



Incorporates optimal blue LED technology for the treatment of newborn jaundice



neoBLUE system positioned over an incubator

Meets AAP guidelines for intensive phototherapy¹

Intensity: Features 2 intensity settings to switch between standard ($15 \mu\text{W}/\text{cm}^2/\text{nm}$) and intensive ($35 \mu\text{W}/\text{cm}^2/\text{nm}$) phototherapy

Spectrum: Utilizes blue light-emitting diodes (LEDs)

- To emit blue light in the 450 - 475 nm spectrum matching the peak absorption wavelength (458 nm) at which bilirubin is broken down²

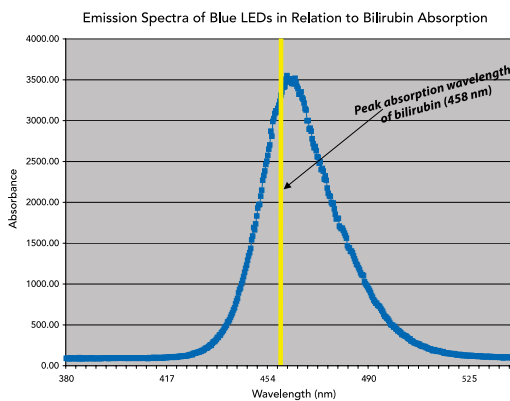
Surface area coverage: Exposes length of baby from head to toe

neoBLUE is designed for:

- Efficacy and precision
- Convenience
- Flexibility with multiple configurations available

Optimal efficiency

- neoBLUE LEDs reduce costly and time-consuming bulb replacements by providing thousands of hours of use
- Life testing has shown neoBLUE LEDs can emit high-intensity phototherapy for over 50,000 hours³
- Biomedical engineers can adjust the output of the neoBLUE LEDs using a potentiometer
- Device timer assists in tracking overall usage of neoBLUE LED panel
- neoBLUE LED panel is field serviceable – no downtime associated with patient care



neoBLUE LEDs emit blue light in the 450 - 475 nm spectrum. This range corresponds to the peak absorption wavelength (458 nm) at which bilirubin is broken down.



neoBLUE system shown with drape accessory

References

- 1 Subcommittee on Hyperbilirubinemia. American Academy of Pediatrics clinical practice guideline: Management of hyperbilirubinemia in the newborn infant 35 or more weeks of gestation. Pediatrics. 2004; 114(1):297-316.
- 2 Vreman HJ, et al. Light-emitting diodes: a novel light source for phototherapy. Pediatric Research. 1998; 44(5):804-809.
- 3 Actual results may vary based on environmental factors and adjustments to the potentiometer.

Healthcare solutions with one thing in mind. You.

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Ordering Information

| Item | Part # |
|---|--------|
| neoBLUE LED Phototherapy System (includes light and roll stand) | |
| 115V, US power supply | 010066 |
| 230V, EU power supply | 010068 |
| 230V, UK power supply | 010069 |
| 230V, AU power supply | 010070 |
| (includes light only) | |
| 115V, US power supply | 001376 |
| 230V, EU power supply | 001378 |
| 230V, UK power supply | 001379 |
| 230V, AU power supply | 001380 |
| Roll stand (available separately) | 010814 |
| Drape for neoBLUE light | 001241 |

Technical Specifications

| Light Source | Blue and Yellow LEDs |
|---|--|
| Wavelength | – Blue: Peak between 450 - 475 nm – Yellow: Peak between 585 - 595 nm |
| Intensity | Peak central intensity at 12 in (30.5 cm) |
| Low setting | 15 ±2 µW/cm ² /nm |
| High setting | 35 ±3.5 µW/cm ² /nm |
| Variation in intensity over 6 hrs | < 10% (within illumination area) |
| Effective surface area | 20 x 10 in (50 x 25 cm) |
| Intensity ratio | > 0.4 (minimum to maximum) |
| Heat output (at 12 in (30.5 cm) over 6 hrs) | < 18°F (10°C) warmer than ambient |

| Electrical Mains | 3A @ 100 - 240V~, 50 - 60 Hz |
|------------------|------------------------------|
|------------------|------------------------------|

| Fuses | 4A @ 100 - 120V~, 50 - 60 Hz 2A @ 200 - 240V~, 50 - 60 Hz |
|-------|--|
|-------|--|

| Safety | |
|-----------------|----------|
| Leakage current | < 100 µA |
| Audible noise | < 60 dB |

| Dimensions | |
|----------------|--|
| Maximum height | < 6 ft (1.83 m) |
| Weight | < 10 lb (4.5 kg) (light enclosure only) < 40 lb (18 kg) (with roll stand) |

| Environmental | |
|--------------------------------|---|
| Operating temperature/humidity | 59° - 95°F (15° - 35°C)/10% - 90% non-condensing |
| Storage temperature/humidity | 32° - 122°F (0° - 50°C)/10% - 90% non-condensing |

| Roll Stand | |
|------------------------------|---|
| Height of lens from ground | Adjustable from 42 - 59 ± 3 in (1.07 m - 1.50 m ± 7.6 cm) |
| Center of lens from post | Adjustable from less than 9 - 13 ± 1 in (23 cm - 33 cm ± 2.5 cm) |
| Tilt adjustment of enclosure | 0° (horizontal) - approx. 40° |
| Clearance of base from floor | < 4 in (10.2 cm) |
| Base | Five legs with locking casters |

| Regulatory Standards | |
|----------------------|--------------------------|
| | IEC 60601-1 |
| | ES 60601-1 |
| | CAN/CSA-22.2 No. 60601-1 |
| | IEC 60601-2-50 |
| | IEC 60601-1-2 |

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