

COMeN

COMeN Share with the World



B8/B6 Neonatal Incubator

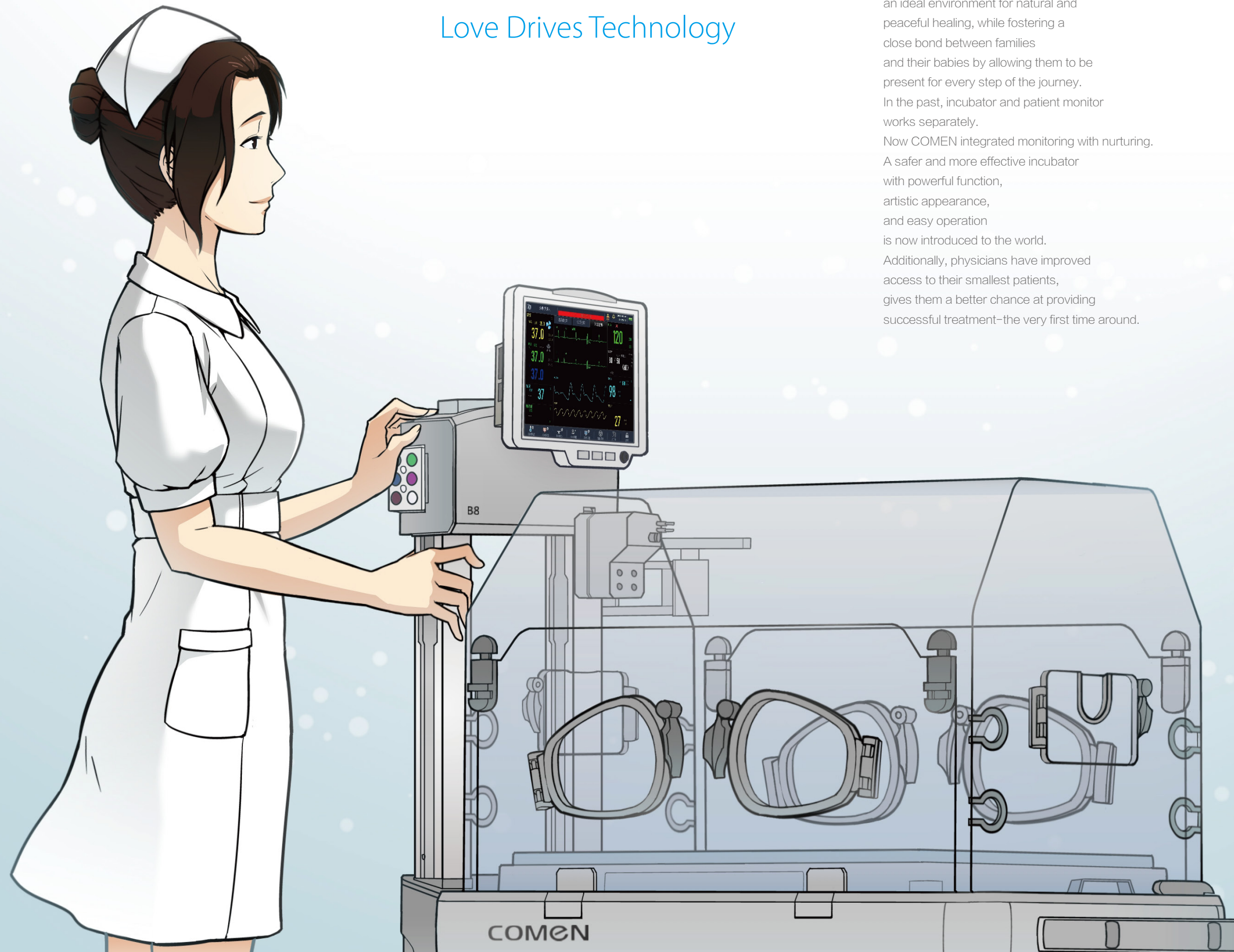


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When Incubator Encounters Monitor Love Drives Technology



Comen B8 Infant Incubator provides an ideal environment for natural and peaceful healing, while fostering a close bond between families and their babies by allowing them to be present for every step of the journey. In the past, incubator and patient monitor works separately. Now COMEN integrated monitoring with nurturing. A safer and more effective incubator with powerful function, artistic appearance, and easy operation is now introduced to the world. Additionally, physicians have improved access to their smallest patients, gives them a better chance at providing successful treatment—the very first time around.



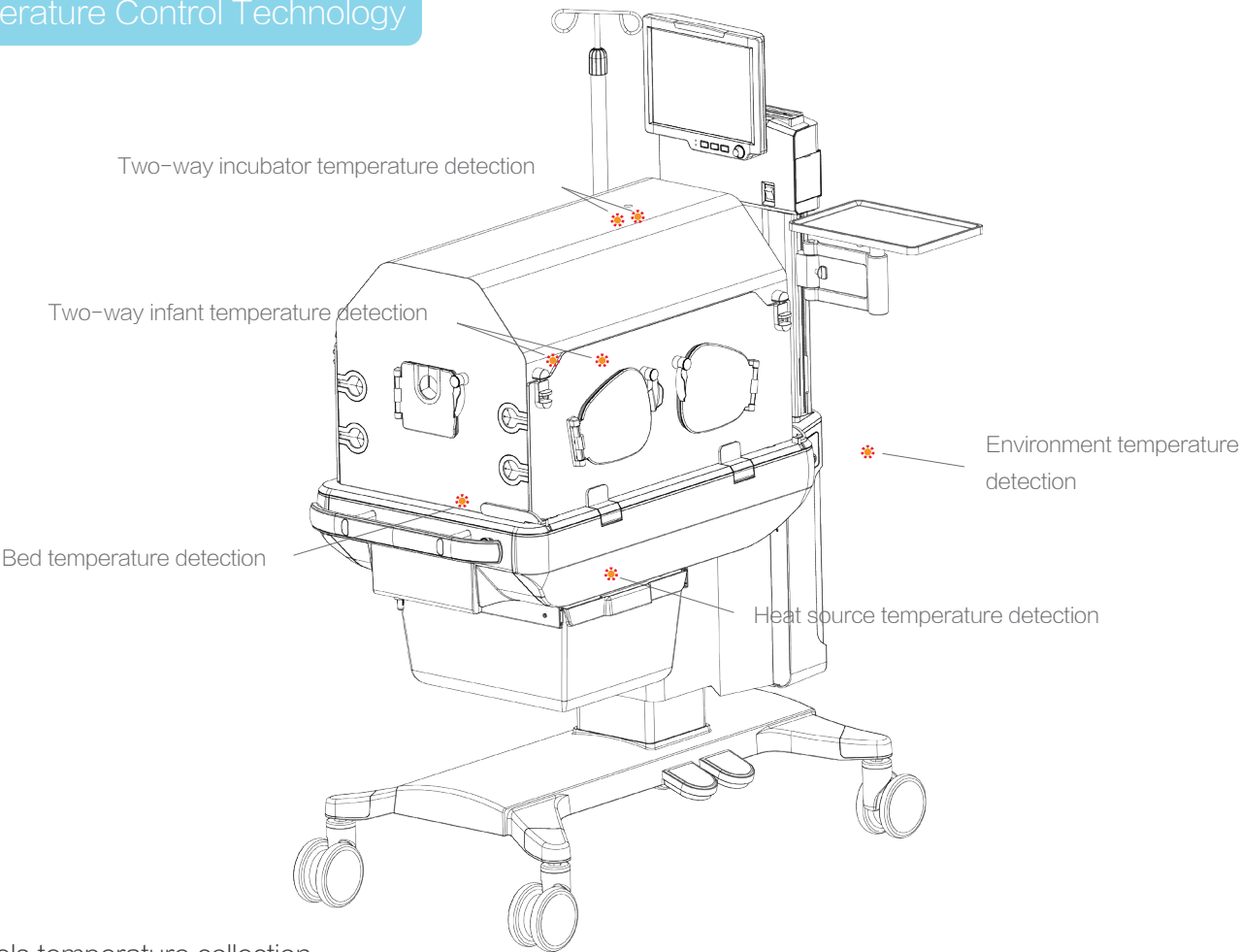
A Deeper Love

Neonatal incubator is warming equipment used for providing constant temperature and humidity for treatment of premature infants and critically ill neonates which fit well with their physiological characteristics and needs. COMEN B8 incubator was thoughtfully designed to provides stable temperature and suitable humidity ambience. It also features configured vital signs monitoring function to care for even the most fragile patients.

Incubator System

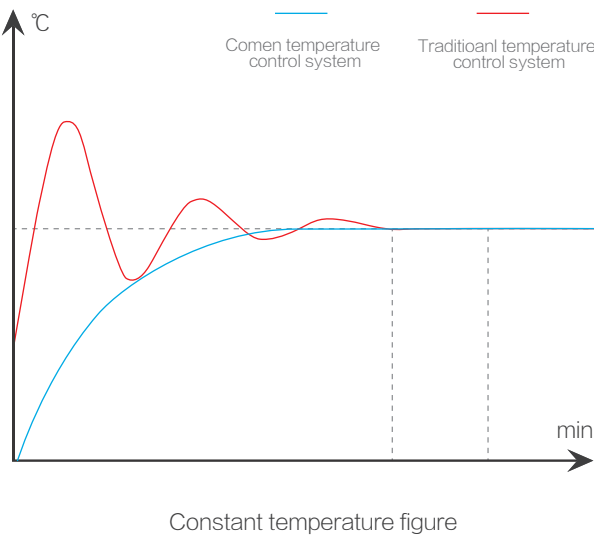
To develop the world's leading incubator, COMEN has always strive to surpass the top-level competitors. “Whatever the mind can conceive and believe, it can achieve.” With 720 consecutive days of dedication and overcoming difficulties along the way, COMEN B8 incubator, which provides stable temperature, and suitable humidity and O₂ concentration for newborns, was brought into being.

Temperature Control Technology



7 channels temperature collection :

Appropriate temperature inside the incubator can reduce neonates' water loss and reduce their risk of dehydration, B8 double guarantee the control of temperature through 7 channels of detection.



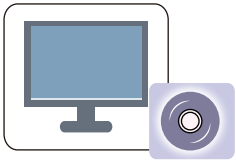
Intelligent Variable Resistance Heating Technology

Thanks to dual resistive heating tube and fin-style radiator, B8 shorten heating time of the incubator to ≤ 35 mins while working with its control system, which saves time in immediate care of preterms, in addition, temperature fluctuation is significantly reduced to 0.5 °C.

Advanced air circulation: Symmetrical dual inlet and outlet.

A more comfortable environment with stable tempratureand suitable humidity ambience is within reach.

3 independent over-temperature protection :



System protection

When the control system detects that the temperature inside the incubator exceeds limits, the heating will be stopped automatically



Hardware protection

A sensor is applied to control temperature through sending signals to heating instrument

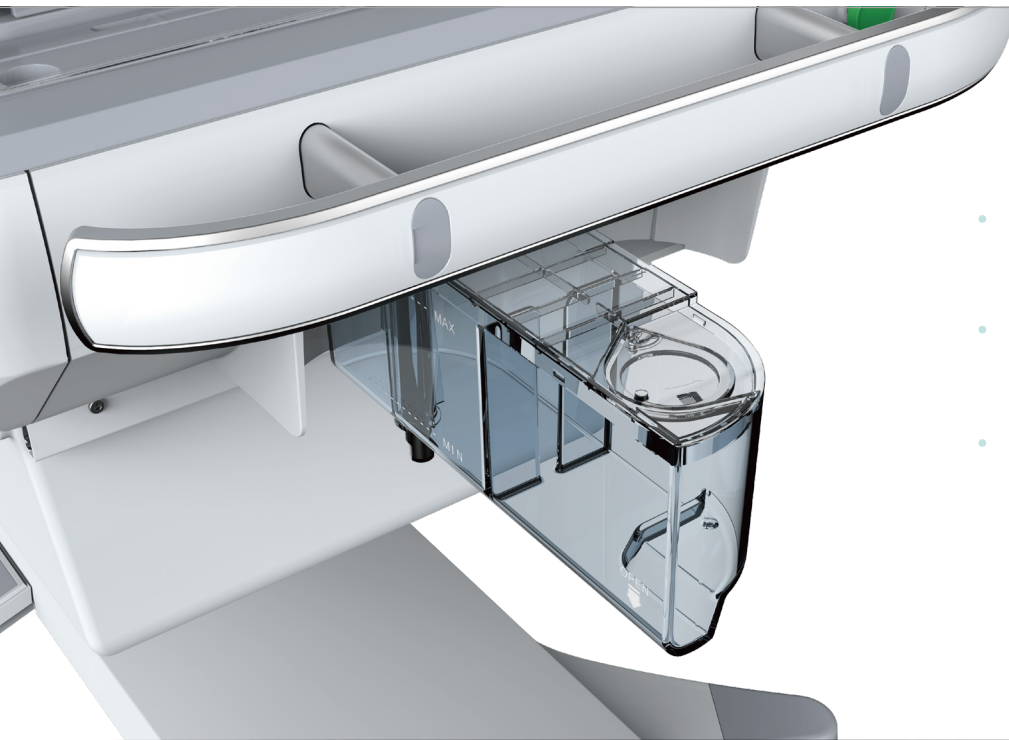
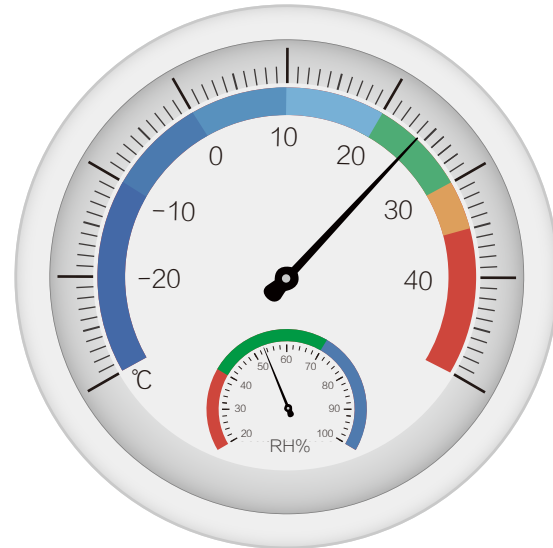


Mechanical protection

A mechanical over-temperature switch isused to prevent over temperature utilizing its high-temperature deformationcharacteristics

Humidity Control Technology

Thanks to PWM control technology and advanced humidity generator, the B8 infant incubator provides fast humidification so that an environment similar to mother's womb is created in a short period of time.



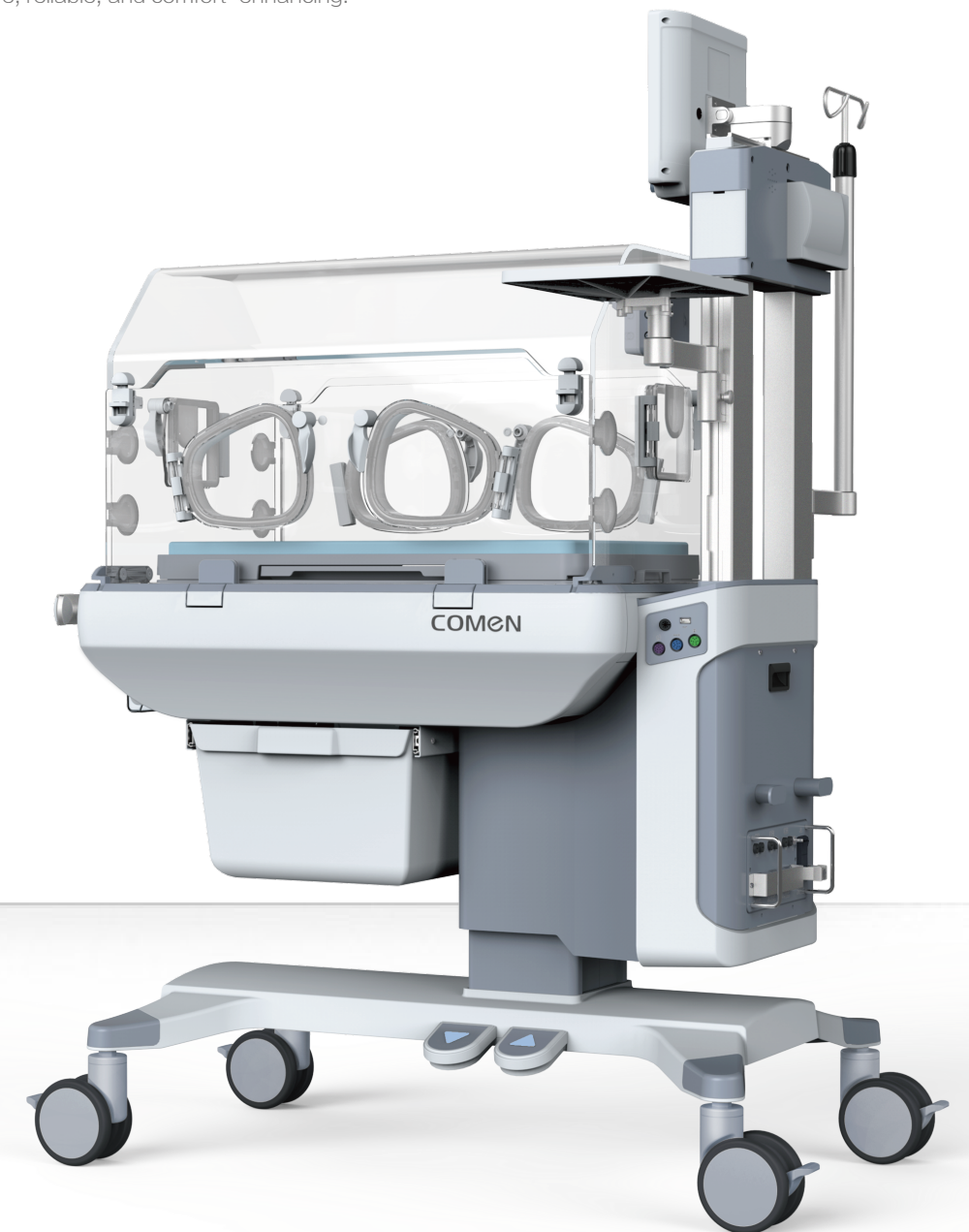
- Effective humidity of up to more than 95%:
Suitable for premature infants with low weight
- Titanium alloy material for evaporation: corrosion resistance and limescale reduction
- PEEK material for thermal isolation: insulation sleeve is made of PEEK material, it's corrosion resistant, high temperature resistant and high pressure resistant.

Oxygen Concentration Control Technology

- Servo Oxygen Supply: With O₂ concentration adjustment according to air-O₂ distribution, B8 infant incubator provides advanced close-loop feedback.
- One-press O₂ Concentration Calibration: Thanks to Comen patented technology—two-point calibration (21% and 100%), O₂ concentration detection precision reaches $\pm 2\%$, higher than other brands.

Material

- The transparent cover is made of food-grade Perspex materials with high transparency, safety, and environmental friendly characteristics.
- The bed adopts nature color and environmental friendly ABS materials, more safe, reliable, and comfort-enhancing.



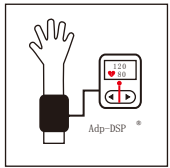
Specialized Neonatal Monitoring System

Specialized Neonatal Monitoring System is a tailored system created for NICU by COMEN, featuring ExNeo® ECG technology, Adap-DSP® self-adapt NIBP technology, Masimo SpO₂, Apnea self-rescue technology, and oxygen concentration detection function. And it is equipped with biocompatible specialized neonatal accessories. It not only ensures the correctness of ECG collection and NIBP measurement, but also solves the problem of neonatal respiratory distress syndrome, this system was first used in specialized neonatal monitor-COMEN C60.



ExNeo® Neonate ECG Measurement Technique

Due to the big difference between ECG signal of neonates and adults, ECG measurement has long been a difficult problem faced by neonatal monitoring workers. In addition, newborns' crying and struggling during ECG testing make this issue even worse. So it is difficult for traditional monitor to provide accurate ECG measurement data for neonates. Based on the feature that neonates' fast heart rate change, ExNeo® ECG measurement technique focus on improving ECG signal acquisition sensitivity and signal resolution ratio to reduce neonates moving interference to the utmost, so as to guarantee ECG measurement accuracy and breathing rate test accuracy.



Adap-DSP® Adaptive Signal Processing Technology

Taken into consideration the low blood pressure and weak perfusion in neonates, Comen use Adap-DSP® system to provide more accurate blood pressure measurement. Neonates are highly vulnerable, and a small mistake during measurement would cause serious harm to them. Designed with unique neonate specialized measurement mode, Comen's neonatal monitor is able to eliminate the risk of failed surgery. Both software and hardware accessories are designed with over-pressure protection and the maximum pressure of NIBP cuff that is no more than 150mmHg to guarantee newborns' safety. Comen's neonatal monitor improves the anti-interference performance of BP measurement to reduce influence from newborns' frequent movement, so regardless of whether the neonates are moving or not, the monitor is able to guarantee its test accuracy.



Masimo SET Neonate SpO₂ Technique

Numerous trials have been made to improve the detection sensitivity of pulse and SpO₂ value of neonates given the condition that they have low blood pressure and blood perfusion. The standard perfusion technology developed by Masimo is able to read at least 1/10 lower blood perfusion compared to traditional pulse oximeter. Massimo SET performance on anti-interference is also outstanding. At present, the majority of NICU rooms have equipped with two or three high-end Massimo's SpO₂ monitor to meet the need of critically ill patients. Equipped with various kinds of clips and probes, it is suitable for babies of different size.



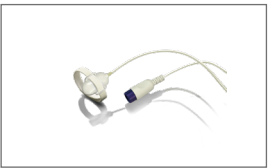
Apnea self-saving Monitoring

Apnea is common in newborns newborns, and it is also a serious problem in NICU. If not treated in time, oxygen deprivation may lead to brain damage in neonates, which would have great impact on their metal development. In severe cases, it can cause neonatal death. Apnea self-saving monitoring can monitor newborns breathing in various ways and simulate the nurse's patting the soles of newborns to wake them up from apnea.



Masimo SpO₂

Use Masimo SpO₂ technology, featuring specialized neonatal suffocation self-saving function and oxygen density monitoring function.



Apnea Self-saving Probe

B8 has a probe that is wrapped under the infant's foot to stimulate neonates resume breathing.
Abdomen attached respiration sensor : Neonates conduct abdominal breathing. Attach the sensor to the abdomen, obvious abdomen up and down movements squeeze the sensor and transforms respiratory signals to electric ones for the system to collect and identify.



Neonatal ECG Cable and Electrodes

Neonatal ECG cable and electrodes have passed the biological compatibility test.



Neonatal Monitor Protection

Various specification of neonates NIBP cuffs to guarantee measurement accuracy of different size of newborns

Ingenuity Serves for Benevolence All for Love

Ingenuity shines at every part of the equipment.
Think from the perspective of healthcare providers
to help reduce their workload, improve treatment
effectiveness, and avoid surgical risks.



Electric Lift

Auto lifting of the incubator.
Pedal and touch screen dual operation.

Intelligent Adjustment

Adjustable bed tilted angle support
and touch screen control.



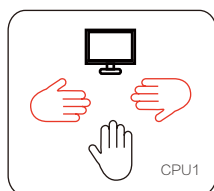
The bed and sink can be dismantled, cleaned and disinfected by hand.
The air circulation system can be thoroughly cleaned without removing the temperature control system and the heating equipment.



Human-machine interaction
12.1 inches LED touch-screen, key board with backlit and touch operation.
Screen angle adjustable, easy for observation.

Four independent CPU

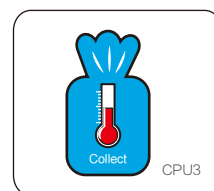
Four independent CPU systems, namely human-machine interaction, alarm system, temperature collection and thermoregulation. Each system works independently without interference to each other. When one CPU fails, other CPUs won't be affected.



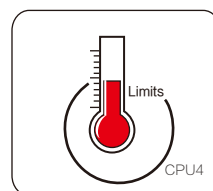
Human-machine interaction



Alarm system



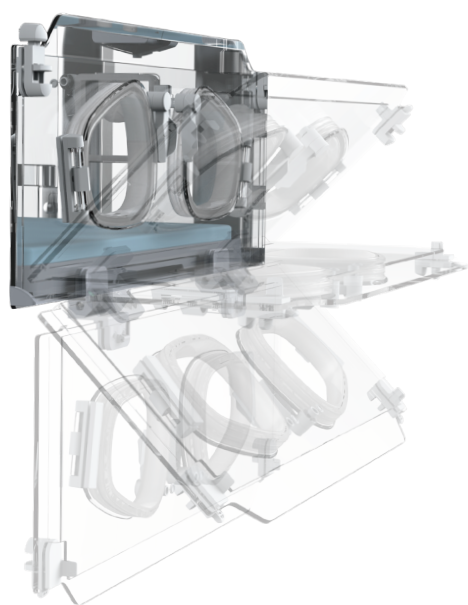
Temperature & humidity collection



Temperature & humidity control

Patient Record Management

Built-in 50mm thermal recorder, enables information about incubator environment, vital parameters, etc. to be recorded.

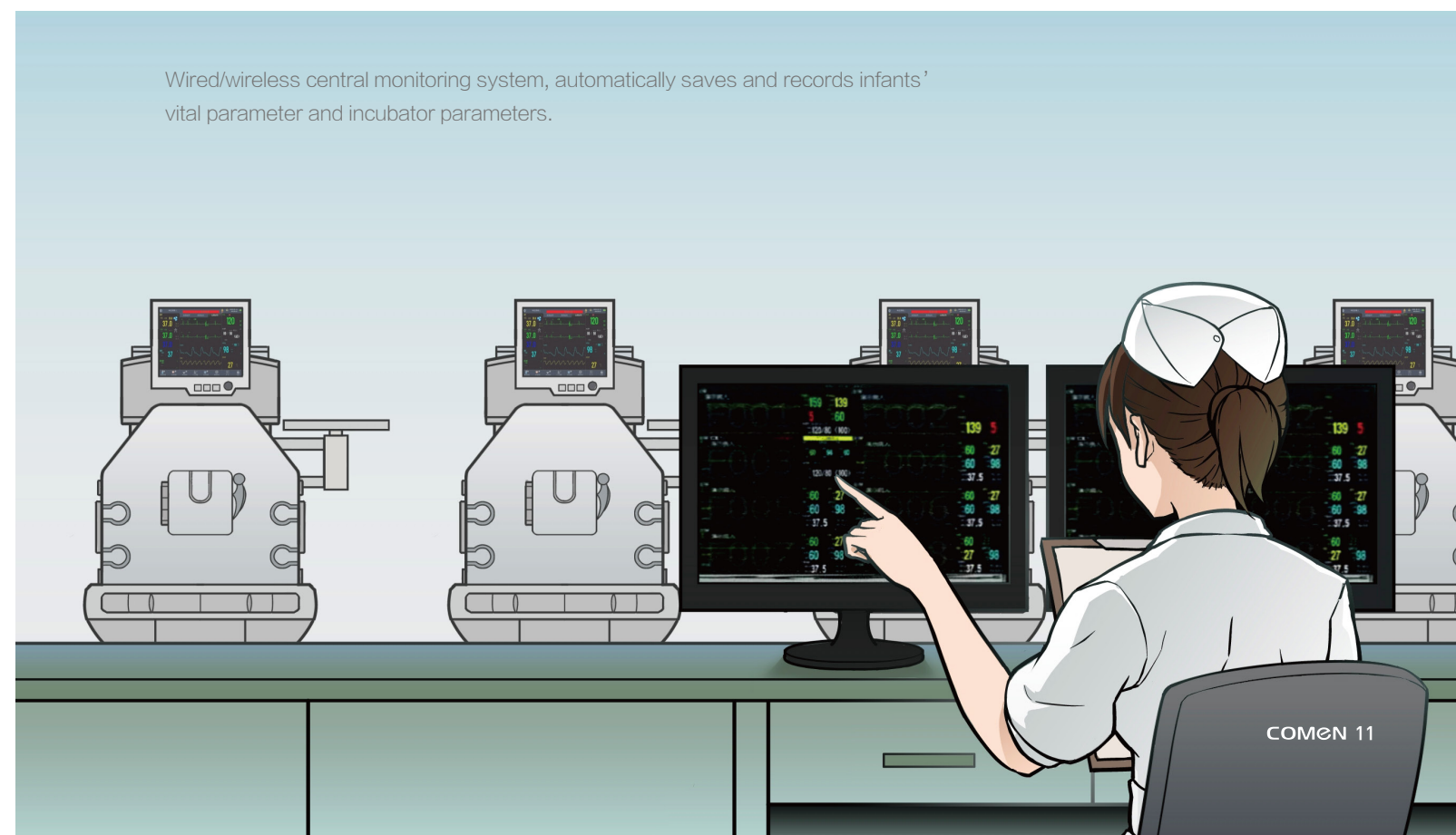


Integrated design of monitor and incubator:

- Makes it easy to manage equipment and avoid the risk of monitor falloff.
- Neonatal specialized monitoring to avoid mis-operation of the monitor.
- The true realization of the integrated transport of monitor and incubator.

Adopts easy-to-open damping design on the left and right access panel, The slow-falling panels reduce the noise to the largest extent, creating a quiet environment for the neonates.

Wired/wireless central monitoring system, automatically saves and records infants' vital parameter and incubator parameters.



Love Promotes
Baby Health
Love Accompanies
Baby Growth

Comen constantly instills creative technology into the design of products. From a common medical device provider to a comprehensive medical solution provider developing new neonatal monitoring system for NICU, Comen never stops the quest to promote human health.



NICU Comprehensive Solution

Building on the leading edge in the field of monitoring, COMEN now has the first specialized neonatal monitor in the world, neonatal non-invasive ventilator with integrated non-invasive ventilation solution, all in one radiant rescue station, ceiling beam/pendant, air-oxygen blender, bubble CPAP, infusion workstation etc., creating the most professional NICU comprehensive solution.



B8
Neonatal Incubator



NV8
Neonatal Ventilator



C60
Specialized Neonatal Monitor



D9
Ceiling pendant



BQ80
Infant Radiant Warmer



M200
Infusion Workstation



KL20
Oxygen and Air Blender