

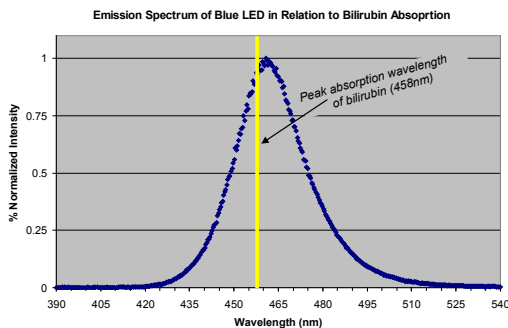


The **neoBLUE blanket** LED Phototherapy System provides intensive phototherapy in a soft and flexible design

- Meets AAP guidelines
- Promotes infant/patient bonding
- Allows swaddling baby during treatment



The **neoBLUE blanket** LED Phototherapy System is positioned underneath the baby to deliver phototherapy via a blue LED light source.



Most effective degradation of bilirubin¹

The neoBLUE blanket LED Phototherapy 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
 - The neoBLUE LED emits blue light in the 450-475 nm spectrum – matching the peak absorption wavelength (458 nm) at which bilirubin is broken down¹
- **Surface area coverage:** Large blanket delivers phototherapy over greater surface area than other fiberoptic devices

Safe

- The neoBLUE LED does not emit significant light in the ultraviolet (UV) range – reducing the potential risk of skin damage
- The neoBLUE LED does not emit significant light in the infrared radiation (IR) range – reducing the potential risk of fluid loss
- Device automatically shuts off in the event of elevated temperature
 - Flashing indicator light alerts user to check for blocked air vents

Designed for comfort and support

- Streamlined, oval design conforms to the shape of the baby
 - Large and small size available
- Mattress provides comfortable cushioning underneath the infant
 - Disposable mattress covers ensure clean, soft surface for baby
- A baby blanket or neoBLUE blanket Swaddle can be used in conjunction with the neoBLUE blanket system for added warmth and comfort
- Baby can be held or nursed without interrupting phototherapy, encouraging parent-infant bonding

Optimal efficiency and ease of use

- The neoBLUE LED reduces costly and time-consuming bulb replacements by providing approximately 20,000 hours of use at high intensity*
- Device timer assists in tracking overall usage of LED light
- Light box automatically recognizes which blanket size is being used
 - Large and small sizes deliver consistent phototherapy levels



neoBLUE blanket system is available with optional hardware for pole-mounting applications

The **neoBLUE blanket** LED Phototherapy System facilitates use in multiple configurations and patient care settings.

Ideal for use in the NICU, well-baby nursery, or mother's room

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



Allows infant-parent bonding



The baby may be swaddled or covered with a blanket for warmth during phototherapy

The neoBLUE blanket system can be used in conjunction with an overhead neoBLUE light for additional phototherapy coverage²



neoBLUE blanket system in a bassinet



neoBLUE blanket system in an incubator

Ordering information

Item	Part number	Item	Part number
neoBLUE blanket LED Phototherapy System with large blanket	006244	Disposable covers, small (Qty 50)	006897
neoBLUE blanket LED Phototherapy System with small blanket	006895	neoBLUE blanket Swaddle** - Newborn (fits large pad)	008424
neoBLUE blanket, large pad kit	006245	neoBLUE blanket Swaddle** - Premie (fits small pad)	008425
neoBLUE blanket, small pad kit	006898	Pole-mounting hardware	006914
Mattress, large (Qty 2)	007281	Carrying case	007293
Mattress, small (Qty 2)	007283	Biliband® Eye Protectors	
		Regular size	900642
		Premature size	900643
		Micro size	900644
Disposable covers, large (Qty 50)	005989		



Mattress covers



neoBLUE blanket Swaddle**

Technical specifications

Light source	Blue LED (single)
Wavelength	Blue: Peak between 450 and 475 nm
Intensity	Peak intensity at patient surface > 30 $\mu\text{W}/\text{cm}^2/\text{nm}$ (factory set to 30-35 $\mu\text{W}/\text{cm}^2/\text{nm}$; adjustable to approximately 50 $\mu\text{W}/\text{cm}^2/\text{nm}$)
Variation in intensity over 6 hrs	< 10% (within effective treatment area)
Light emitting area (large blanket)	Approximately 9.5 in (24.1 cm) x 14.5 in (36.8 cm), 114 in ² (734 cm ²)
Light emitting area (small blanket)	Approximately 6.75 in (17.1 cm) x 12.75 in (32.4 cm), 75.7 in ² (488 cm ²)
Effective treatment area (large blanket)	> 77.5 in ² (500 cm ²)
Effective treatment area (small blanket)	> 38.75 in ² (250 cm ²)
Intensity ratio	> 0.4 (minimum to maximum)
Heat output	104° F (40° C) maximum surface temperature

Electrical specifications

Input	
Voltage	100–240 V~
Current	1.6 A
Frequency	50–60 Hz
Power supply output	(Use only with Natus power supply)
Voltage	12 V ===
Power	72 W maximum
Current	6.0 A

Safety

Main enclosure leakage current	< 100 μA
Earth leakage current	< 250 μA
Audible noise	\leq 35 dB

Dimensions

Width x Length x Height (light box)	4.75 in (12.1 cm) x 9.25 in (23.5 cm) x 5.5 in (14 cm)
Weight (light box)	3 lbs (1.36 kg)

Environmental

Operating temperature/humidity	Light box: 41° to 86° F (5° to 30° C) / 10% to 90% non condensing; Blanket: 41° to 100° F (5° to 38° C) / 10% to 90% non-condensing
Storage temperature/humidity	32° to 122° F (0° to 50° C) / 10% to 90% non condensing
Altitude/atmospheric pressure	700 hPa to 1060 hPa (approx. -1,000 to +10,000 feet)

Regulatory standards

IEC 60601-1
 ES 60601-1
 IEC 60601-1-2
 IEC 60601-2-50
 IEC 60601-1-11
 CSA C22.2 No. 60601-1

- Streamlined, oval design conforms to the shape of the baby
- Ultra quiet operation

Note: Specifications are subject to change without notice.

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

**HALO® SleepSack™ Swaddle customized for use with the neoBLUE blanket fiberoptic pad.

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.

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