Air temp | Air temp       | Air temp     |
| Air temp control range                  | 20°C-37°C                     | 20°C-37°C                     | 20°C-37°C      | 20°C-37°C    |
|   | 37°C-39°C                     | 37°C-39°C                     | 37°C-39°C      | -----        |
| Skin Temp control range                 | 30°C-37°C                     | 30°C-37°C                     | -----          | -----        |
|   | 37°C-38°C                     | 37°C-38°C                     | -----          | -----        |
| Skin Temp sensor accuracy               | ≤0.3°C                        | ≤0.3°C                        | -----          | -----        |
| Humidity display range                  | 5%-99%                        | -----                         | -----          | -----        |
| Temperature fluctuation                 | ≤0.5°C                        | ≤0.5°C                        | ≤0.5°C         | ≤0.5°C       |
| Mattress temperature uniformity         | ≤0.8°C                        | ≤0.8°C                        | ≤0.8°C         | ≤0.8°C       |
| Temperature rise time                   | ≤30min                        | ≤30min                        | ≤30min         | ≤30min       |
| Noise level within hood environment     | ≤55dB                         | ≤55dB                         | ≤55dB          | ≤55dB        |
| <b>Alarms</b>                           |                               |                               |                |              |
| Power failure alarm                     | yes                           | Yes                           | yes            | yes          |
| Fan failure alarm                       | yes                           | Yes                           | yes            | yes          |
| Sensor failure alarm                    | yes                           | Yes                           | yes            | yes          |
| High air temp alarm                     | +1.5°C                        | +1.5°C                        | +1.5°C         | +1.5°C       |
| Low air tem alarm                       | -2.5°C                        | -2.5°C                        | -2.5°C         | -2.5°C       |
| High skin temp alarm                    | +1.0°C                        | +1.0°C                        | ----           | ---          |
| Low skin tem alarm                      | -1.0°C                        | -1.0°C                        | -----          |              |
| Over air tem alarm                      | ≤38°C, ≤40°C                  | ≤38°C, ≤40°C                  | ≤38°C, ≤40°C   | ≤38°C        |
| Over skin tem alarm                     | ≤38°C, ≤39°C                  | ≤38°C, ≤39°C                  | ≤38°C, ≤39°C   | --           |
| System failure alarm                    | yes                           | yes                           | yes            | --           |
| Alarm silence function                  | yes                           | yes                           | yes            | ---          |
| <b>Operational condition</b>            |                               |                               |                |              |
| Environment temperature                 | +20°C--+30°C                  | +20°C--+30°C                  | +20°C--+30°C   | +20°C--+30°C |
| Environment relative humidity           | 5%-99%                        | 5%-99%                        | 5%-99%         | 5%-99%       |
| Environment air velocity of flow        | <0.3m/s                       | <0.3m/s                       | <0.3m/s        | <0.3m/s      |
| <b>Others</b>                           |                               |                               |                |              |
| RS232 interface                         | yes                           | yes                           | yes            | yes          |
| Railing                                 | yes                           | yes                           | yes            | ----         |
| Infant bed tilt adjustment              | ±10° step less                | ±10° step less                | ±10° step less | -----        |
| Max load of mattress tray               | 10kg                          | 10kg                          | 10kg           | 10kg         |
| IV Pole Max load                        | 2kg                           | 2kg                           | 2kg            | 2kg          |

## HB104 Infant Radiant Warmer

1. Servo Control Mode: air temperature
2. Instant Parameter Display: set temp, skin temp, heat power rate;
3. Audible/Visual Alarms: temp deviation, sensor failure, power failure, temp override;
4. Tilting Bed with Rotary Radiant Head
5. X-ray Cassette Tray under infant bed, examination light of high illuminance;
6. Use anti-blast quartz infrared tube as radiant heating source.



## HB105 Infant Radiant Warmer

1. Temperature Control Mode: pre-heating control, servo control & manual control;
2. Instant Parameter Display: set temp, skin temp, heat power rate;
3. Built-in APGAR Timer and  $>37^{\circ}\text{C}$  preset function
4. Audible/Visual Alarms: temp deviation, sensor failure, power failure, temp override;
5. Tilting Bed with Rotary Radiant Head;
6. X-ray Cassette Tray under infant bed, examination light of high illuminance;
7. Use anti-blast quartz infrared tube as radiant heating source.



## HB106 Infant Radiant Warmer

1. Temperature Control Mode: pre-heating control, servo control & manual control;
2. Instant Parameter Display: set temp, skin temp, heat power rate;
3. Built-in APGAR Timer and  $>37^{\circ}\text{C}$  preset function
4. Audible/Visual Alarms: temp deviation, sensor failure, power failure, temp override;
5. Tilting Bed with Rotary Radiant Head;
6. X-ray Cassette Tray under infant bed, examination light of high illuminance;
7. Use anti-blast quartz infrared tube as radiant heating source;
8. With phototherapy unit;
9. With two oxygen cylinders;
10. With Suction, with neonate resuscitation.

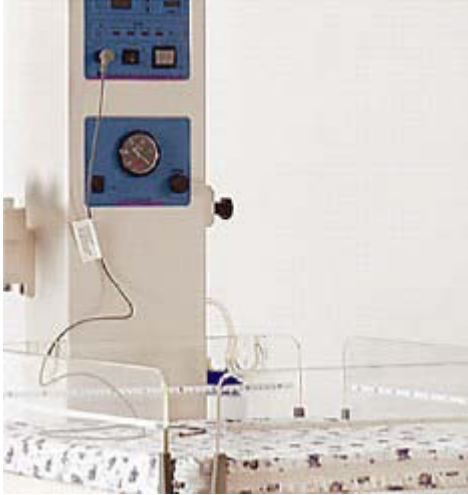




**Optional Device:**

Intra low-pressure suction(0-25kpa)

A set of white phototherapy or LED blue phototherapy light mounting beside radiant head of infant radiant warmer





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## Technical Specifications:

|   | HB104          | HB105                    | HB106                     |
|---|----------------|--------------------------|---------------------------|
| Operational condition   | +18°C-+30°C    | +18°C-+30°C              | +18°C-+30°C               |
| Environment temperature   | 30%-75%        | 30%-75%                  | 30%-75%                   |
| Environment relative humidity                                   | <0.3m/s        | <0.3m/s                  | <0.3m/s                   |
| voltage   | ≤1000VA        | ≤1000VA                  | ≤1000VA                   |
| Temperature control mode  | automatically  | Pre-heat,auto and manual | Pre-heat, auto and manual |
| Temperature control range                                       | +25°C-+37°C    | +25°C-+37°C              | +25°C-+37°C               |
|   |                | +37°C-+38°C              | +37°C-+38°C               |
| Temperature sensor uniformity                                   | ≤0.3°C         | ≤0.3°C                   | ≤0.3°C                    |
| Mattress temperature uniformity                                 | ≤2°C           | ≤2°C                     | ≤2°C                      |
| Temperature rise time   | ≤45min         | ≤45min                   | ≤45min                    |
| Heat output indicate  | 0-100%         | 0-100%                   | 0-100%                    |
| Radiant box horizon angle adjust range                          | 0±90°step less | 0±90°step less           | 0±90°step less            |
| Mattress tray size  | 68*56cm        | 68*56cm                  | 68*56cm                   |
| Mattress tilt adjust range                                      | 0±10°step less | 0±10°step less           | 0±10°step less            |
| Mattress tray Max.Load  | 10kg           | 10kg                     | 10kg                      |
| Transfusion pole Max. Load                                      | 2kg            | 2kg                      | 2kg                       |
| Shelf Max.Load  | 2kg            | 2kg                      | 2kg                       |
| X-ray shelf   | yes            | yes                      | yes                       |
| RS-232 connector  | -----          | yes                      | yes                       |
| Mattress to Radiant box   | 81cm           | 81cm                     | 81cm                      |
| Mattress infrared wave length                                   | 1-3um          | 1-3um                    | 1-3um                     |
| APGAR timer   | -----          | yes                      | yes                       |
| <b>alarms</b>   |                |                          |                           |
| Power failure alarm   | yes            | yes                      | yes                       |
| Sensor failure alarm  | yes            | yes                      | yes                       |
| Temperature deviation alarm                                     | ±1°C           | ±1°C                     | ±1°C                      |
| Over temperature alarm  | ≤38°C          | ≤38°C, ≤39°C             | ≤38°C, ≤39°C              |
| Low-pressure suction  | optional       | optional                 | yes                       |
| Operating noise   | -----          | -----                    | ≤55db                     |
| White phototherapy light  | -----          | -----                    | 1set                      |
| 7L oxygen cylinder(with oxygen manometer and oxygen flow meter) | -----          | -----                    | 2sets                     |
| Neonate resuscitation bag                                       | -----          | -----                    | 1set                      |

## HB2000 Transport Incubator

1. Air mode and Baby mode controlled by micro-computer;
2. Use AC Power and DC Power alternatively, DC 12V or DC 24V Power on the ambulance;
3. Set temperature, air temperature, baby temperature and internal battery voltage can be displayed separately;
4. Failure alarm indication;
5. Double wall Acrylic glass hood with side door so that the bassinet can be pulled out from it;
6. Natural air flow humidity;
7. The height of whole unit can be adjusted;
8. With Oxygen cylinder and Oxygen supply configuration;
9. Observation lamp.

### Standard configuration:

Main body (including the hood, controller, bassinet, internal battery, and observation lamp) oxygen cylinders, oxygen supply system, skin temperature sensor, IV pole, mattress, adjustable stand.

Optional configuration: >37 degree, override temperature mode

### Specifications:

AC power supply: AC220V-230V/50HZ

DC power supply: DC12V/10A or DA24V/6A

Input power: 400VA

Model of control: air mode and baby model controlled by micro-computer

Air temperature control range: 25 °C-37°C override mode: 37-38°C

Baby temperature control range: 34-37°C override model: 37-37.5°C

Skin temperature sensor accuracy:  $\leq 0.3^{\circ}\text{C}$

Temperature variability:  $\leq 1^{\circ}\text{C}$

Temperature uniformity:  $\leq 1.5^{\circ}\text{C}$  (mattress is on the horizontal position)

Noise inside hood:  $\leq 155\text{dB(A)}$  (environment noise  $\leq 45\text{dB(A)}$ )

Failure alarm: over-temperature alarm, temperature deviation alarm, sensor alarm, motor fan failed alarm, power failure alarm and so on

Operating at temperature equilibrium: 90min (set temp 36°C ambient 15°C)

Environmental temperature

Operating range: 10-30°C (set temp should be higher 3°C than environmental temp)

Ambient air movement rate:  $\leq 1.0\text{m/s}$

Package: each unit is packed as two cartons

Size (main body): 109\*65.5\*76cm

Size (Cabinet): 138\*61\*40cm

Gross weight (main body): 80kg

Gross weight-Cabinet: 53kg



## HB107 Infant Phototherapy Unit



Single-side & five blue lights

LED Digital Timer, display therapy time & total time

Lifting & Mobile Stand, radiant head rotating by angle of 30° / 60° / 90°

## HB109 Infant Phototherapy Unit



Use LED light as lighting source, LED digital timer, display therapy time & total time

## HB108 Infant Phototherapy Unit



Single-side & LED lights;

LED Digital Timer, display therapy time & total time;

base with sucker, top-put type applicable for any model of incubator.

## HB108A Infant Phototherapy Unit



Use LED light as light source, LED digital timer, display therapy time and total time. Roof type appliance for any model of incubator.



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## Technical Specifications:

|                             | HB107               | HB108           | HB109         |
|-----------------------------|---------------------|-----------------|---------------|
| Input power                 | 150VA               | 150VA           | 150VA         |
| Light source                | Blue light tube/LWS | Blue light tube | LED light     |
| Tube quantity               | 5                   | 5               | -----         |
| Light source effective life | 2000 hours          | 2000 hours      | 100,000 hours |
| Wave length                 | 425nm-475nm         | 425nm-475nm     | 460nm-470nm   |
| Light radiancy              | ≥550um/cm2          | ≥550um/cm2      | ≥2000um/cm2   |
| Time display range          | 999hour,99min       | 999hour,99min   | 999hour,99min |
| Display time accuracy       | 2hour±1min          | 2hour±1min      | 2hour±1min    |
| Adjust angle                | 30° , 60° , 90°     | -----           | -----         |
| Adjust height               | 110mm-150mm         | -----           | -----         |
| With castor                 | yes                 | -----           | -----         |
| Working environment         | +10°C--+30°C        | +10°C--+30°C    | +10°C--+30°C  |
| Package size                | 96*52*26cm          | 71*39*21cm      | 71*39*21cm    |
| Gross weight                | 20kg                | 8kg             | 12kg          |