

GE Healthcare

Lullaby Phototherapy System

Because every baby deserves a high standard of care



Lullaby Phototherapy

Better for baby. More convenient for you.

What if you could specify a phototherapy system that would meet all of your requirements for clinical quality, versatility, and ease of use?

Now you can.

The Lullaby™ Phototherapy System from GE Healthcare is a unique device for treating indirect hyperbilirubinemia in newborns that combines a high level of clinical performance with a simple, flexible design that improves workflow efficiency and can help keep costs down.

In short – it's phototherapy that makes sense for today's healthcare demands.

Designed to meet high clinical standards

Many overhead phototherapy systems have serious drawbacks from a clinical perspective, including low irradiance levels and scattered, unfocused coverage. The Lullaby Phototherapy System was designed specifically to overcome these impediments to provide more effective newborn care.

The Lullaby Phototherapy System's blue light delivers healing phototherapy that meets internationally recognized clinical guidelines, such as the recommendations of the American Academy of Pediatrics* including the following critical specifications:



Performance Factors	Clinical Guideline	Lullaby™ Phototherapy System
Light Intensity	Irradiance level at least $30 \mu\text{W}\cdot\text{cm}^{-2}\cdot\text{nm}^{-1}$	$30 \mu\text{W}\cdot\text{cm}^{-2}\cdot\text{nm}^{-1}$ @ 35 cm In comparison, many other overhead phototherapy systems provide a low irradiance level of $< 18 \mu\text{W}\cdot\text{cm}^{-2}\cdot\text{nm}^{-1}$
Light Spectrum	Wavelength between 430-490 nm	450-475 nm (peak of 458nm matching the peak absorption wavelength at which bilirubin is broken down) Instead of scattered light, Lullaby Phototherapy System's compact fluorescent lights deliver the highly focused blue light preferred for medical therapy.
Surface Area Coverage	Large surface area to combat extremely high bilirubin levels	Lullaby Phototherapy System's light covers a greater area of baby's mattress than many other overhead phototherapy systems.
Distance	Distance between infant and light source is critical to spectral irradiance level	Lullaby Phototherapy System enables vertical light adjustment from 1190-1650 mm from ground level to achieve optimal source-infant distance. (35 cm or greater)

*American Academy of Pediatrics, clinical practice guideline, subcommittee on hyperbilirubinemia: Management of hyperbilirubinemia in the newborn infant 35 or more weeks of gestation, 2004; 297-316.

Bring the light to baby

The Lullaby Phototherapy System is a highly versatile device that can be used in any clinical setting where phototherapy is needed, including well-baby nurseries, NICU, and PICU. The stand has a vertical light adjustment that enables easy positioning over incubators, radiant warmers, bassinets, or open beds. This versatility makes Lullaby Phototherapy System a highly practical choice to meet your phototherapy needs – wherever and whenever they occur.



Easy does it

Lullaby Phototherapy System is remarkably simple to operate, making it as easy to use as switching on a lamp, even for first-time operators. Its lightweight, slim design and wheel-brake system make it easy to move across various floor surfaces and small spaces – so you can easily give therapy to baby.

A long, cost-effective life

The Lullaby Phototherapy System is exceptionally durable and easy to maintain. GE Healthcare equipment is known for its robust design and this system meets all IEC and EMC regulatory standards for safe operation. The long life of its robust high intensity lamps – upwards of 1000 hours – makes Lullaby Phototherapy System a reliable performer, day after day, patient after patient. There's a lamp-life meter that shows how long the lamps have been operating.

Double intensive phototherapy

If double phototherapy is warranted in an intensive care setting, Lullaby Phototherapy System, along with GE's BiliBlanket HighOutput system, can effectively provide double intensive phototherapy treatment. GE offers a complete portfolio of phototherapy products for treatment of hyperbilirubinemia.

At your service

Like all GE Healthcare products, the Lullaby Phototherapy System is backed by comprehensive service and support. This includes clinical training to optimize the skills and efficiency of your staff. You also can take advantage of our optional multi-year service coverage and extended service options. From training to service, GE Healthcare stands behind you to ensure the long-term sustainability of your equipment investment.



Specifications

Electrical Specifications

100 VA maximum at 120-240 V ~ 50/60 Hz	
Input	0.85 A @ 120 V ~, 50/60 Hz 0.42 A @ 240 V ~, 50/60 Hz
Fuses	T2.0 A, Slow blow type (qty. 2)
Overheat protection	Power cutoff for temperature $\geq 90^{\circ}$ C
Chassis leakage	Less than 500 μ A at 264 VAC RMS (power on) with ground intact for normal and reverse polarity and with ground open for normal and reverse polarity
Ground impedance	Less than 0.1 Ohm from ground pin of the power inlet module to any exposed metal surface

Environmental Operations

Ambient temperature	+10° C to +40° C (50 to 104° F)
Humidity	20% to 95% RH non-condensing
Atmospheric pressure	70 kPa to 106 kPa

Storage Requirements

Temperature	0° C to +70° C (32 °F to 158° F)
Humidity	10% to 95% RH non-condensing
Atmospheric pressure	50 kPa to 106 kPa

Performance Specifications

Spectral Irradiance	High Irradiance Mode: 30 μ W•cm ⁻² •nm ⁻¹ (\pm 25%) 18-point check* Low Irradiance Mode: 20 μ W•cm ⁻² •nm ⁻¹ (\pm 25%) 18-point check
Wavelength	400-550 nm (peak of 450 nm)
Compact Fluorescent Light (CFL) Lamps	A typical CFL lamp will run for 1,000 hours before the light intensity drops to 15%
Acoustic Noise	< 30 dB(A)

*Using an Ohmeda Medical BiliBlanket Light Meter (400-520 nm range) at a distance of 35 cm from light unit

Physical Specifications

Overall dimensions (L x W x H)	592 x 576 x 1695 mm
Total unit weight	20 kg
Footprint	592 x 576 mm
Height	1190 to 1650 mm

Regulatory Standards

IEC Class 1 (continuous operation)	Product TUV certified to the following standards: IEC 60601-1-1; IEC 60601-1-2; IEC 60601-2-50, 2000; UL 60601-1: 2003; IEC 60601-1: 1998; CAN/CSA 601-1M90
EMC Class-A, CISPR 11, Group 1	Certified under IECEE CB scheme

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