

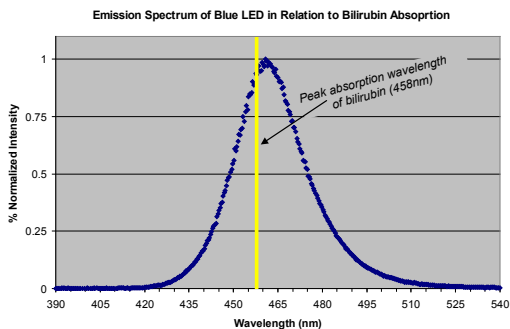


The **neoBLUE blanket** LED Phototherapy System provides intensive phototherapy in a soft and flexible design

- 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.



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

## Most effective degradation of bilirubin<sup>1</sup>

The neoBLUE blanket LED Phototherapy 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
  - The neoBLUE LED emits 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:** 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

# 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		Mattress, large (Qty 2)	007281
US power supply	006244	Mattress, small (Qty 2)	007283
EU power supply	007299	Disposable covers, large (Qty 50)	005989
UK power supply	007296	Disposable covers, small (Qty 50)	006897
AU power supply	007301		
neoBLUE blanket LED Phototherapy System with small blanket		neoBLUE blanket Swaddle** - Newborn (fits large pad)	008424
US power supply	006895	neoBLUE blanket Swaddle** - Preemie (fits small pad)	008425
EU power supply	007300	Pole-mounting hardware	006914
UK power supply	007298	Carrying case	007293
AU power supply	007302		
neoBLUE blanket, large pad kit	006245	<b>Biliband® Eye Protectors</b>	
neoBLUE blanket, small pad kit	006898	Regular size	900642
		Premature size	900643
		Micro size	900644



Mattress covers



neoBLUE blanket Swaddle\*\*

## Technical specifications

<b>Light source</b>	Blue LED (single)
Wavelength	Blue: Peak between 450 and 475 nm
Intensity	Peak intensity at patient surface > 30 μW/cm <sup>2</sup> /nm (factory set to 30-35 μW/cm <sup>2</sup> /nm; adjustable to approximately 50 μW/cm <sup>2</sup> /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 <sup>2</sup> (734 cm <sup>2</sup> )
Light emitting area (small blanket)	Approximately 6.75 in (17.1 cm) x 12.75 in (32.4 cm), 75.7 in <sup>2</sup> (488 cm <sup>2</sup> )
Effective treatment area (large blanket)	Approximately 102 in <sup>2</sup> (657 cm <sup>2</sup> )
Effective treatment area (small blanket)	Approximately 39.9 in <sup>2</sup> (257 cm <sup>2</sup> )
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	1.6 A
Frequency	50–60 Hz
<b>Power supply output</b>	(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	≤ 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

FDA classification	Class II
MDD classification	Ila
Electrical safety	IEC 60601-1, ES60601-1, CAN/CSA C22.2 No. 60601-1
EMC [Class B]	IEC 60601-1-2
Device specific safety	IEC 60601-2-50
Home Healthcare	IEC 60601-1-11
Usability	IEC 60601-1-6, IEC 62366
Biocompatibility	ISO 10993

- 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.

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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.