



Infant Care System

BIONEX

Rua Mario Moraira, 2675-660

Odivelas, Lisboa, Portugal

M: +351-920096274

E: info@bionex.pt

W: www.bionex.pt



Infant Incubator

Model: BX-BIN3000A

Technical data

- Air temp. by computer
- Separate setting temp. and real temp. display windows
- Various and self-check alarms
- Removable humidity trough, easy to clean
- With the transfusion shelf and tray
- RS-232 connector
- Phototherapy (option)

Optional models

Model: BX-BIN3000AS

- Based on BIN3000A has skin temp

Specifications

Electrical requirement	~220V 59Hz or ~230V 60Hz
Power consumption	≤450VA
Air mode temp. range	25.0°C~37.0°C
Air over temp. range	<38.0°C
Air mode high temp.range	37.1°C~39.0°C
Air mode alarm	±3.0°C
Air control accuracy	≤0.5°C
Mattress temp. Uniformity	≤0.8°C
Noise	≤55dB (A)



SPECIFICATIONS

Electrical requirement	~220V 59Hz or ~230V 60Hz
Power consumption	≤450VA
Air mode temp. range	25.0°C~37.0°C
Skin mode temp. range	25.0°C~37.0°C
Air over temp. range	<38.0°C
Air mode high temp.range	37.1°C~39.0°C
Skin mode high temp.range	37.1°C~38.0°C
High temp. Mode alarm	<40.0°C
Air mode alarm	±3.0°C
Skin mode alarm	±1.0°C
Skin sensor accuracy	≤±3.0°C
Air control accuracy	≤0.5°C
Mattress temp. Uniformity	≤0.8°C
Noise	≤55dB (A)

Infant Incubator

Model: BX-BIN3000B

Technical data

- Air temp. and skin temp. servo-controlled by computer
- Various and self-check alarms
- Free step mattress tilting adjustment
- Removable humidity trough, easy to clean
- >37°C temperature setting
- With the transfusion shelf and tray
- Added with guardrail
- RS-232 connector

Optional models

Model: BX-BIN3000BD

- Based on has double walls hood

Model: BX-BIN3000B (Plus)

- Based on has humidity display and control function



Technical data

- Air temp. and skin temp. servo-controlled by computer;
 - Various and self-check alarms
- Free step mattress tilting adjustment;
- Removable humidity trough, easy to clean
 - >37°C temperature setting
- With the transfusion shelf and tray
 - Added with guardrail
 - RS-232 connector
 - With drawer and cabinet
 - Double wall hood
 - Phototherapy unit(option)

Specifications

Electrical requirement	~220V 59Hz or ~230V 60Hz
Power consumption	≤450VA
Air mode temp. range	25.0°C~37.0°C
Skin mode temp. range	25.0°C~37.0°C
Air over temp. range	<38.0°C
Air mode high temp.range	37.1°C~39.0°C
Skin mode high temp.range	37.1°C~38.0°C
High temp. Mode alarm	<40.0°C
Air mode alarm	±3.0°C
Skin mode alarm	±1.0°C
Skin sensor accuracy	≤±3.0°C
Air control accuracy	≤0.5°C
Mattress temp. Uniformity	≤0.8°C
Noise	≤55dB (A)



Infant Incubator

Model: BX-BIN3000B Plus

Technical data

- Air temp.and skin temp.servo-controlled by computer;
- Various and self-check alarms
- Free step mattress tilting adjustment;
- Removable humidity trough,easy to clean
- >37°C temperature setting
- With the transfusion shelf and tray
- Added with guardrail
- RS-232 connector
- With drawer and cabinet
- Has humidity display and control function
- Phototherapy unit(option)

Model: BX-BIN3000B Deluxe

Technical data

- Air temp.and skin temp.servo-controlled by computer;
- Various and self-check alarms
- Free step mattress tilting adjustment;
- Removable humidity trough,easy to clean
- >37°C temperature setting
- With the transfusion shelf and tray
- Added with guardrail
- RS-232 connector
- With drawer and cabinet
- Has humidity display and control function
- Has Oxygen Concentrator(optional)
- LCD Display Screen (optional)
- Weighing function(optional)
- Electrical lift function(optional)
- Double walls hood(optional)



Specifications

Model: BX-BIN3000B Deluxe

Display	LCD	Skin sensor accuracy	≤±3.0°C
Electrical requirement	~220V 50Hz or ~230V 60Hz	Air control accuracy	≤0.5°C
Power consumption	≤550VA	Mattress temp.Uniformity	≤0.8°C
Air mode temp. range	25.0°C~37.0°C	Humidity control range	30%RH-90%RH
Skin mode temp. range	25.0°C~37.0°C	O2 controll range(option)	20%-60%
Air over temp. range	<38.0°C	O2 diplay accuracy(option)	±3%
Air mode hight temp. range	37.1°C~39.0°C	Electrical scale weight range(option)	0.1kg-8.0kg
Skin mode hight temp. range	37.1°C~38.0°C	Electrical scale diplay range(option)	±50g
Hight temp. Mode alarm	<40.0°C	Noise	≤55dB(A)
Air mode alarm	±3.0°C		
Skin mode alarm	±1.0°C		



Infant Incubator

Model: BX-BIN4000A

Technical data

- *7 inch LCD touch screen control panel.
- Air temp.and skin temp.servo-controlled by computer;
- Various and self-check alarms
- Free step mattress tilting adjustment;
- Removable humidity trough,easy to clean
- >37°C temperature setting
- With the transfusion shelf and tray
- Added with guardrail
- RS-232 connector
- With drawer and cabinet
- Has humidity display and control function
- Phototherapy is optional
- Electronic lift is optional

Optional models

Model: BX-BIN4000B

- Based on RC-BIN4000A, with additional O2 concentration control

Model: BX-BIN4000C

- Based on RC-BIN4000B, with scale weighing function

Specifications

Electrical requirement	~220V 50Hz
Heater Power	550VA
Air mode temp.range	25.0°C-37.0°C
Skin mode temp.range	34.0°C-37.0°C
Air mode temp.alarm	<38.0°C
Skin mode temp.alarm	< 40.0°C(Air temp.)
Air mode high temp.range	37.1°C~39.0°C
Skin mode high temp.range	37.1°C~38.0°C
Hight temp. mode alarm	< 40.0°C (Air temp.)
Air mode temp. display range	20.0°C-45.0°C
Skin mode temp. display range	25.0°C-45.0°C
Air mode alarm	±3.0°C
Skin mode alarm	±1.0°C
Skin temp. sensor accuracy	±0.3°C
Temp. control accuracy	≤0.5°C
Mattress temp.uniformity	≤0.8 °C
Humidity control range	30-90%RH
Humidity display range	0-99.9%RH



Infant Incubator

Model: BX-BT100



Technical data

- Fan with low noise and long life-span
- Temperature deviation and over temperature could be amended in front panel directly
- A second thermal cut-out function for more safety
- Six operating windows, two side access operating windows can be swiveled
- Double wall hood and with white LED lighting lamp
- With two oxygen cylinder and oxygen flow meter
- With Trolley

Specifications

Power supply	AC110/220V 60/50Hz
Power input	450VA
Environment temperature	10°C~30°C
Environment relative humidity	30°C~75°C
Environment air velocity of flow	< 1m/s
Air temperature control range	25°C~37°C 37.1°C~38°C
Skin temperature control range	32°C~37°C 37.1°C~38°C
Air/Skin temperature sensor accuracy	±0.3°C
Temperature fluctuation	±1°C
Uniformity of mattress temperature	≤1.5°C
Air temperature deviation alarm	+3°C
Skin temperature deviation alarm	±1°C
Warm-up time	≤40min
Internal noise level	≤60dB(A)
Main battery	DC12V 40AH, Li-ion battery
Charge time	12hours
Battery use time	2hours
Auxiliary battery	DC8.4V 0.17AH, Li-ion battery
Mattress size	63cm(L)*32cm(W)
Trough capacity	1200mL
Air filter	0.5m



Infant Radiant Warmer

Model: BX-BRW3000A

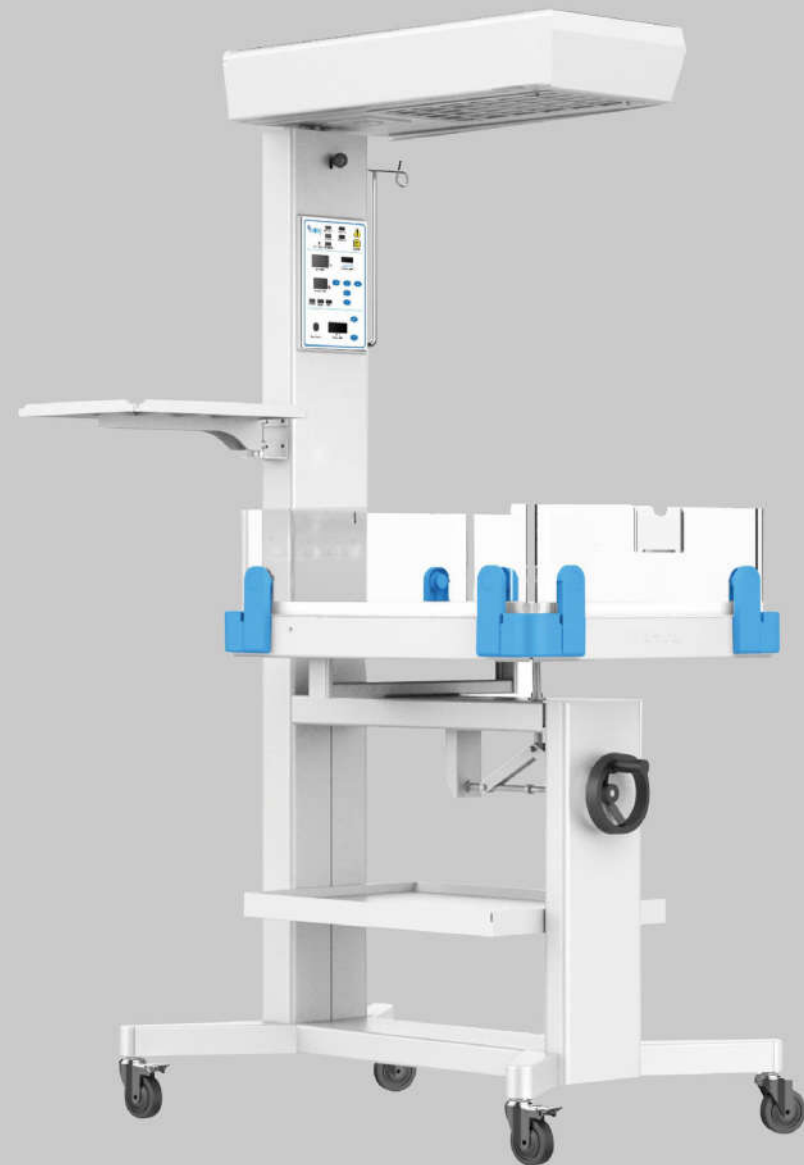
Function

- Skin temp.and manual control by micro-computer
- Separate setting temp.real temp.and timer display windows
- Available adjustment of radiator and mattress tilting
- Four self-check alarms
- APGAR timer
- With one illumination light
- RS-232 connector

Specifications

Model: BX-BRW3000A

Electrical requirement	~ 220V 50Hz or ~ 230V 60Hz
Power consumption	≤770VA
Air mode temp. range	25.0°C-37.0°C
Over temp. alarm	< 38.0°C
High mode temp.range	37.1°C ~ 38.0°C
High mode temp.alarm	< 39.0°C
Temp . display range	20.0°C - 40.0°C
Temp. deviation alarm	±1.0°C
Skin sensor accuracy	≤±0.3°C
Mattress temp. Uniformity	≤2.0°C
Heating rate	≤30min
APGAR timing	1min. 5min. 10min



Infant Radiant Warmer

Model: BX-BRW3000B

Function

- Skin temp.and manual control by micro-computer
- Separate setting temp.real temp.and timer display windows
- Available adjustment of radiator and mattress tilting
- Four self-check alarms
- With one illumination light
- RS-232 connector



Optional models

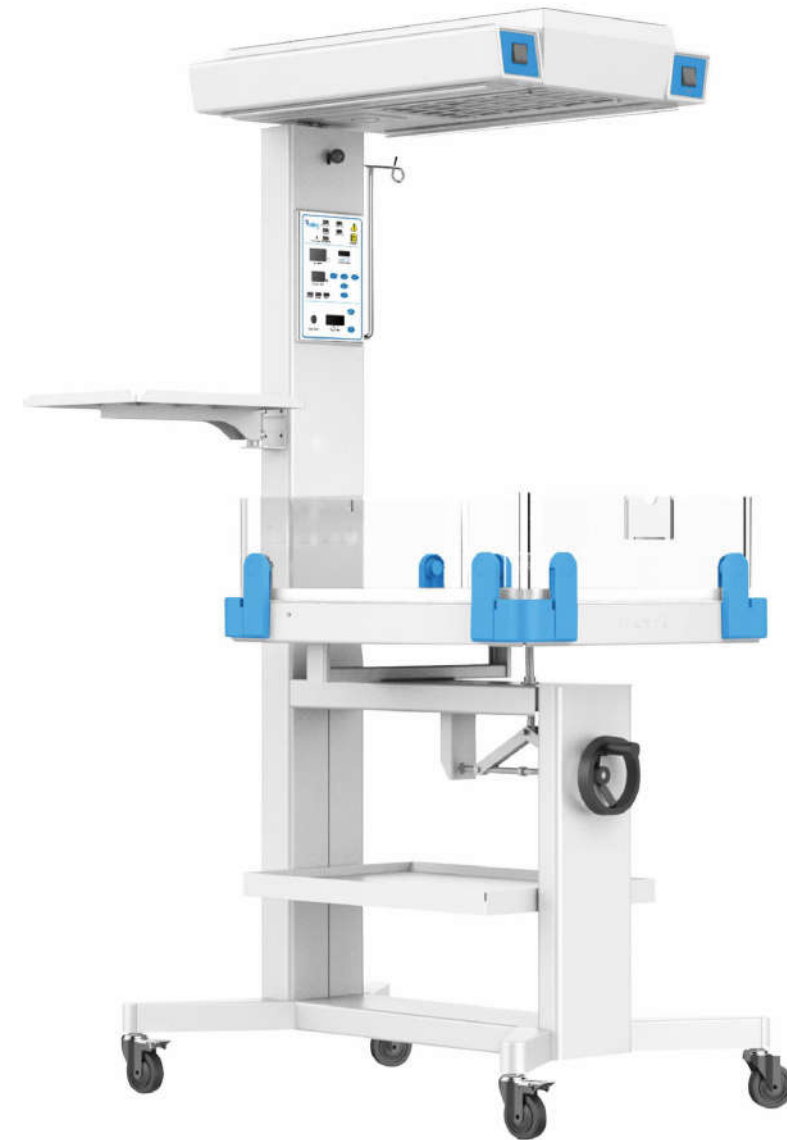
BX-BRW3000B : based on RC-BRW3000A with two sides fluresent phototherapy

BX-BRW3000B (New)
based on RC-BRW3000B with X-ray tray

BX-BRW3000B (Plus)
based on RC-BRW3000B with suction unit and oxygen bottles&flow meter

Specifications **Model: BX-BRW3000B**

Electrical requirement	~ 220V 50Hz or ~ 230V 60Hz
Power consumption	≤770VA
Air mode temp. range	25.0°C~37.0°C
Over temp. alarm	< 38.0°C
High mode temp.range	37.1°C ~ 38.0°C
High mode temp.alarm	< 39.0°C
Temp . display range	20.0°C - 40.0°C
Temp. deviation alarm	±1.0°C
Skin sensor accuracy	≤±0.3°C
Mattress temp. Uniformity	≤2.0°C
Heating rate	≤30min
APGAR timing	1min, 5min, 10min



Infant Radiant Warmer

Model: BX-BRW3000B Plus

Function

- Skin temp.and manual control by micro-computer
- Separate setting temp.real temp.and timer display windows
- Available adjustment of radiator and mattress tilting
- Four self-check alarms
- With one illumination light
- RS-232 connector
- APGAR timer
- With two sides fluorent phototherapy
- With X-ray tray

Optional models

BX-BRW3000B (New)

based on RC-BRW3000B with X-ray tray

BX-BRW3000B (Plus)

based on RC-BRW3000B with suction unit and oxygen bottles&flow meter

Specifications

Model: BX-BRW3000B (New)

Electrical requirement	~ 220V 50Hz or ~ 230V 60Hz
Power consumption	≤770VA
Air mode temp. range	25.0°C~37.0°C
Over temp. alarm	< 38.0°C
High mode temp.range	37.1°C ~ 38.0°C
High mode temp.alarm	< 39.0°C
Temp. deviation alarm	±1.0°C
Skin sensor accuracy	≤±3.0°C
Mattress temp. Uniformity	≤2.0°C
Heating rate	≤30min
APGAR timing	1min. 5min. 10min



Infant Radiant Warmer

Model: BX-BRW3000B Plus

Function

- Skin temp.and manual control by micro-computer
- Separate setting temp.real temp.and timer display windows
- Available adjustment of radiator and mattress tilting
- Four self-check alarms
- With one illumination light
- RS-232 connector

Optional models

BX-BRW3000B: based on RC-BRW3000A with two sides fluresnt phototherapy

BX-BRW3000B (New)

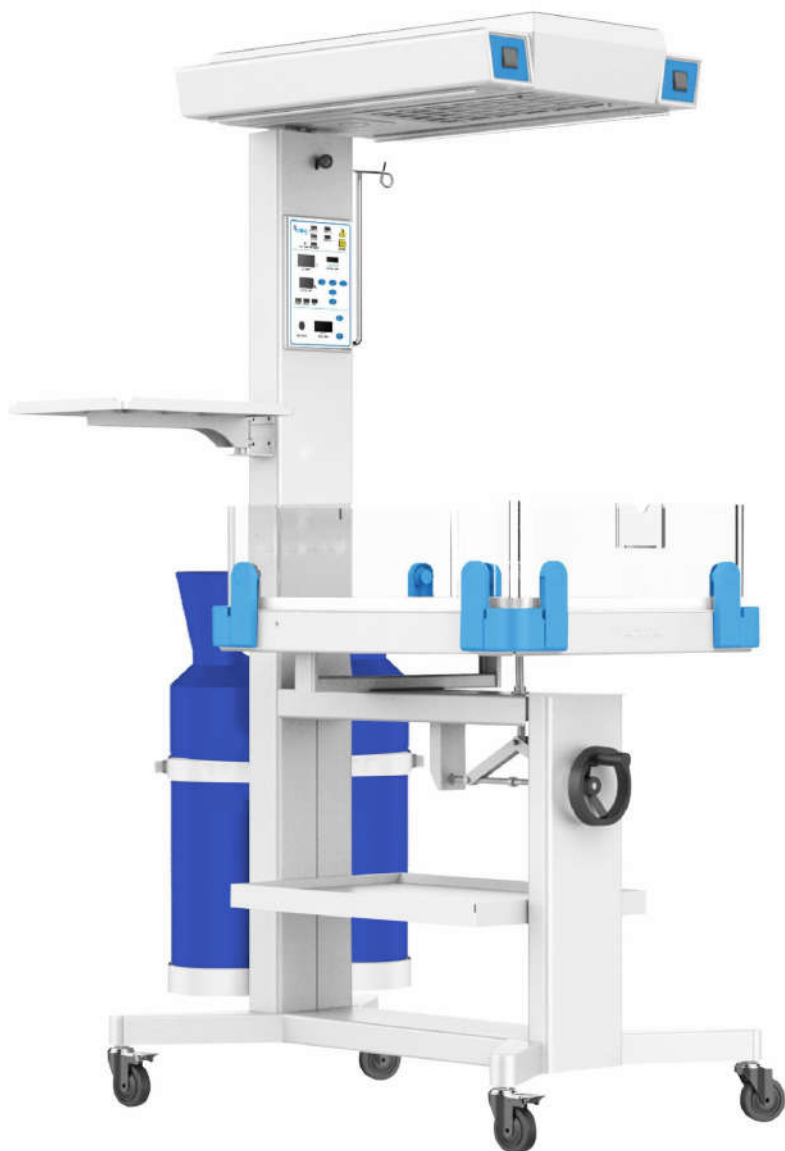
based on RC-BRW3000B with X-ray tray

BX-BRW3000B (Plus)

based on RC-BRW3000B with suction unit and oxygen bottles&flow meter

Specifications **Model: BX-BRW3000B (Plus)**

Electrical requirement	~ 220V 50Hz or ~ 230V 60Hz
Power consumption	≤770VA
Air mode temp. range	25.0°C~37.0°C
Over temp. alarm	<38.0°C
High mode temp.range	37.1°C ~ 38.0°C
High mode temp.alarm	<39.0°C
Temp. deviation alarm	±1.0°C
Skin sensor accuracy	≤±3.0°C
Mattress temp. Uniformity	≤2.0°C
Heating rate	≤30min
APGAR timing	1min, 5min, 10min



Infant Radiant Warmer

Model: BX-BRW4000A

Function

- Skin temp.and manual control by micro-computer
- Separate setting temp.real temp.and timer display windows
- Available adjustment of radiator and mattress tilting
- Four self-check alarms
- With one illumination light
- RS-232 connector
- With X-ray cassette
- LED phototherapy is optional
- Electronic lift is optional

Optional models

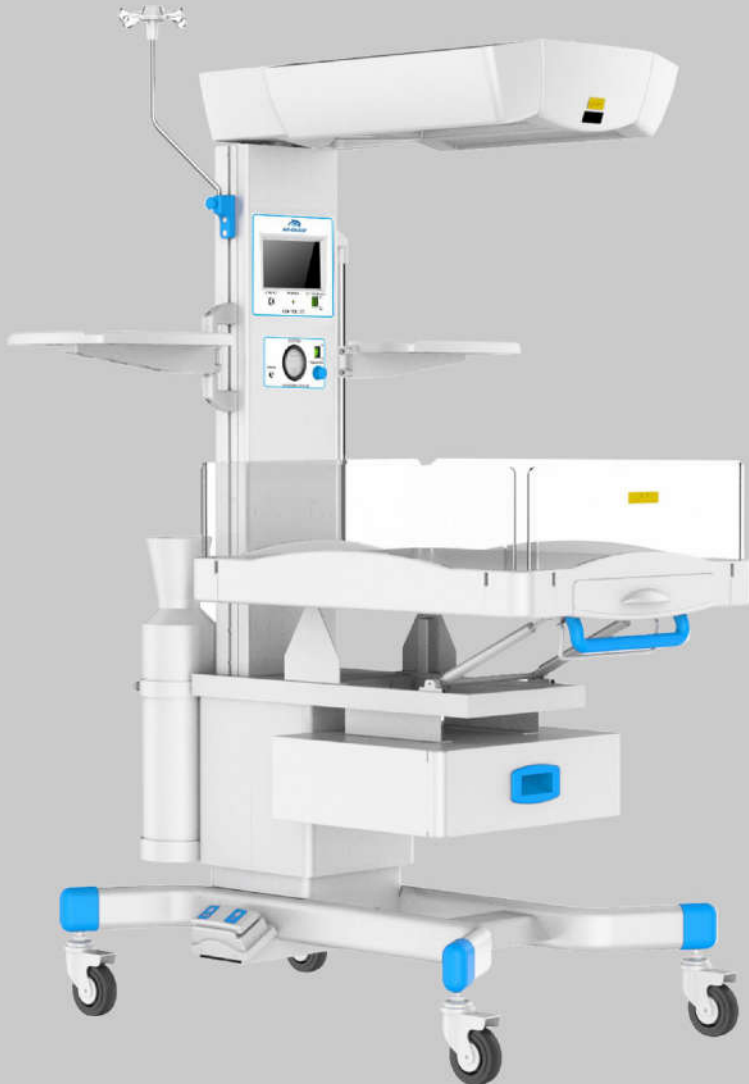
BX-BRW4000B

Based on above features has Sunction and Oxygen bottle(6.3LX2)and Oxygen flow meter

Specifications

Model No: RC-BRW4000A Model No: RC-BRW4000B

Electrical requirement	~ 220V 50Hz or ~ 230V 60Hz
Power consumption	≤700VA
Air mode temp. range	25.0°C~37.0°C
Over temp. alarm	< 38.0°C
High mode temp.range	37.1°C ~ 38.0°C
High mode temp.alarm	< 39.0°C
Temp . deviation alarm	±1.0°C
Skin sensor accuracy	≤±0.3°C
Mattress temp. Uniformity	≤2.0°C
Heating rate	≤30min
APGAR timing	1min, 5min, 10min



Infant Phototherapy Unit

Model: BX-BL500D

Function

- Small size, light and high irradiation
- LED Blue light as the radiant source is irradiating uniformly and efficient
- Circle 360 double sides for more effective radiation
- Two phototherapy mode: up side phototherapy and down side phototherapy, can be use separately
- The electronic ballast makes the power supply adaptable and the power factor high
- Therapy time of phototherapy units from up and down side are displayed separately
- Automatically record each therapy time and total used therapy time
- Air temperature and skin temperature separately displayed
- Power off memory, sincere key for alarm, key-locking and self-examination function
- Four alarm functions for safety: Power failure, probe failure, over temperature, fan failure
- It is convenient to know the therapy of the infant through observation ports on both sides
- Adopt air spring structure and the hood is easy to open and close
- The aluminum-magnesium alloy is applied on the base, with two drawers and tray

Specifications

Power supply	AC220V±10%, 50Hz±2%
Power input	≤400VA
Blue light wavelength	420nm~490nm
Circle 360 light radiation	3700μW/cm ²
Up side light radiation	3300μW/cm ²
Down side light radiation	2400μW/cm ²
Life span of blue light tube	≥20000 hours
Air temperature display range	0~45.0°C
Skin temperature display range	0~45.0°C
Time accuracy	1min/2h
Count-up time range	0~99.9 hours
Count-down time range	1min~99.9 hours
Total cumulative time	0~999999 hours
Mattress size	613×300mm
Ambient temperature	+18°C ~ +30°C
Relative humidity	30%~75%
Atmospheric pressure	700hpa~1060hpa



Infant Phototherapy Unit

Model: BX-B100(LED)



Technical data

- Use blue tube or LED as light source
- LED Digital Timer, display therapy time & total time
- Lifting & Mobile Stand, radiant head rotating by angle of 30° / 60° / 90°

Specifications

Input power:	<150VA
Light source:	Blue tube/ LED tube(360pcs LED blubs)
Light source effective life:	2,000 /50,000 hours
Wavelength:	400-550nm
Irradiance treatment distance:	10 ~ 500px
Effective area:	1125px×600px
Bilirubin total irradiance maximum (Ebi max):	≥2000μW/cm2
Ebi in effective area surface:	≥500μW/cm2
Ebi average in effective area surface:	≥400μW/cm2
Uniformity of Ebi:	>0.4
Infrared radiation in effective area:	≤10mW/cm2(760nm<λ≤1400nm)
Ultraviolet radiation in effective area:	≤1.0×10-5mW/cm2 (180nm<λ≤400nm)
Time display accuracy:	2h±1min
Operate noise:	≤55dB(A) (ambient noise is lower than 40dB(A))
Basic performance:	The equipment total irradiance (Ebi) ≥500μW/cm2
Time display range:	9999h 59min
Adjust angle:	30°、60°、90°
Adjust height:	1100mm ~ 1500mm

Model: BX-BBP2000B(LED)



Technical data

- LCD display indicates the accumulative running time and the current time
- With white LED lights for easy examination
- Easy move with wheels
- Programmable system controller to set different lighting intensity for different time

Specifications

Bilirubin Radiancy (40cm)	3750μw/cm ² (62.5μw/cm ² /nm)
Bilirubin Radiancy (50cm)ap	3200μw/cm ² (53μw/cm ² /nm)
Lighting Intensity	33%,67%,100%
White Light	Yes
Power	≤60VA
Wave Length	400nm~550nm
Radiant Space	400×250mm
Radiant Uniformity	>0.4
Therapy Time Set	0~99h59m
Height Range	1350mm~1650mm

Transcutaneous jaundice meter

Model: BX-JD01



Main Applications:

It is used for early screening of neonatal jaundice in neonatal pediatrics, child care departments and other departments of hospitals at all levels.

Technical specifications:

- a. Measurement method: light reflection type;
- b. Light source: LED;
- c. Display screen: liquid-crystal display;
- d. Indication value tolerance: $0-25 \text{ mg/dl} \pm 1.0 \text{ mg/dl}$;
- e. Power supply: lithium battery DC3 7V, $\geq 1500\text{mah}$, it could be used for more than 800 times after one full charge;
- f. Calibration tool: Indication value shows 0 in the white end and shows 16.0 ± 1.0 in the yellow end.

Main functions:

- a. Display simultaneously both measuring units -- $\mu \text{ mol/L}$ 、 mg/dL .
- b. Data storage function: it has the function of storing 200 measured values.
- c. Calculate average value: it could calculate the average value of first five tests.
- d. Start up and use without preparation time.
- e. Battery voltage detection: when the battery voltage of the meter is too low, the screen displays "low battery".
- f. Automatic shutdown function: when not in the charging state, the meter stops operation and automatically shuts down after 10 minutes.
- g. Battery power display: when the upper right corner of the screen displays $\square, \square, \square, \square, \square$, they respectively indicate that the remaining power is about 100%, 75%, 50%, 25% and 0%.
- h. Charging display function: when the instrument is charged, the display screen will be on and shows "charging..." .
- i. Automatic charging protection function: when the battery of meter is charged to $4.2\text{V} \pm 0.05\text{v}$, the charging will be stopped automatically (the charging current is less than or equal to 20mA).

Main accessories list

Main Machine
 Calibration tool
 Charger
 Charging cable
 Manual
 Certificate

quantity / unit

1 piece
 1 piece
 1 piece
 1 piece
 1 piece
 1 piece