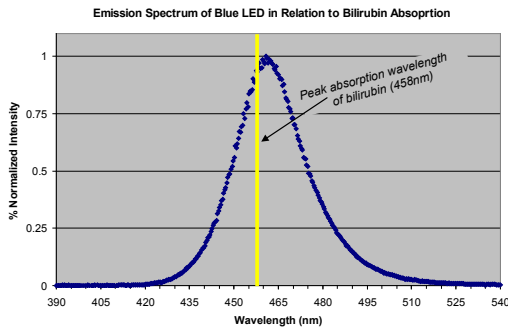


The **neoBLUE blanket** LED Phototherapy System provides intensive phototherapy in a soft and flexible design.

- 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 light in the ultraviolet (UV) range – reducing the potential risk of skin damage
- The neoBLUE LED does 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 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
- Blanket rolls or bumpers can be used as desired for added positioning and cushioning around the 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 coverage



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	007923
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

Wavelength	Blue LED (single)
Intensity	Blue: Peak between 450 and 475 nm
Variation in intensity over 6 hrs	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 > 50 $\mu\text{W}/\text{cm}^2/\text{nm}$)
Light emitting area (large blanket)	< 10% (within illumination area)
Light emitting area (small blanket)	Approximately 7.25 in (18.4 cm) x 12.75 in (32.4 cm), 84 in ² (542 cm ²)
Effective treatment area (large blanket)	Approximately 4.5 in (11.4 cm) x 10 in (25.4 cm), 40 in ² (259 cm ²)
Effective treatment area (small blanket)	Approximately 78.8 in ² (508 cm ²)
Intensity ratio	Approximately 47.7 in ² (308 cm ²)
Heat output	> 0.4 (minimum to maximum)
	104° F (40° C) maximum surface temperature

Electrical specifications

Input	
Voltage	100–240 V~
Current	1.5 A
Frequency	50–60 Hz
Power supply output	
Voltage	(Use only with Natus power supply) 12 V ===
Power	100W maximum
Current	8.3A

Safety

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

Dimensions

Width x Length x Height (light box)	4.5 in (11.4 cm) x 9 in (22.9 cm) x 5.5 in (14 cm)
Weight (light box)	3.3 lbs (1.5 kg)

Environmental

Operating temperature/humidity	41° to 86° F (5° to 30° C) / 10% to 90% non condensing
Storage Temperature/humidity	-22° to 122° F (-30° to 50° C) / 10% to 90% non condensing
Altitude / atmospheric pressure	-1000 feet to +1000 feet (700 hPa to 1060 hPa)

Regulatory standards

FDA classification	Class II/21CFR 880.5700
MDD classification	IIa, (Annex IX, Rule 9, active therapeutic device)
Electrical safety	UL 60601-1:2006, CSA C22.2 601-1-M90:2005, IEC 60601-1:1988; A1:1991; A2:1995, IEC 60601-1:2005, ES 60601-1:2012, CSA C22.2 601-1-08:2001
EMC [Class B]	IEC 60601-1-2:2007
Device specific safety	IEC 60601-2-50:2000, IEC 60601-2-50:2010
Biocompatibility	ISO 10993-1:2003; ISO 10993-5:1999; ISO 10993-10:200

Note: Specifications are subject to change without notice.

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

natus®

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

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