



neoBLUE™
LED Phototherapy

Shedding New Light on Phototherapy

NATUS NEOBLUE™ LED PHOTOTHERAPY IS AN INNOVATIVE PHOTOTHERAPY LIGHT, INCORPORATING A STATE-OF-THE-ART BLUE LED LIGHT SOURCE FOR THE TREATMENT OF NEWBORN JAUNDICE.

Most Effective Degradation of Bilirubin¹

Utilizing blue light emitting diodes (LEDs), the neoBLUE phototherapy device emits a high intensity, narrow band of blue light that is clinically proven to be most effective in the breakdown of bilirubin.

Safe

- The neoBLUE device emits significantly less ultraviolet light than conventional phototherapy devices, reducing the potential risk of skin damage to infants.
- The neoBLUE device emits significantly less infrared radiation than conventional phototherapy devices, reducing the potential risk of fluid loss to infants.

Versatile and Easy to Use

- The light output of the neoBLUE device can be easily adjusted by the user.
- The neoBLUE light enclosure can be adjusted both horizontally and vertically and tilted over a wide angle range.
- The neoBLUE device includes a red target light, which aids the user in aiming the light source over the appropriate area of the baby.

A More Efficient Care Path for Newborn Jaundice

By providing a light source that is most effective for the degradation of bilirubin, the neoBLUE device may result in a more rapid reduction of bilirubin levels in newborns and thus shorter treatment times.

¹ References on file at Natus.

Technical Specifications

Light Source

Wavelength
Intensity
 Low setting
 High setting
Variation in intensity over 6 hrs
Effective surface area
Intensity ratio
Heat output (at 11.8 in over 6 hrs)
 (at 30 cm over 6 hrs)

Blue LEDs
Peak between 450 and 475 nm
Average central intensity at 12 in (30 cm)
 $15 \pm 2 \mu\text{W}/\text{cm}^2/\text{nm}$
 $35 \pm 3.5 \mu\text{W}/\text{cm}^2/\text{nm}$
 $\pm 10\%$ (within illumination area)
20 x 10 in (50 x 25 cm)
 > 0.4 (minimum to maximum)
 $< 50^\circ \text{F}$ (10°C) warmer than ambient

Electrical Mains

85–264 VAC, 47 to 63 Hz

Maximum Rating

3A @ 100–240 V~, 50/60 Hz

Fuses

4A @ 100–120V~, 50/60 Hz
2A @ 200–240V~, 50/60 Hz

Safety

Leakage current
Audible Noise

$< 100 \mu\text{A}$
 $< 50 \text{ dB}$

Dimensions

Maximum Height
Weight

$< 6 \text{ ft}$ (1.83 m)
 $< 8.0 \text{ lbs}$ (3.6 kg) (light enclosure only)
 $< 35 \text{ lbs}$ (15.9 kg) (with roll stand)

Environmental

Operating Temperature/Humidity
Storage Temperature/Humidity

59°F to 95°F (15 to 35°C)/ 0% to 90%
non condensing
 -22°F to 122°F (-30 to 50°C)/ 0% to 90%
non condensing

Roll Stand

Height of diffuser from ground
Center of diffuser from post
Tilt adjustment of enclosure
Height of base from floor
Base

adjustable from 42 to 59 ± 3 inches
(1.07 m to $1.50 \text{ m} \pm 7.5 \text{ cm}$)
adjustable from less than 9 to 13 ± 1 inches
(23 cm to $33 \text{ cm} \pm 2.5 \text{ cm}$)
 0° (horizontal) to approx. 40°
 < 6 inches (15.5 cm)
5 legs with casters (2 locking casters)

Safety and EMC Standards

Type BF
EN 60601-1-1, EN60601-1-2
EN60601-2-50
UL2601-1
CSA C22.2 606.1

Note: Specifications are subject to change without notice.

Authorized Natus Representative:



natus®