

# ELIOS

Phototherapy and Heating Lamp





# Elios

The ELIOS Lamp, unique of its type, has been designed to integrate intensive phototherapy treatment with heating newborns who can be placed in beds, changing tables and neonatal treatment tables. The apparatus is equipped with an infrared radiant heating element for heating, 6 high efficiency blue Power LEDs for intensive phototherapy treatment, with a total Irradiance max > 1.500  $\mu\text{w}/\text{cm}^2$  and an area of phototherapy illumination at 80 cm of 70x40  $\text{cm}^2$  (27x16 in<sup>2</sup>), and 4 high efficiency white Power LED's for illumination and inspection of the newborn, everything integrated for use and control by an electronic micro-processor controlled control module. The Heating System consists of a 350W radiant quartz tube with infrared emission and can be used in either Manual or Automatic modes. The Manual mode requires the operator to set the heating quantity. Safety features in this mode are insured by the sounding of an acoustic alarm. The Automatic mode requires the desired skin temperature of the patient to be selected and set by the operator in a range between 23.0°C to 38.0°C, then a sophisticated micro-processor controlled servo-control unit automatically regulates the radiant heat level by using the information which arrives from the

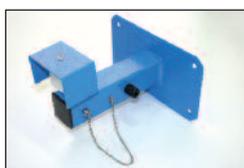
ting those functions already present, the Manual and Automatic, there is also a Pre-heating function which provides for the supply of heating to be equal to 30% of the maximum heating output without any safety alarm coming on for use during the transitional treatment phase of the patient until the system has come up to normal operating condition. The phototherapy system makes use of the efficiency of 6 Blue Power LED's which supply a radiant potential five times superior to a normal neon tube lamp, thus greatly increasing the treatment's efficiency. The treatment is managed using the same micro-processor control which allows to set and monitor, using a dedicated time counter, the current, ongoing and remaining therapy times as well as the total phototherapy time and the life of the LED's. The illumination system is equipped with 4 Daylight LED's which supply a source of white light making for optimal visibility of the newborn. The apparatus is equipped with a height adjustable chrome plated stainless steel stand which has an internal device that facilitates and balances the movements. The Y base is made of oven-baked painted stainless steel mounted on 5 cm diameter wheels. The apparatus footprint is 0.4 m<sup>2</sup> and its weight is approximately 19 kg.

## Technical Specifications

Heating	350W Quartz heating tube
Temperature Control	Automatic, Manual, Pre-heating
Set T Indicator, °C	Digital, 23-38°C
Reading T Indicator, °C	Digital, 15-50°C
Phototherapy Lamp	6 Blue Power LEDs
Illumination Lamp	4 Daylight White LEDs
Power LED Useful Lifetime in hours	> 20000
Weight, kg (lb)	19 (42)
Overhead Fixture dimension, cm (in)	80x28x11 (31.5x11x 4.3)
Height of Overhead Fixture from the ground, cm (in)	135-180 (53-71)
Power Supply	230Vac, 50-60 Hz
Power Consumption	500 W



## Accessories and Consumables



**12423A70**  
Wall Support



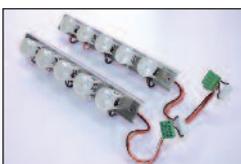
**1749**  
Radiometer RM400



**1645**  
Mask for Phototherapy (50 pcs)



**11730A73**  
Skin Probes Blue (6 pcs)



**12172A73**  
Optical Unit - Phototherapy and Illumination Leds (2 pcs)



**565**  
Sensor probe fixer Gel Reflect Ø38 (24 pcs)  
**11814A73**  
Sensor probe fixer Gel Reflect Ø26 (24 pcs)

8037BCB rev.02