COMEN

Incubator Series Configuration Table

Configuration \ Model	B6 Infant Monitoring Incubator	B3 Infant Incubator
Dimension & Weight	113cm (L) ×68cm (W) ×160cm (H)	113cm (L) ×65cm (W) ×135cm (H)
Weight	120kg	100kg
Battery	working time≥1h	working time≥1h
C31 modular	▲	×
Weight measurement	▲	▲
X-ray tray	√	√
USB upgrade	√	√
$EtCO_2$	▲	▲
O_2 concentration monitoring	▲	▲
Apnea monitoring		
Apnea Self-saving monitoring		
Servo O_2 supply		
Up-lifting	√	×
Camera	▲	▲
Recorder	▲	▲
Control mode	Air mode and infant mode	
>37℃	Control through >37℃ button and screen interface	
Noise level	≤50dB	
Air flow rate	<0.1m/s	
Power-operated tilting of bed	-13° ~ +13°	
Rated power supply	100-250V~ 50/60Hz 6.6A	

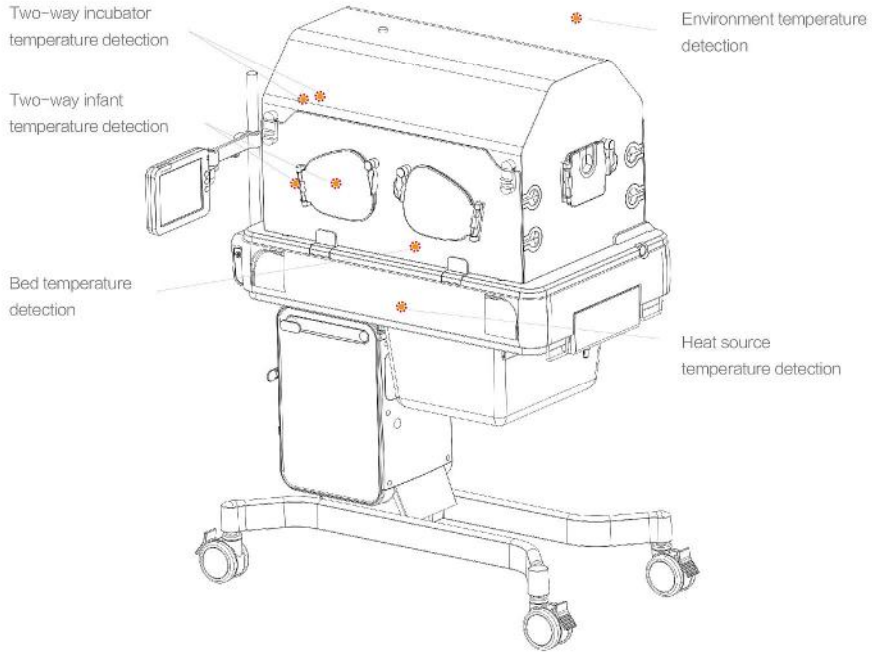
√: Standard configuration ▲: Optional configuration

B3 Infant Incubator

Incubator System

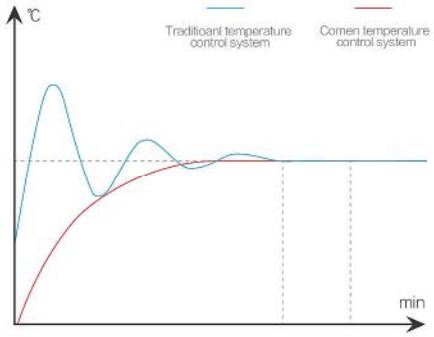
Before the establishment of this project, COMEN R&D is thinking of how to make an incubator that becomes one of the leading incubators. Technology is the key; they have overcome a number of technical problems, from the control of temperature, humidity, oxygen concentration, to the safety of materials, to forge this COMEN incubator.

temperature control technology



7 channels temperature collection:

In order to have more specific inter temperature control, to avoid overheat and ensure the safety of infants. B8 has used up to 7 channels temperature sensors.



Constant temperature figure

Intelligent Variable Resistance Heating Technology

Using resistive double heating tube, double fin radiator, cooperate with intelligent control system to work with time-sharing, to have a faster heating speed, heating time ≤30min so as to shorten the lead time for infants to live in a safe environment;
Meanwhile, ensure the temperature fluctuationless than 0.3 ° C,
To create a stable temperature environment for the infants, Advanced air circulation system: symmetrical double inlet, symmetrical double outlet design,
A more uniform inner incubator temperature and humidity.

3 independent over temperature protection:

System protection

When temperature in the incubator is too high, the control system is able to detect and turn off heating instrument automatically.

Hardware protection

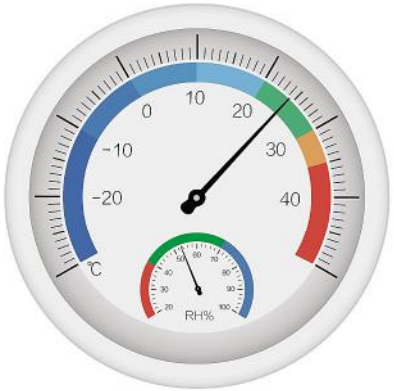
When temperature of the hardware sensor below the bed exceeds limits, the heating instrument would be turned off after receiving corresponding electrical signals.

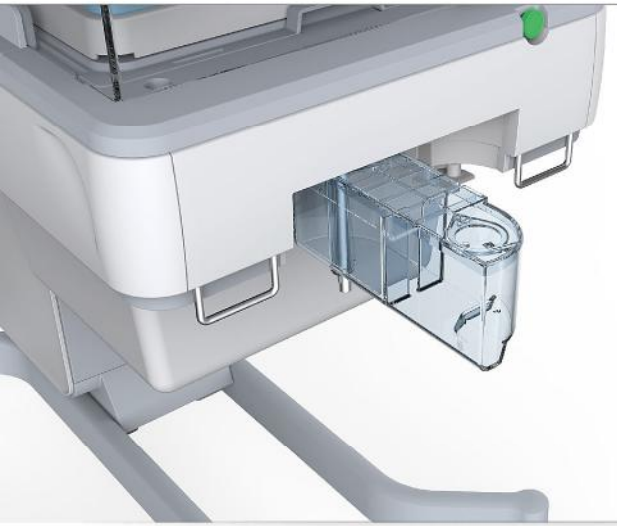
Mechanical protection

the heating instruments are with mechanical strain over temperature switch. When temperature of the heating instruments exceed the limit, the mechanical sensor will turn off the heating instruments with its deformation.

Humidity control technology

Using PWM control technology, and work with highly-effective humidity generator, to achieve rapid wetting effect, so that to create an environment that more close to maternal environment, and neonates could sleep comfortably.





- **Boiling sterilization:** heating the water inside the humidity generator to boiling, to realize disinfection and sterilization. We designed a humidification system according to the principle of gravity that reduce the residue of moisture, and effectively reduce the breeding of bacteria.
- **Water container:** Using heat-resisting material, with characteristics of corrosion preventive and long service life, adapt up to 134° C high temperature steam sterilization.
- **Inner box wind speed control:** ≤0.1m/min, reduce the surface water loss of infants, lower the inner box noises and create a more quiet and comfortable environment.

Material

- The transparent cover uses Perspex that is food grade, with high transparency, safety, and environmental protection.
- The bed uses original color environmental friendly ABS material, easy to clean, safe and reliable, to create a more safe and environmentalfriendly environment for neonates.

Rolling castor: from STEINCO, this company has 86 years experiences in this industry, it is also the cooperator of Mercedes Benz, BMW.

Oxygen concentration control technology

- **Servo Oxygen Supply:** According to the calculation of the proportion of Air-Oxygen, along with the concentration of Oxygen to realize advanced close-loop feedback technology.
- **One-press O_2 concentration calibration:** Adopted with Comen patented technology—two-point calibration (21% and 100%), oxygen concentration detection precision reaches to ±2%, higher than other brands.

Give Wings to the Parents Love

Worrying with anxiety, exhortation with care, looking with impatience, and leaving with reluctance are commonly seen outside of patient rooms. The best wishes of parents are stay 24 hours a day with their child.In order to avoid bacterial contamination, and to prevent frequent interruption of doctors' work, doctors have to implement the traditional visit system. COMEN builds a bridge between babies and parents with love, to alleviate their tension and anxiety, to realize real-time observation even away from the baby.

Traditional visiting:

Parents have to wait for long time to see their baby in the Department.

Remote Visiting System:

B8 support remote visiting function,
parents can see their baby through an APP on their PC, handset/Ipad.

Spot Check System:

Doctors could turn on/off observation function freely, and it also has video clip, video playback functions to retain valuable evidences and cases.

Ingenuity Serves for Benevolence, All for Love

Ingenuity is shining at every part of its body. Thinking in a way that healthcare providers think,
to help healthcare provider to reduce their workload,
to improve the effectiveness of their treatment,
to avoid operational risks, is the mission of us.

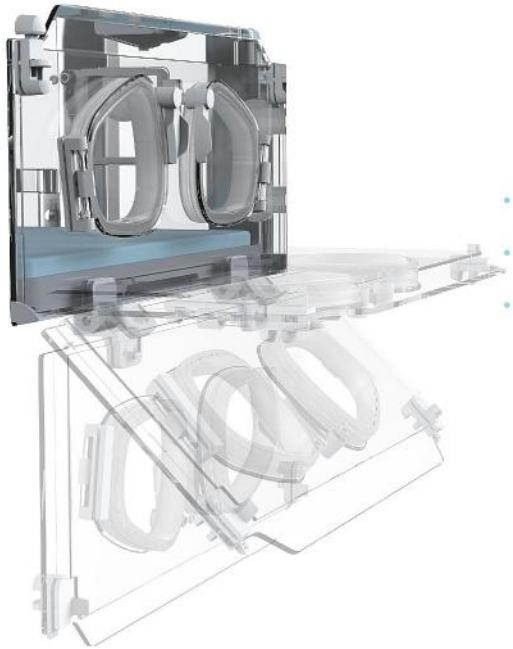
Human-Machine interaction

8 inches LED touch-screen, key board with
backlit and touch operation,
Screen angel adjustable, easy for observation.

Intelligent Adjustment

Bed tilted angle support maximum 13° , touch screen control, intuitive operation.
Support one press "flat, 5° , 12° " angel adjustment, to realize instant operation, saving time for clinical emergency, and nursing operation.

Unarmed disassemble of beds and sink to realize through cleaning and disinfection. The air circulation system can be thoroughly cleaned without removing the temperature control system and the heating equipment.



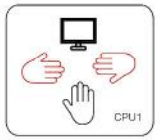
Integrated design of monitor and incubator:

- easy to manage equipments . Integrated design is able to avoid risk of monitor falling off.
- Neonatal specialized monitoring to avoid mistake operation of the monitor.
- The true realization of the integrated transport monitor and incubator.

Adopting damping design on the left and right acsess panel, easy to open and close. Slowly falling of the panel is able to get rid of hitting the incubator, creating a calm zone around the neonates.

Four independent CPU

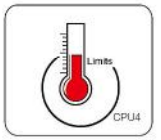
Four independent CPU system, these are human-machine interaction, alarm system, temperature collection and thermoregulation, each system works independently without interference to each other, when one CPU fails, it won't affect other CPU systems.



Human-machine interaction

Alarm system

Temperature collection



Thermoregulation

Patient Case Management

Built-in 50mm thermal recorder, information such as vital parameters and incubator environment could be recorded.

Wards rounding / Remote Visiting System:

B8 support remote visiting and wards rounding function through internet with an APP on PC, handset/Ipad.

APP

Wired/wireless central monitoring system, automatic save and record infants' vital parameter and incubator parameters.