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Nufer Medical - let's find the best solutions

neoBLUE® blanket

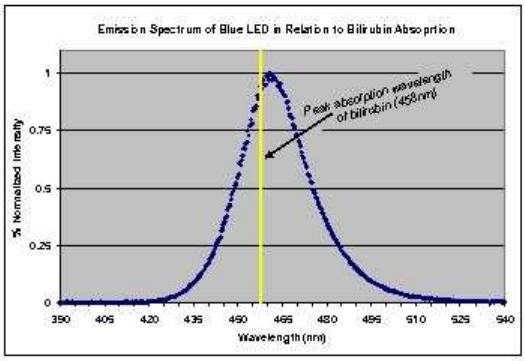
LED Phototherapy

The neoBLUE® blanket LED Phototherapy System

provides intensive phototherapy in a soft & flexible design

- Meets AAP Guidelines
- Promotes Infant-Parent 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 & fiberoptic blanket



neoBLUE blanket available with optional hardware for pole-mounting applications

Most Effective Degradation Of Bilirubin[1]

The neoBLUE blanket LED Phototherapy System meets AAP Guidelines for intensive, efficacious phototherapy[2]

- **Intensity:**
  Delivers intensive phototherapy: > 30 µW/cm²/nm
- **Spectrum:**
  Utilizes blue light emitting diode (LED) technology
  > The LED emits blue light in the 450 – 475 nm spectrum — matching the peak absorption wavelength (458 nm) at which bilirubin is broken down[1]
- **Surface Area Coverage:**
  Delivers phototherapy over a larger effective treatment 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 light box overheating
  > Flashing indicator light alerts user to check for blocked air vents

Designed For Comfort & Support

- Streamlined, oval design conforms to the shape of the baby
  > Large and small blanket sizes 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 & cushioning around the baby
- A blanket can be used in conjunction with the neoBLUE blanket for added warmth & comfort
- Baby can be held or nursed without interrupting phototherapy, encouraging infant-parent bonding

Optimal Efficiency & Ease of Use

- LED technology 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

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

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

Ideal For Use In The NICU, Well-Baby Nursery, Mother's Room, Or Even At Home

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

Allows infant-parent bonding in the hospital or at home

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

The neoBLUE blanket can be used alone or with an overhead neoBLUE light for additional phototherapy coverage

neoBLUE blanket in a bassinet

neoBLUE blanket in an incubator

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

Ordering Information

Item	Part Number
neoBLUE® blanket LED Phototherapy System with:	
Large blanket (US power supply)	006244
Small blanket (US power supply)	006895
Large blanket (EU power supply)	007299
Small blanket (EU power supply)	007300
Large blanket (UK power supply)	007296
Small blanket (UK power supply)	007298
Large blanket (AUS power supply)	007301
Small blanket (AUS power supply)	007302
neoBLUE blanket, Large Pad Kit	006245
neoBLUE blanket, Small Pad Kit	006898
Mattress, Large (Qty 2)	007281
Mattress, Small (Qty 2)	007283
Disposable Covers, Large (Qty 50)	005989
Disposable Covers, Small (Qty 50)	006897
Pole-Mounting Hardware	006914
Carrying Case	007293
Biliband® Eye Protectors	
Regular Size	900642
Premature Size	900643
Micro Size	900644

Mattress & Disposable Covers

Technical Specifications

Light Source	Blue LED (single)
Wavelength	Blue: Peak between 450 and 475 nm
Intensity	Peak intensity at patient surface > 30 µW/cm²/nm (factory set to 30-35 µW/cm²/nm; adjustable to > 50 µW/cm²/nm)
Variation in intensity over 6 hrs	< 10% (within illumination area)
Light emitting area (large blanket)	9.5 in (24.1 cm) x 14.5 in (36.8 cm), 127 in² (819 cm²)
Light emitting area (small blanket)	6.75 in (17.1 cm) x 12.75 in (32.4 cm), 84 in² (542 cm²)
Effective treatment area (large blanket)	78.1 in² (504 cm²)
Effective treatment area (small blanket)	45.9 in² (296 cm²)
Intensity ratio	> 0.4 (minimum to maximum)
Heat output (light box only)	104° F (40° C) maximum surface temperature
Electrical specifications	
Input	
Voltage	100–240 VAC
Current	1.5 A
Frequency	50–60 Hz
Power Supply Output	(Use only with Natus Power Supply)
Voltage	12 V ⎓
Power	100W maximum
Current	8.3A
Safety	
Main enclosure leakage current	< 100 µA
Earth leakage current	< 250 µA
Audible Noise	< 40 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	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
MDD Classification	IIa, (Annex IX, Rule 9, active therapeutic device)
Electrical Safety	UL60601-1:2006, CSA C22.2 601-1-M90:2005, IEC 60601-1:1988; A1:1991; A2:1995
EMC [Class B]	IEC 60601-1-2:2007
Device specific safety	IEC60601-2-50:2000
Biocompatibility	ISO10993-1:2003; ISO10993-5:1999; ISO10993-10:2002

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