

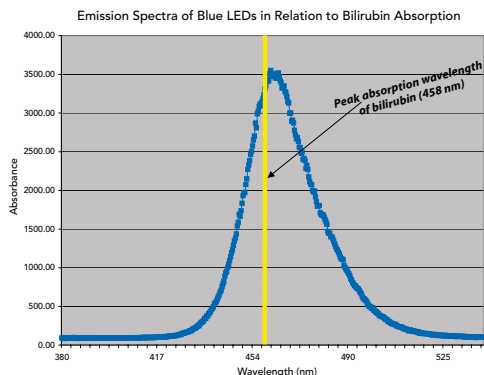


- Meets AAP Guidelines
- Delivers head-to-toe treatment
- Usable in multiple configurations

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 bilirubin<sup>1</sup>

The neoBLUE cozy system meets AAP Guidelines for intensive phototherapy<sup>2</sup>

- **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 down<sup>1</sup>
- **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

<b>Light source</b>	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 <sup>2</sup> (613 cm <sup>2</sup> )
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

<b>Input</b>	
Voltage	100-240 V~
Current	2.0 A maximum @ 100-240 V~
Frequency	50-60 Hz
<b>Power supply output</b>	(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 $\mu\text{A}$
Earth leakage current	< 250 $\mu\text{A}$
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	IIa, (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.

**Natus...Where Babies Come First.™**

Visit our **NERVE Center®** education portal at [nervecenter.natus.com](http://nervecenter.natus.com)

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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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