



JW HOSPITAL EQUIPMENT SERIES
INFANT CARE SYSTEM

Toward the world, for the health of mankind!

Intending to the greatest “**MEDIPIA(Medical Utopia)**” in the field of health & medicare for the human beings, JW Medical Corporation has produced the excellent medical instruments and the state of the art medical equipments for 30 years based on the slogan which is “Toward the world, for the health of mankind...”

In order to make much more contribution to the progress of mankind’s health industry and the advancement of medical welfare, JW Medical Corporation is producing the newest Radiology Diagnostic System including many kinds of medical equipments and developing technical manufactures to provide medical benefits for patients under the Inferior environment.

“**JW MEDICAL**” is a reciprocal profitable enterprise for customers with the best Intention, giving the greatest satisfaction to them.

INFANT CARE SYSTEM

| | |
|-----------------------|-----------|
| INFANT INCUBATOR | CHS-i3000 |
| INFANT INCUBATOR | CHS-i1000 |
| LED PHOTOTHERAPY UNIT | JW-PU1000 |
| INFANT WARMER | CBW-1100 |
| PHOTOTHERAPY UNIT | CHS-PU34 |



CHS-*i*3000

Infant Incubator





Touch panel control

- Temperature/Humidity/Oxygen/SpO2/Weight controlled and displayed by the LCD Monitor.
- Management of function trend is available.
- Alarm function on the LCD Monitor



Self Retractable Drawer

Self retractable drawer helps opening and closing smoothly and it also prevents noises which may frighten the infant.



Cassette type humidity chamber

- Possible to check water level from outside.
- Easy cleaning
(Detachable cassette type of water reservoir)
- Minimal structure of flow of humidification
(Minimize the risk of infection)



X-ray cassette dedicated Door

Change X-ray cassette without opening front door. Minimize the heat loss of an infant.



Rail system

Accessories such as IV Pole and shelves can be easily attached.



Dual Skin sensor

Control temperature more precisely using dual skin sensor.



Dial tilting(Rotary Tilting)

Adjust angle of the mattress in any angle.



10.1" of large screen helps a user to check the current status of the incubator from the long distance and a touch panel makes it convenient to enter or change settings.



User can monitor the status of immature infant e.g. vital sign more easily by emphasizing SpO2 and BPM figures and showing the wave and signal intensity graphically in real time



User can check the progress of change of each data such as temperature, humidity and oxygen concentration by showing the status of the incubator saved at regular intervals in a type of graph and chart on the screen.

Tubing management arm



Instrument shelf



X-ray cassette



Up/Down cabinet



X-ray cassette door



O2



SpO2



SPECIFICATIONS

| | | |
|-----------------------------------|-----------------------------------|--|
| Power Source | | AC 230V, 60Hz(Option:50Hz) |
| power consumption | Heater Controller Humidity Oxygen | 450W 80W 200W 20W |
| External display | | 10.1 inches Touch – LCD(32bit Color) |
| control mode | | Air/Skin Mode |
| Warm-Up Time | | Under 25min |
| Humidifier | | Auto Control |
| Water reservoir Capacity | | 1500ml |
| Skin Temperature | Display Range Control Range | 22℃ ~ 45℃ 34℃ ~ 39℃ |
| Air Temperature | Display Range Control Range | 5℃ ~ 50℃ 20℃ ~ 39℃ |
| Oxygen Concentration | Display Range Control Range | 0% ~ 99% 19% ~ 99% |
| Humidity Control | Display Range Control Range | 0%~99% 30%~90% |
| Dimension (W x H x D) | Body Mattress | 970 x 1645 x 708 686 x 30 x 369 |
| Mattress Tilting | | 0 ~ 12° |
| Noise level in Hood(dB(A)) | | <47 |
| Fuse | | 250V, 5A |
| Air Filter | | 0.5μm |
| Weight(Kg) | | 133Kg(Full Option) |
| Hood System | | Double Wall Type |
| Controller type | | Microprocessor |
| Alarms | | Power fail, System fail, Sensor fail, Over Temp fail Air flow fail, Air Temp fail, Skin Temp fail, Low-Water, SpO2 high/low Limit, BPM high/low Limit, SpO2 Sensor |
| X-ray Cassette Tray | | For 10" x 12" |

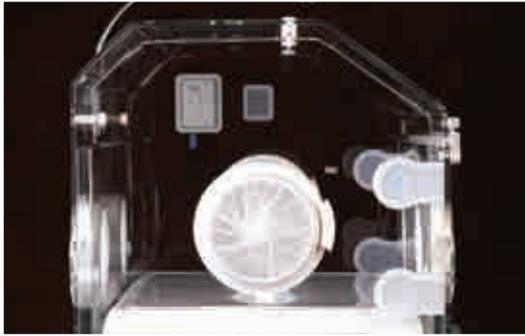
<Add-on unit>

| | | |
|----------------------|--|--|
| Weight Scale(| | – Scale Range : 0~15Kg – Resolution : 5g, Accuracy : ±2g – Function : Zero, Hold, Sequence |
| SpO2 Unit | | – Display Range : 1~100%SpO2 – Pulse rate display range : 25~240bpm |



CHS-i1000

Infant Incubator



Double Wall

Consistent air temperature is imperative to the development of a premature baby. The CHSi1000 infant incubator adopts Double Wall Structure to minimize radiant heat loss from the newborn baby skin and maintain air temperature at constant level by flowing warm air between inner wall and outer wall during the operation. Inner wall is designed to be detached easily from the main hood for cleaning the inside of the hood and sterilization.



Sensor Box

The controller module of the CHS-i1000 receives the data such as air temperature, skin temperature, humidity from the Sensor Box. These data are displayed on large LEDs of the control panel. The connector and skin sensor is easily detached from the sensor box when cleaning or sterilizing the incubator hood.

Air Wall(Curtain)

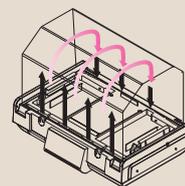
Air wall(Curtain) is incorporated into the new CHS-i1000 to help reduce temperature fluctuation within the incubator when the front door is opened for treatment of infant. The incubator will not drop by more than 2 .



LED Display : Air/Skin Temperature, Humidity, O₂, SPO₂ Control



Humidity Reservoir



Air Circulation System

8 Alarm function for safety

Power Fail. : When the power is off or disconnected accidentally.

System Fail. : When the system error occurs.

Over Temp. : When the air temp. is over maximum control range by 1 .

Air Flow : In case of non-operation of fan & motor.

Sensor Fail. : The sensors are disconnected or the wire of the sensors is broken.

Air Temp. : When the air temp. differ from setting temp. by over 1.5 or lower 3

Skin Temp. : When the real skin temp. differ from setting temp. by over 1.0

Low-Water : When the level of humidification water is lower than limit on the humidity reservoir.

In every case, the Alarm lamp will be flash and audible alarm will also sound



Gradual tilting grip (0° ~12°)



X-Ray Cassette Tray



Weight Scale



Up/Down Cabinet

Product Line up



| Type | | A | B | C | D | E | Remark |
|---------|-------------------------------|---|---|---|---|---|--------|
| Hood | Basic Type | ● | | | | | |
| | X-ray Cassette & Dial Tilting | | ● | ● | | | |
| | Weight Scale(Optional) | | | ● | | | |
| Cabinet | Fixed Type | | | | ● | | |
| | Up/down Adjustable | | | | | ● | |

Specifications

| | | |
|----------------------------|---|---|
| Power Source | | AC 230V, 50/60Hz |
| Power consumption | Heater Controller Humidity Cabinet | 450W 60W 23W 50W |
| Control mode | | Air/Skin Mode |
| Warm-Up Time | | Under 25min |
| Oxygen Concentration | | 21% ~ 80% |
| Humidifier | | Auto Control |
| Water reservoir Capacity | | 1,500ml |
| Skin Temperature | Display Range Control Range | 22°C~45°C 34°C~37°C(Override Mode:37.1 °C~38°C) |
| Air Temperature | Display Range Control Range | 5°C~50°C 20°C~37°C(Override Mode:37.1 °C~39°C) |
| Humidity Control | Display Range Control Range | 30% ~ 90% 30% ~ 90% |
| Dimension (W X H X D) | Hood Cabinet(Optional) Mattress | 830 X 480 X 500 1,060 X 701(630~880 : Option) X 642 705 X 20 X 370 |
| Mattress Tilting | | 0~12° |
| Rotary Tilting(Optional) | | |
| Noise level in Hood(dB(A)) | | < 47 dB(A) |
| O2 Control | | 21~65% |
| SPO2 Display | | 1~100% |
| Fuse | | 250V, 4A |
| Air Filter | | 0.5μm |
| Weight(Kg) | | 130kg(Full Option) |
| Hood System | | Double Wall Type |
| Controller type | | Microprocessor |
| Alarms(L.E.D) | | Power fail, System fail, Sensor fail, Over Temp fail Air flow fail, Air Temp fail, Skin Temp fail, Low-Water |
| X-Ray Cassette Tray | | For 10" X 12" |
| Weight Scale(Optional) | | - Scale Range : 0~15kg - Resolution : 5g, Accuracy : ±5g - Function : Zero, Hold, Tare |

Accessory

| STANDARD ACCESSORY | | OPTION ACCESSORY | |
|--------------------|--------|-------------------------------|--------|
| Filter | : 1pc | I.V Pole | : 1pc |
| Skin temp. probe | : 1pc | UP/Down Cabinet | : 1set |
| Fuse | : 2pcs | Weight Scale | : 1set |
| Dust Cover | : 1pc | X-Ray Cassette & Dial Tilting | : 1set |

JW-PU1000

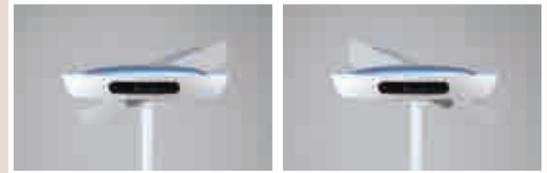
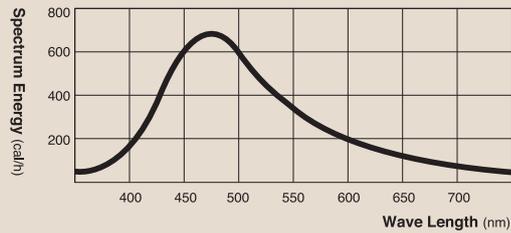
LED Phototherapy Unit



JW-PU1000 incorporates a combinational white & blue LED light source for the treatment of newborn jaundice. Blue LED light deliver intensive phototherapy and white LED light deliver light for examination



2 White LED / 8 Blue LED



Tilting : $\pm 35^\circ$

Specifications

| | |
|------------------------------|---|
| Dimensions(mm) | Housing : 377 × 274 |
| | Base : 403 × 428 |
| Height Adjustment(mm) | 1200-1700 |
| Lamp | 2 White LED, 8 Blue LED |
| Power source | AC 220V, 50/60Hz |
| Power consumption | 45VA |
| Set time | 30 ~ 240minutes (interval of 30minutes) |
| Spectral Irradiance | 60uW/cm ² /nm at 40cm |
| Caster | 65mm rotary wheel x 4EA |
| Housing tilt | $\pm 35^\circ$ |
| Weight | 23Kg |
| Accessory | Eye mask (Large/Small 1 EA) |

CBW-1100

Infant Warmer



Cool comfortable lighting assures less fatigued eyes. Adjustable mobile stand designed for balanced stability & transporting. More effective phototherapy by 4pcs of fluorescent lamp.



X-ray photography procedures have been simplified. Just swivel the canopy through an angle of 90° to either sides.



X-ray cassette tray conveniently placed enables you to take accurate X-ray.



The mattress platform can be tilted 0°-10° with respect to the horizontal plane. So that it gives ample space for instruments, tubing and patient leads.



Computerized control system integrates all necessary controls, indicators, displays and alarms in a single location

The CBW-1100 infant warmer is the system to offer you various patient care opportunities, incorporated computerized control and warming functions which expand capability for infant care management. You can precisely control the neonate's thermal environment to help prevent cold stress. And you can more easily work with your patient in chronic or intensive care situations in the operating room, delivery room or nursery. The built-in microprocessor precisely controls the temperature to help prevent cold stress from patient. The optimal environment for the patient is realized through servo control system which control the temperature between skin temperature and air temperature automatically. Tilting function (0° ~ 10°) allows better access to patient and patient management. Larger bed accommodates larger baby easily. The complete integrated multi-function computerized control panel enables that user can easily find out the trouble situation with his/her naked eyes through advanced alarm functions. The apgar timer gives audible and visual signal every 1 minute. So that user can easily check lapse-time of heating. If there is an error or malfunction, those surely be checked by self-diagnostic function, a series of diagnostic codes simplify troubleshooting and servicing.

Sophisticated computerized control system.

The CBW-1100 infant warmer control system uses an advanced microprocessor to put you in control of patient and system status while providing both manual and servo modes of operation to maintain precision thermoregulation. In addition to enhancing patient safety with a comprehensive alarm system, the micro-processor also reduces service time with a complete system self-check on power up, verification of accurate operation and calibration during use.

Computer-controlled warming

The powerful cal-rod heating element directs controlled radiant heat evenly across the entire bed surface, warming the baby but not the operator. The heater housing which also contains an exam light-swings out of the way 90° to either sides for special procedures, surgeries and X-rays whenever you need complete, unobstructed access to your patient. The apgar timer sounds every 1 min. showing lapse time of heating. All the transparent acryl baby guards but the one closest to the support pole may be pulled down out of the way to provide quick infant access. The mattress platform can be tilted 0°-10° with respect to the horizontal plane. So that it gives ample space for instruments, tubing and patient leads.

Alarm function for safety

The provided alarms are for power fail, sensor fail, High/Low temperature of skin & air and over temperature. When alarm conditions occur, an appropriate indicator lamp will flash and buzzer will sound. Further, if the skin temperature rises 1°C or more above the preset level, power supply to the heater will be automatically cut off to prevent further temperature rise.

Specifications

| | | | | | | |
|------------------------|--|-------------------|--|--|---------------------------|--|
| Power source | 220V/110V, 50/60Hz | Alarm function | Power fail. Sensor fail. Air temp. | System fail. Skin temp. Over temp. | Heater | Ceramic, infrared and radiant heating system Controlled by microprocessor Rotation of head part 90° to either side for X-ray |
| Power consumption | Heater : 650W Control box : 45W Halogen lamp : 20W Photo lamp : 20W × 2ea | Apgar timer | Range of display : 1~99min. Sounds every 1 minute. | | | |
| Skin temperature | Control temperature ranges : 35°C ~ 38°C Resolutions : 0.1°C | Dimension | 500 × 700 × 1,770mm | | Mattress | 680 × 560mm |
| | | Net weight | Approx. 97kg | | Trendelenburg | 0° ~ 10° |
| Air temperature | Control temperature ranges : 20°C ~ 37°C Resolutions : 0.1°C | Phototherapy lamp | 20W × 2ea Equipped with electronic-stabilizer Life span : 2,000Hrs | | X-ray cassette tray sized | 10" × 12" |
| | | Halogen lamp | Halogen lamp (50W × 1ea) : 3,000Lux Life span : 2,000Hrs. | | Caster | 4" × 4ea with brake |
| Display of temperature | Digital LED | | | | Cabinet | Aesthetic design Giving space for storage |

CHS-PU34

Phototherapy Unit



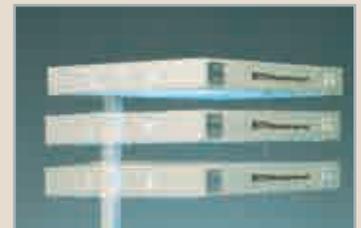
Cool comfortable lighting assures less fatigued eyes. Adjustable mobile stand designed for balanced stability & transporting. More effective phototherapy by 4pcs of fluorescent lamp.



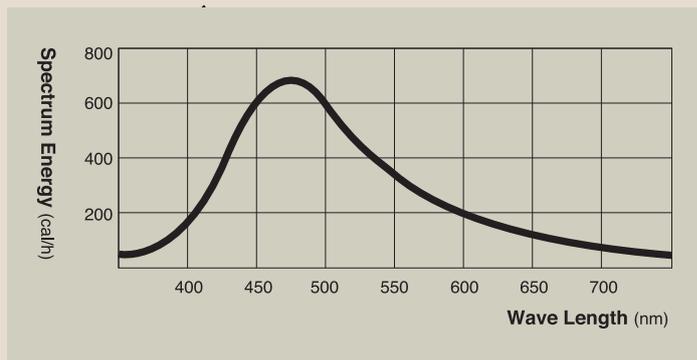
• With Incubator



• Tilting



• Up-down

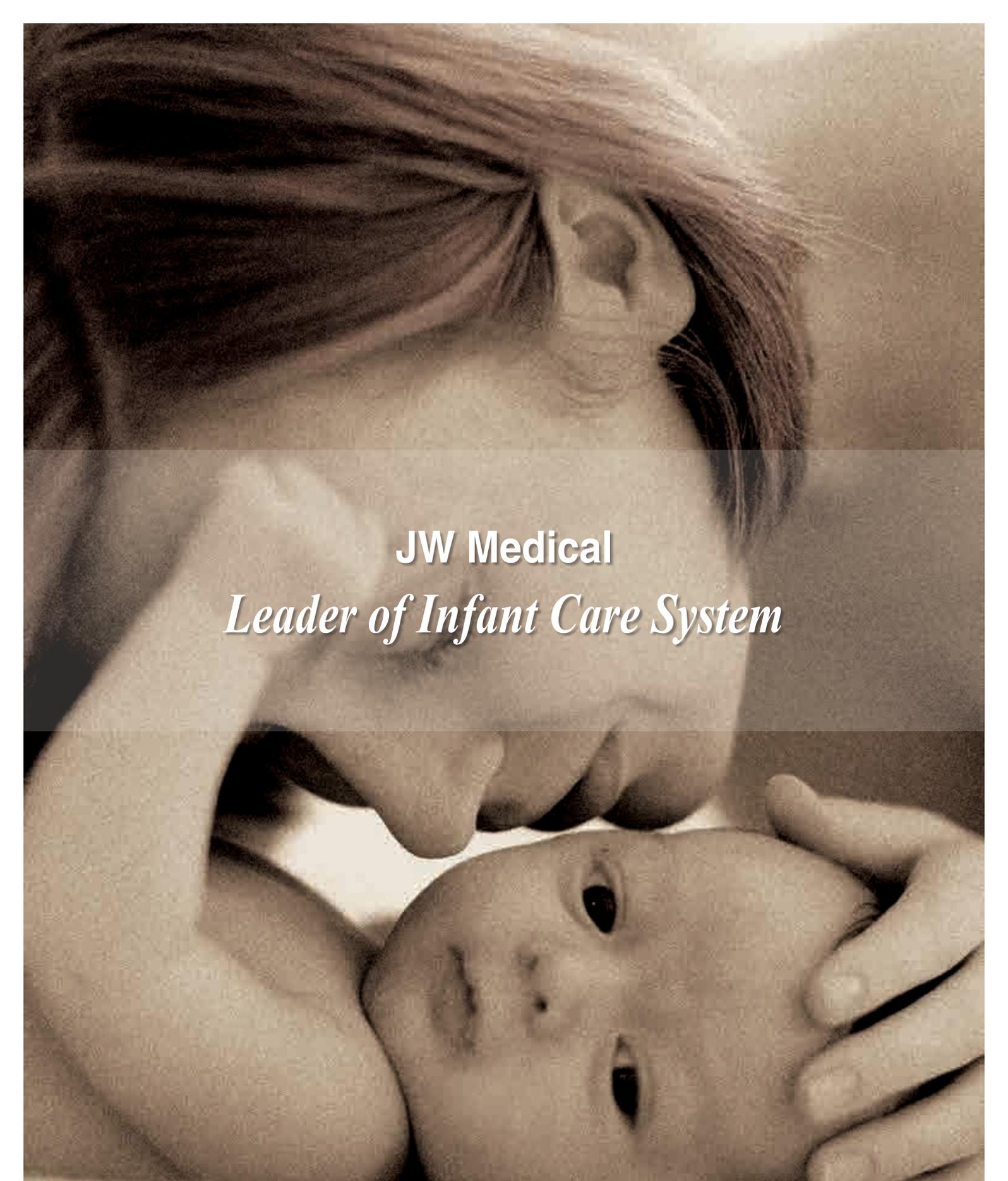


FL. 20BW-NU Lamp x 4ea
 Total Energy : 10,440cal/h
 400-500nm Energy : 5,600 cal/h

Specifications

| | |
|-------------------|--|
| Dimensions | 620mm(W) x 540mm(D) 500mm(W) x 565mm(D) 1,150mm ~ 1,700mm(H) |
| Lamp | Non Ultra-violet ray Lamp 4pcs |
| Power source | AC 220V/110V, 50/60Hz |
| Power consumption | 90W |
| Hour meter | 0 ~ 999Hr |
| Caster | 2"Swivel Caster 4pcs |
| Housing tilt | ± 16° |
| Net weight | 25kg |

Standard Accessory Eye mask : 1pc / Curtain : 1pc



JW Medical
Leader of Infant Care System

***JW* Medical**

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