The **neoBLUE** LED Phototherapy System incorporates optimal blue LED technology for the treatment of newborn jaundice.

Meets AAP Guidelines for intensive phototherapy¹

**Intensity:** Delivers intensive phototherapy: > 30 μW/cm²/nm.

**Spectrum:** Utilizes blue light emitting diodes (LEDs)
- neoBLUE LEDs emit blue light in the 450-470 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.

**Safe**
- neoBLUE LEDs do not emit light in the ultraviolet (UV) range - reducing the potential risk of skin damage
- neoBLUE LEDs do not emit light in the infrared radiation (IR) range - reducing the potential risk of fluid loss

**Designed for efficacy and precision**
- With a simple flip of a switch, change from single (> 12 μW/cm²/nm) to double (> 30 μW/cm²/nm) phototherapy
- Unique red target light enables precise centering of light over baby

**Designed for convenience**
- Light enclosure is compact in size and lightweight
- Smooth, curved edges of light enclosure provide added safety and ease in handling
- Roll stand includes a gas shock mechanism, which maintains a safe height during pole adjustments

**Designed for multiple configurations**
- Can be easily adjusted both horizontally and vertically, and tilted over a wide angle range
- Rubber feet supplied with light enclosure – allowing stable placement directly onto incubators
- Base of roll stand is designed to easily slide under most incubators and cribs
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 20,000 hours*
- 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 450-470 nm spectrum. This range corresponds to the peak absorption wavelength (458 nm) at which bilirubin is broken down.

Technical specifications

- **Light source**
  - Blue and Yellow LEDs
  - Blue: Peak between 450 and 470 nm
  - Yellow: Peak between 585 and 595 nm
  - Peak central intensity at 12 in (30.5 cm)

- **Variation in intensity over 6 hrs**
  - Low setting
  - High setting
  - > 12 μW/cm²/nm
  - > 30 μW/cm²/nm

- **Effective surface area**
  - 20 x 10 (50 x 25 cm)

- **Intensity ratio**
  - > 0.4 (minimum to maximum)

- **Heat output (at 12 inches (30.5 cm) over 6 hrs)**
  - < 18° F (10° C) warmer than ambient

- **Electrical mains**
  - 85–264V~, 47 to 63 Hz
  - 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
  - < 8.0 lbs (3.6 kg) (light enclosure only)
  - < 40 lbs (18 kg) (with roll stand)

- **Environmental**
  - Operating Temperature/Humidity
  - 59° F to 95° F (15 to 35° C) / 0% to 90% non condensing
  - Storage Temperature/Humidity
  - -22° F to 122° F (-30 to 50° C) / 0% to 90% non condensing

- **Roll stand**
  - Height of diffuser from ground
  - Adjustable from 42 to 59 ± 3 inches
  (1.07 m to 1.50 m ± 7.6 cm)
  - Center of diffuser from post
  - Adjustable from less than 9 to 13 ± 1 inches
  (22.9 cm to 33 cm ± 2.5 cm)
  - Tilt adjustment of enclosure
  - 0° (horizontal) to approx. 40°
  - Clearance of base from floor
  - < 4 inches (10.2 cm)
  - Base
  - 5 legs with casters (2 locking casters)

- **Regulatory standards**
  - Type BF
  - IEC 60601-1
  - IEC 60601-1-2
  - IEC 60601-1-2-50
  - CSA C22.2 601.1

**Note**: Specifications are subject to change without notice.

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*Actual results may vary based on environmental factors and adjustments to the potentiometer.