



## NYMPHAEA

BOTTOM PHOTOTHERAPY



CE 0123



\*Bassinet (optional)

Nymphaea is sleek, light weight and can be handled effortlessly by care givers. This portable device can be efficiently used to treat neonatal jaundice in an Nicu, Picu or labour room. Nymphaea covers large surface area to provide treatment without hindrance to respiratory and warming therapies.

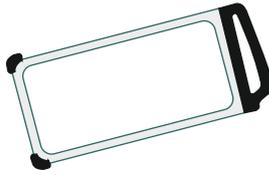
Nymphaea is clubbed with a specially designed air mattress cocoon that provides safety & effective treatment to the neonate.

# Features and Benefits



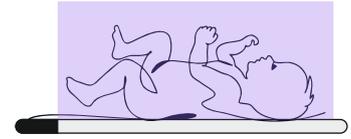
## Lightweight and portable

Can be used anywhere - in NICUs, Paediatric wards, Labour rooms as it is portable and can support effective treatment of neonates suffering from jaundice.



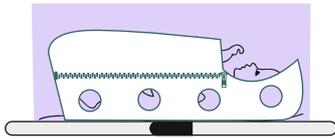
## Slim, sleek and seamless design

Slids under the baby's bed easily. Can be placed in the X-Ray slot of radiant warmers or can be used with bassinet, crib & Top phototherapy.



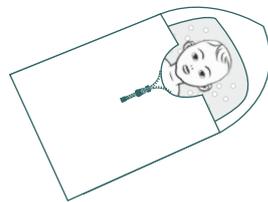
## Uniform distribution of light

With the uniform light distribution, the infant receives equal amount of intensity throughout the treatment area, resulting in effective jaundice treatment.



## Effective & Large surface area

Covers the maximum possible body surface area for effective phototherapy. The cocoon provided with Nymphaea reflects the blue light on the baby making sure the baby is potentially receiving complete LED treatment.



## Extra comfort with a Cocoon

The cocoon provided with Nymphaea has a specially designed air mattress which bestows comfort and safety to the neonates receiving treatment.



## Safety alarm system

Safe to be used under bed as Nymphaea is equipped with audible alarm to indicate power failures and visual alarms for power on, open/short circuit and overcurrent.



## Minimal maintenance

The lifetime of the LED is ~80,000 hours, reducing the cost of LED replacement.



## Ergonomic handle

Designed for convenience & ease of use for care givers.



## Energy efficient

The LED's in Nymphaea consumes less power with a higher lifetime proving to be energy efficient.

## Phoenix Medical Systems Private Limited

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# Technical Specifications

## Performance Specification

Performance feature	Specification
Illumination source	Blue LEDs, 24 Nos
Peak spectral irradiance	45 $\mu\text{W}/\text{cm}^2/\text{nm}$ ( $\pm 25\%$ ) at top of the light unit, as measured with Ohemda Biliblanket meter
Peak wavelength	451 nm
Emission spectrum	445-470 nm (maximum bounds of FWHM range), free from UV and IR radiation
Expected life of the LEDs	>80,000 hours
Rate of decay of intensity	< 4% at 6000 hours (As per LED manufacturers calculation)
Stabilization Period	Approx 30 mins
Irradiance ratio	$\geq 0.4$ (minimum/maximum irradiance)

## Physical Specification

Physical feature	Specification – Top unit
Overall dimensions	589 mm $\times$ 260 mm $\times$ 13 mm
Total unit mass	<4 Kg
Maximum weight on panel	5 Kg
Noise Level	Device Does not generate any noise/ Acoustic Energy
Effective surface area	469.3 mm x 210.3 mm (Whole Panel)
Protection against ingress of liquids	IPX3

## Electrical supply Specification

Electrical supply	Specification
Voltage	100V - 250V AC
Frequency	50 / 60 Hz, single phase
Maximum power consumption	18 W
Fuse Rating	2A

## Irradiance

#	Measured Over Air Mattress
$E_{\lambda\text{mean}}$ [ $\mu\text{W}/\text{cm}^2/\text{nm}$ ] (450-465 nm)	35

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