



HBNBB Series

Neonate Bilirubin Phototherapy Equipment



HBNBB-I



HBNBB-II

Brief Introduction:

- ❑ Mattress cover configuration;
- ❑ LCD display indicates the accumulative running time and the current working time;
- ❑ Light switch;
- ❑ Two modes of current working time: count up and count down.

Standard Configuration:

- ❑ The bed (including the radiant light system, timer and light switch), bracket and mattress cover

Specification:

- ❑ Power requirement: AC220V-230V/50Hz, 75VA(HBNBB-I)
AC220V-230V/50Hz, 40VA(HBNBB-II)
- ❑ Light resource: LED blue light(HBNBB-I)
Fluorescent lamp(HBNBB-II)
- ❑ Lifetime of LED: 20000hrs
- ❑ Lifetime of the Fluorescent lamp: 2000hrs
- ❑ The total irradiance for bilirubin on the effective surface area:
 - ≥ 3.0mW/cm² (HBNBB-I)
 - ≥ 2.8mW/cm² (HBNBB-II)
- ❑ Average value general bilirubin radiation of on the effective surface area:
 - ≥ 2.6mW/cm² (HBNBB-I)
 - ≥ 2.0mW/cm² (HBNBB-II)
- ❑ Uniformity of the total irradiance for bilirubin: > 0.4
- ❑ Dominant wavelength of blue light: 400-550nm
- ❑ Max. load of mattress: 10kg
- ❑ Indication range of accumulative running time for lamp: 0~99999.9hrs
- ❑ Indication range of current running time for lamp: 0~999.9 hrs,
- ❑ Mode of time: count up and count down
- ❑ Working noise: ≤ 50dB(A)

Environmental temperature:

- ❑ Operating range: 20 °C ~30°C
- ❑ Ambient air movement rate: ≤ 0.3m/s

Product Packaging:

- ❑ Package: each unit is packed into one carton
- ❑ Dimension: 710mm x 410mm x 210mm
- ❑ Gross Weight: 7Kg

Specifications are changed without notice for performance improvement. Printed date: May 2015 Version No.: 1

HBNBB-III

Neonate Bilirubin
Phototherapy Equipment



HBNBB-III

Neonate Bilirubin
Phototherapy
Equipment



Brief Introduction:

- Intensive phototherapy equipment, large effective treatment area, meets AAP Guidelines for intensive phototherapy;
- Blue LED phototherapy radiation;
- Bed temperature mode servo controlled by micro-computer;
- Baby temperature monitoring, LCD color display, touch-key operation;
- Self-checking and multiple failure alarm;
- Timer for the phototherapy time;
- Reflection cover on the top to reduce the irradiation light leaked to enhance the therapeutic effect.

Standard Configuration:

- Bed, mattress, control box, support bracket and reflection cover.

Specification:

- Power supply: AC220V-230V/50Hz or AC110-120V/50-60Hz, 75VA
- Temperature control mode: bed temperature control mode
- Bed temperature control range: 36°C -38°C
- Skin temperature display range: 5°C -65°C
- Accuracy of bed temperature control: $\leq \pm 1.0^{\circ}\text{C}$
- Accuracy of bed temperature display: $\leq \pm 0.7^{\circ}\text{C}$
- Bed temperature variability: $\leq \pm 0.5^{\circ}\text{C}$
- Heating up time: 2 hours (the mattress temperature rise from 23°C to 37°C)
- Accuracy of skin temperature sensor: $\leq \pm 0.2^{\circ}\text{C}$
- Mattress temperature uniformity: $\leq \pm 2.5^{\circ}\text{C}$
- Working noise of bed surface: $\leq 55\text{dB(A)}$
- Failure alarm: over-temperature alarm, sensor alarm, temperature deviation alarm, motor fan failed alarm
- General bilirubin radiation of the effective surface area:

LED	Average value of general bilirubin radiation mW/cm^2	General radiation mW/cm^2	Maximum value of general bilirubin radiation mW/cm^2
ALL ON	≥ 2.3	≥ 2.8	≥ 4.0

- Uniformity of the total irradiance for bilirubin: ≥ 0.4
- Dominant wavelength of blue light: 450-470nm
- Light effective surface: 54cm×26cm
- Life time of LED: 20000hrs

Operating request:

- Temperature range: 20°C ~30°C
- Relative humidity: 30%~75%RH
- Atmospheric pressure : 700hPa ~ 1060hPa

Product packaging:

- Package: each unit is packed as one carton
- Dimension: L1110mm×W620mm×H990mm
- Gross Weight: 37kg

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HBNBB-IV

Neonate Bilirubin
Phototherapy Equipment



HBNBB-IV

Neonate Bilirubin
Phototherapy
Equipment

Brief Introduction:

- Intensive phototherapy equipment, large effective treatment area, meets AAP Guidelines for intensive phototherapy;
- Double side LED phototherapy radiation;
- Bed temperature mode servo controlled by micro-computer;
- Baby temperature detection, LCD color display;
- Self-checking and multiple failure alarm;
- Timer for the phototherapy time;
- Height of upper light box is adjustable;
- Environment temperature detection.

Standard Configuration:

- Upper light box (including operation screen), bed, mattress, guard, storage box and mobile stand.

Specification:

- Power supply: AC220V-230V/50Hz or AC110-120V/50-60Hz, 150VA
- Temperature control mode: bed temperature control mode
- Bed temperature control range: 35°C -38°C
- Skin temperature display range: 5°C -65°C
- Accuracy of bed temperature control: $\leq \pm 1.0^{\circ}\text{C}$
- Accuracy of bed temperature display: $\leq \pm 0.7^{\circ}\text{C}$
- Bed temperature variability: $\leq \pm 0.5^{\circ}\text{C}$
- Heating up time: 2 hours (the mattress temperature rise from 23°C to 37°C)
- Accuracy of skin temperature sensor: $\leq \pm 0.2^{\circ}\text{C}$
- Mattress temperature uniformity: $\leq \pm 2.5^{\circ}\text{C}$
- Working noise of bed surface: $\leq 55\text{dB(A)}$
- Failure alarm: over-temperature alarm, sensor alarm, temperature deviation alarm, motor fan failed alarm
- General bilirubin radiation of the effective surface area:

Upper phototherapy:

Irradiation distance cm	LED	Average value of general bilirubin radiation mW/cm ²	General radiation mW/cm ²	Maximum value of general bilirubin radiation mW/cm ²
28	ALL ON	≥ 3.1	≥ 3.5	≥ 4.5
38	ALL ON	≥ 2.6	≥ 3.0	≥ 4.2
48	ALL ON	≥ 2.2	≥ 2.8	≥ 3.9

Nether phototherapy:

LED	Average value of general bilirubin radiation mW/cm ²	General radiation mW/cm ²	Maximum value of general bilirubin radiation mW/cm ²
ALL ON	≥ 2.3	≥ 2.8	≥ 4.0

- Uniformity of the total irradiance for bilirubin: ≥ 0.4
- Dominant wavelength of blue light: 450-470nm
- Light effective surface: 54cm×26cm
- Life time of LED: 20000hrs

Operating request:

- Temperature range: 20°C ~30°C
- Relative humidity: 30%~75%RH
- Atmospheric pressure : 700hPa ~ 1060hPa

Package:

- Package: each unit is packed as one carton
- Dimension: L880mm×W850mm×H1450mm
- Gross Weight: 70Kg

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HBXHZ

Neonate Bilirubin
Phototherapy Equipment

Endless love keeps the new life safe



HBXHZ

Neonate Bilirubin
Phototherapy
Equipment

Brief Introduction:

- ❑ Baby mode control by micro-computer;
- ❑ Failure alarm indication;
- ❑ Blue light radiation for upper and nether cases. Blue fluorescent lamp as upper case light source, LED blue light as nether case light source.
- ❑ Timer for phototherapy caring time;
- ❑ Bassinet can be pulled out from the side door;
- ❑ DC motor.

Standard Configuration:

- ❑ Above case (including above lamp, controller and infant bed); Nether case (including nether lamp and cabinet); Skin temperature sensor; I.V. Pole.

Optional Configuration:

- ❑ LED blue light as upper case light source;
- ❑ Disposable skin temperature sensor is optional.

Specification:

- ❑ Power requirement: AC220V-230V/50Hz or AC110-120V/50-60Hz, 600VA
- ❑ Mode of control: Air mode control by micro-computer
- ❑ Temperature control range: 25-34°C
- ❑ Skin temperature sensor display range: 5°C -65°C
- ❑ Correlation of displayed average value and actual average value (steady temperature condition) : $\leq 0.8^{\circ}\text{C}$
- ❑ Accuracy of skin temperature sensor: $\pm 0.3^{\circ}\text{C}$
- ❑ Temperature uniformity of the bed: $\leq 2.0^{\circ}\text{C}$
- ❑ Noise level above the bed: $\leq 55\text{dB(A)}$
- ❑ Failure alarm: over-temperature alarm; deviation alarm, sensor failure alarm, fan failure alarm and check alarm.
- ❑ The total irradiance for bilirubin on the effective surface area:
Above case: $\geq 1.5\text{mw/cm}^2$ (blue fluorescent lamp)
 $\geq 2.0\text{mw/cm}^2$ (LED blue light)
Nether case: $\geq 3.0\text{mw/cm}^2$
- ❑ Average value of general bilirubin radiation on the effective surface area:
Above case: $\geq 1.4\text{mw/cm}^2$ (blue fluorescent lamp)
 $\geq 1.5\text{mw/cm}^2$ (LED blue light)
Nether case: $\geq 2.5\text{mw/cm}^2$
- ❑ Uniformity of the total irradiance for bilirubin: >0.4
- ❑ Dominant wavelength of blue light: 400nm-550nm

Environmental temperature:

- ❑ Operating range: 18 °C ~28°C
- ❑ Ambient air movement rate: $<0.3\text{m/s}$

Product Packaging:

- ❑ Package: each unit is packed into two cartons
- ❑ Dimension (Main body): 1000mm x 700mm x 805mm
(Cabinet): 900mm x 600mm x 885mm
- ❑ Gross Weight (Main body): 70Kg
(Cabinet): 50Kg



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HBXHZ-90 Series

Neonate Bilirubin
Phototherapy Equipment

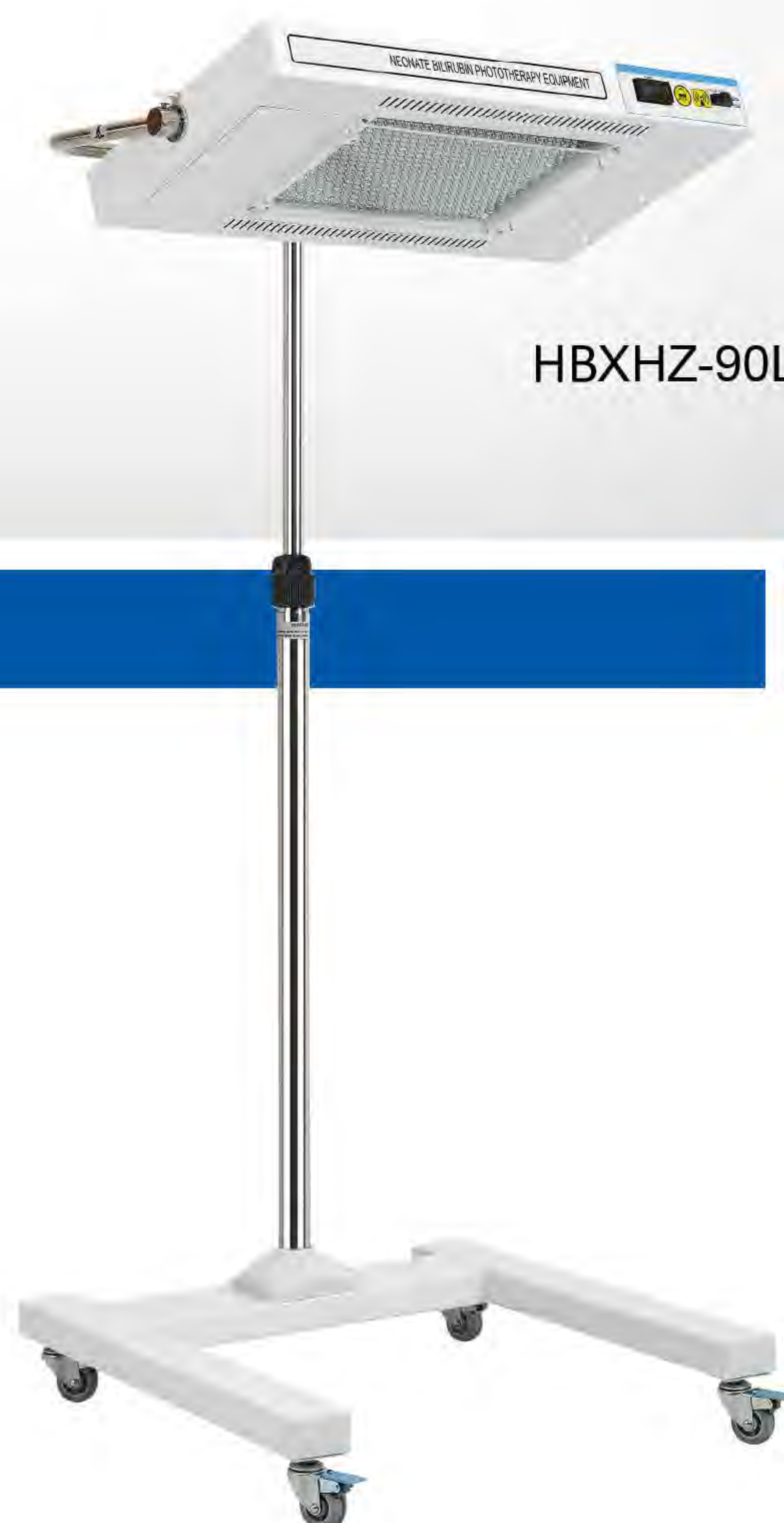


HBXHZ-90 Series

Neonate Bilirubin
Phototherapy Equipment



HBXHZ-90



HBXHZ-90L

Brief Introduction:

- ❑ Mobile and fixed models (fixed model is special mounted our company's infant incubator);
- ❑ Two radiate resources : Blue fluorescent lamp or blue LED;
- ❑ Timer to count phototherapy time;
- ❑ Angle of lamp module can be adjusted (for mobile model);
- ❑ Height of lamp module can be adjusted (for mobile model);
- ❑ Wheels can be locked (for mobile model).

Standard Configuration:

- ❑ Mobile model: The lamp module (including radiant light resource, protective panel and timer), lock knob, and mobile stand (including height adjustment rod, lamp column and stand) and wheels.
- ❑ Fixed model: The lamp module (including radiant light resource, protective panel and timer) and lamp column.

Specification:

- ❑ Power requirement: AC220V-230V/50Hz or AC110-120V/50-60Hz, 150VA (HBXHZ-90)
AC220V-230V/50Hz or AC110-120V/50-60Hz, 75VA (HBXHZ-90L)
- ❑ Light source: blue fluorescent lamp (HBXHZ-90)
LED (HBXHZ-90L)
- ❑ Peak spectrum of radiant light resource: 436nm (HBXHZ-90)
465nm (HBXHZ-90L)
- ❑ The total spectral irradiance on the effective surface area:
 - ≥ 1mW/cm² (for mobile HBXHZ-90)
 - ≥ 0.6mW/cm² (for fixed HBXHZ-90)
 - ≥ 3.7mW/cm² (for mobile HBXHZ-90L)
 - ≥ 1.7mW/cm² (for fixed HBXHZ-90L)
- ❑ Average value general bilirubin radiation on the effective surface area:
 - ≥ 0.9mW/cm² (for mobile HBXHZ-90)
 - ≥ 0.64mW/cm² (for fixed HBXHZ-90)
 - ≥ 2.5mW/cm² (for mobile HBXHZ-90L)
 - ≥ 1.3mW/cm² (for fixed HBXHZ-90L)
- ❑ Uniformity of the total irradiance for bilirubin: > 0.4
- ❑ Dominant wavelength of blue light: 450-470nm
- ❑ Lifetime of LED: 20000hrs
- ❑ Lifetime of blue fluorescent lamps: 2000hrs
- ❑ Adjust range for the radiation angle of lamp module: 0-60° up from horizontal (Only for Mobile model)
- ❑ Adjusting range for the height of lamp module: 1350mm~1650mm (Only for Mobile model)
- ❑ Built-in timer range: 0~9999 hrs 59min

Product Packaging:

- ❑ Package: each unit is packed into one carton
- ❑ Dimension: 955mm x 655mm x 205mm
- ❑ Gross Weight: 23Kg

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HBXHZ-90P

Neonate Bilirubin
Phototherapy Equipment



HBXHZ-90P

Neonate Bilirubin
Phototherapy Equipment

Brief Introduction:

- ❑ Blue LED as major light source and mixed with yellow LED to soften the irradiating light;
- ❑ Intensive phototherapy equipment, large effective treatment area, meets AAP Guidelines for intensive phototherapy;
- ❑ The irradiation intensity can be adjusted into high or low levels;
- ❑ Angle of lamp module can be adjusted;
- ❑ Radiant light equipped with fan cooling which ensure a low thermal radiation;
- ❑ Optional for infant incubator and infant radiant warmer;
- ❑ Vertical height and horizontal position of lamp module can be adjusted;
- ❑ With the timer and lockable wheels.

Standard Configuration:

- ❑ Lamp module and mobile stand

Specification:

- ❑ Power supply: AC220V-230V/50Hz or AC110-120V/50-60Hz, 75VA
- ❑ Light source: Blue and yellow LED
- ❑ Dominant wavelength range of blue light: 450-470nm
- ❑ Dominant wavelength range of yellow light: 585-595nm
- ❑ Effective surface area: 50cm×25cm
- ❑ Life time of LED: 20000hrs
- ❑ General bilirubin radiation of the effective surface area (Irradiation distance 30 cm):
High irradiance mode: $\geq 3.6 \text{ mW/cm}^2$;
Low irradiance mode: $\geq 2 \text{ mW/cm}^2$;
- ❑ Uniformity of the total irradiance for bilirubin: > 0.4
- ❑ Adjusting range for the height of lamp module: 1350mm~1680mm
- ❑ Adjust range for the radiation angle of lamp module: 0-60° up from horizontal and can be locked
- ❑ Built-in timer range: 0~99999.9 hrs
- ❑ Working noise: $\leq 50\text{dB}$ (A)

Operating request:

- ❑ Temperature range: 15°C ~35°C
- ❑ Relative humidity: 30%~75%RH
- ❑ Atmospheric pressure : 700hPa ~ 1060hPa

Product Packaging:

- ❑ Package: each unit is packed as one carton
- ❑ Size:1375 mm×685 mm×260 mm
- ❑ Gross Weight: 14.5 Kg

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HBYG Series

Neonate Bilirubin
Phototherapy Equipment



HBYG Series

Neonate Bilirubin
Phototherapy
Equipment



HBYG-I



HBYG-II

Brief Introduction:

- ❑ Can be fixed on the top of incubator by the bottom sucker;
- ❑ Used for neonate hyperbilirubinemia treatment;
- ❑ With three blue fluorescent lamps (HBYG-I);
- ❑ With LED blue light (HBYG-II).

Specification:

- ❑ Power requirement: AC220V-230V/50Hz or AC110-120V/50-60Hz, 100VA (HBYG-I)
AC220V-230V/50Hz or AC110-120V/50-60Hz, 50VA (HBYG-II)
- ❑ The total irradiance for bilirubin on the effective surface area:
 $\geq 0.55\text{mW/cm}^2$ (HBYG-I)
 $\geq 1.0\text{mW/cm}^2$ (HBYG-II)
- ❑ Average value general bilirubin radiation of on the effective surface area:
 $\geq 0.45\text{mW/cm}^2$ (HBYG-I)
 $\geq 0.8\text{mW/cm}^2$ (HBYG-II)
- ❑ Uniformity of the total irradiance for bilirubin: >0.4
- ❑ Dominant wavelength of blue light: 400-550nm

Product Packaging:

- ❑ Package: each unit is packed into one carton
- ❑ Dimension: 646mm×285mm×270mm
- ❑ Gross Weight: 5Kg

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HBYG-III

Neonate Bilirubin
Phototherapy Equipment



HBYG-III

Neonate Bilirubin
Phototherapy
Equipment



Brief Introduction:

- ❑ The equipment can be put on the top of infant incubator hood by the bottom sucker and also can be fixed on the infant radiant warmer by the fixed block;
- ❑ Timer to count phototherapy time;
- ❑ The angle and the distance of the irradiation can be adjusted with the fixed block;
- ❑ The light source is blue LED.

Standard Configuration:

- ❑ The lamp module, bracket and power adaptor.

Specification:

- ❑ Power requirement: AC100-240V/50-60Hz, 35VA
- ❑ Light source: LED
- ❑ Dominant wavelength of blue light: 450-470nm
- ❑ Effective surface area: 45cm×25cm
- ❑ General bilirubin radiation of the effective surface area:
≥ 2.7 mW/cm² (Irradiation distance 35cm)
- ❑ Uniformity of the total irradiance for bilirubin: > 0.4
- ❑ Lifetime of light source: 20000hrs
- ❑ Built-in timer range: 0~9999 hrs 59min

Operating request:

- ❑ Temperature range: 18°C ~30°C
- ❑ Relative humidity: 30%~75%RH
- ❑ Atmospheric pressure : 700hPa ~ 1060hPa

Product Packaging:

- ❑ Package: each unit is packed as one carton
- ❑ Size: L520mm x W300mm x H250mm
- ❑ Gross Weight: 5Kg

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