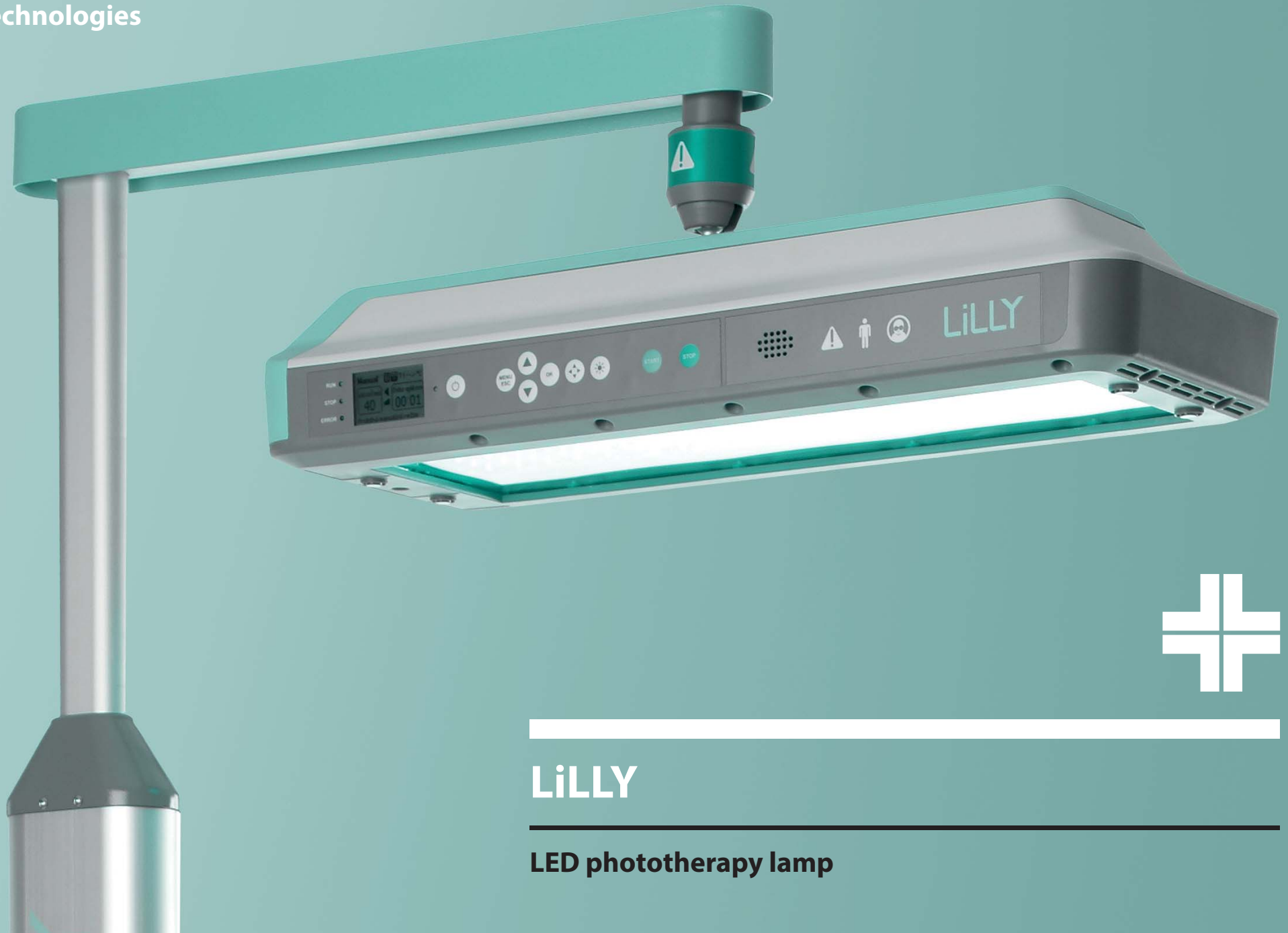


TSE

Smart technologies



LiLLY

LED phototherapy lamp

LED phototherapy lamp LILLY

The Phototherapy lamp Lilly represents the top of the class. The state-of-the-art LED technology is used for neonatal hyperbilirubinemia treatment. A unique apparatus combines safe therapy, ultra long life of radiators, treatment effectiveness and economical operation. It emits intensive light radiation within the spectrum of 440 – 470 nm to reduce bilirubin concentration in the neonatal body.



Adjustable stand • 1

The stand enables the exact adjustment of the lamp at the required height. Simple and stepless control is enabled by an internal gas support controlled by pressing the positioning pedal.

LED technology

The LED technology enables higher effectiveness of treatment within a shorter period of time, economical operation, minimum noise and very long life of the radiators, which are capable of operating at least 60 thousand hours.

Temperature sensor

A temperature sensor, with adjusted alarm limits attached to patient's body, prevents the patient from being overheated.

Double use

The simple and safe attachment of the radiator with a fastening nut enables the lamp to be used on an incubator cover. Anti slip pads ensure stable positioning. It can also be suspended on a stand for use over an infant bed or a warming bed.

Examination light - 2

A white examination light set to daylight allows correct identification of the infant's skin colour. It enables a quick visual classification of the patient's condition without requiring the taking of blood or other measurements.

Flexible positioning - 3

Joint suspension enables flexible positioning of the phototherapy radiator in all directions. Direction points make it easy to find the best position for optimum coverage of patient's body with therapeutic light.

Intuitive control - 4

Intuitive controls including a navigation line make the operation easy. It enables the operators to choose from two treatment modes.

Manual mode

The manual mode enables adjustments to the required light intensity. A time counter on the main screen displays the total treatment time. The counter always automatically stops when treatment is interrupted and continues after it is resumed.

Therapeutic mode

The therapeutic mode enables the selection of therapeutic programmes that may be freely changed and stored. Each therapeutic programme consists of three treatment sequences. Each sequence has an adjusted treatment intensity and time; as soon as one sequence ends the unit starts the next one automatically until it reaches the end of the programme.

Automatic regulation of radiation intensity

When switched on, in each mode the unit sets the exact intensity according to the distance between the radiator and the patient. This ensures maximum treatment effectiveness and simplifies the operation.

Function monitoring and lifetime measurement

The continuous monitoring of correct functions guarantees patient safety and treatment efficiency. An integrated system measures the lifetime of the LEDs. The unit watches itself and any deviations (e.g. failures, power failure, change in radiation intensity or necessity of servicing) are announced by an alarm.

2



3



4





Power voltage Max. Input power of the unit	110 – 230 V, 50/60 Hz 100 VA
Dimensions without stand	Height 119 mm Length 588 mm Width 244 mm
Weight without stand	5 kg
Dominant wave length LED life Radiated area (Effective surface)	440 – 470 nm min. 60 000 hrs of operation 600x300 mm (at the distance of 360 mm)
Modes Manual mode Therapeutic mode	Regular mode 25 $\mu\text{W}/\text{cm}^2.\text{nm}$ Intensive mode >35 $\mu\text{W}/\text{cm}^2.\text{nm}$ Application time measurement Intensity adjustment range 8 – 40 $\mu\text{W}/\text{cm}^2.\text{nm}$ with increments of 5 $\mu\text{W}/\text{cm}^2.\text{nm}$ Application time adjustment range from 1 min. to 99 hrs The mode may be adjusted in 3 programmable sequences
Body temperature measurement Measurement range Measurement accuracy Alarms	25 – 43 °C ± 0.3 °C Low/high temperature (adjustable limits) Patient overheating protection
Optional accessories Stand Dimensions	Weight 16 kg Adjustable height 1200 – 1550 mm Width 750 mm Length 707 mm Continuous radiator position in all axes up to 35°

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