

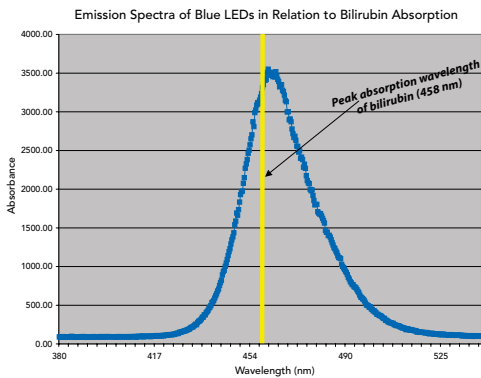


- Meets AAP Guidelines
- Delivers head-to-toe treatment
- Usable in multiple configurations

The **neoBLUE cozy** LED Phototherapy System provides all the benefits of blue LED technology in a unique, cradling design.



The **neoBLUE cozy** system is positioned underneath the baby to deliver phototherapy via a blue LED light source.



Most effective degradation of bilirubin¹

The neoBLUE cozy system meets AAP Guidelines for intensive phototherapy²

- **Intensity:** Delivers intensive phototherapy: > 30 $\mu\text{W}/\text{cm}^2/\text{nm}$
- **Spectrum:** Utilizes blue light emitting diode (LED) technology
 - neoBLUE LEDs emit blue light in the 450-475 nm spectrum – matching the peak absorption wavelength (458 nm) at which bilirubin is broken down¹
- **Surface area coverage:** Exposes full length of baby from head-to-toe
 - Delivers phototherapy over a larger surface area than standard phototherapy blankets, pads or beds

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
- Device automatically shuts off in the event of elevated surface temperature
 - Flashing indicator light alerts staff to check for blocked air vents or an increase in ambient temperature



Indicator light

Designed for comfort and support

- Streamlined, oval design conforms to the shape of the baby
- Special neoPAD™ mattress provides comfortable cushioning underneath the infant
 - Disposable mattress covers ensure clean, soft surface for baby
- Blanket can be placed over the baby for added warmth and comfort

Optimal efficiency and ease of use

- 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 40,000 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
- Illustration on neoBLUE LED panel guides users on the proper placement of the baby
- Accommodates babies up to 22" (55.9 cm) in length



The **neoBLUE cozy** system facilitates use in multiple configurations and patient care settings.

Ideal for use in the nursery or mother's room

- Portable and lightweight design allows transport to different locations
- Fits easily within existing patient enclosures, such as cribs, bassinets and radiant warmers



A blanket may be placed over the baby for added warmth during phototherapy.



neoBLUE cozy system in a bassinet



neoBLUE cozy system on a radiant warmer

The neoBLUE cozy system can be used in conjunction with an overhead neoBLUE light for additional phototherapy coverage.



Ordering information

Item	Part number
neoBLUE cozy LED Phototherapy Light, 110V	010121
neoPAD mattress (box of 2)	040874
Disposable mattress cover (box of 50)	030760
Biliband® Eye Protectors (available separately)	
Regular size	900642
Premature size	900643
Micro size	900644



neoBLUE cozy system

Technical specifications

Light source	Blue LEDs
Wavelength	Blue: Peak between 450 and 475 nm
Intensity	Peak intensity at patient surface > 30 $\mu\text{W}/\text{cm}^2/\text{nm}$
Variation in intensity over 6 hrs	$\pm 10\%$ (within illumination area)
Effective treatment area	Approximately 8.5 in (21.6 cm) x 17.5 in (44.5 cm), > 95 in ² (613 cm ²)
Patient area	10.7 in (27.18 cm) x 22 in (55.85 cm)
Intensity ratio	> 0.4 (minimum to maximum)
Heat output	104° F (40° C) maximum surface temperature

Electrical specifications

Input	
Voltage	100-240 V~
Current	2.0 A maximum @ 100-240 V~
Frequency	50-60 Hz
Power supply output	(Use only with Natus power supply)
Voltage	12 V ===
Power	65 W maximum
Current	5.4 A maximum @ 12 V ===

Safety

Main enclosure leakage current	< 100 μA
Earth leakage current	< 250 μA
Audible noise	< 60 dB

Dimensions

Width x Length x Height (enclosure)	12 in (30.5 cm) x 25.5 in (64.8 cm) x 4.0 in (10.2 cm)
Weight (enclosure + power supply)	< 11.0 lbs (5.0 kg)

Environmental

Operating temperature/humidity	68° to 86° F (20° to 30° C) / 10% to 90% non condensing
Storage temperature/humidity	-22° to 122° F (-30° to 50° C) / 10% to 90% non condensing

Regulatory standards

FDA classification	Class II/21CFR 880.5700
Electrical safety	IEC 60601-1; CSA C22.2 601-1
Type BF	
MDD classification	Ila, (Annex IX, Rule 9, active therapeutic device)
EMC [Class B]	EN 60601-1-2
Labeling	EN 1041:1998, EN 980:2003
Risk analysis	ISO 14971:2000; A1:2003
Device specific safety	IEC 60601-2-50
Biocompatibility	EN ISO10993-1:2003; EN ISO10993-5:1999; EN ISO10993-10:2002

Note: Specifications are subject to change without notice.

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1 Vreman HJ, et al. Light-emitting diodes: a novel light source for phototherapy. *Pediatric Research*. 1998; 44(5):804-809

2 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.

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

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