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**Product Name :**  
Photo therapy unit,w/access

**Product Code :**  
LBNY-0017-220003



www.laboratoryinstrumentindia.com

#### **Description :**

Mobile LED phototherapy unit AC powered including accessories. Jaundice, a yellowish discoloration of the skin, eyes, and mucous membranes, is a major symptom observed when bilirubin levels in blood rise above 5 mg/dL. Phototherapy units are used to treat hyperbilirubinemia, a condition characterized by high bilirubin concentrations in the blood. Bilirubin, a product of haemoglobin breakdown, remains in the body until the liver can convert it to a form that can be excreted.

#### **Technical Specification :**

Sturdy and stable wheeled base with a low profile.  
The wheeled base is provided with a minimum of three (3) or more anti-static swivel castors.  
The single head allows tilting up to a minimum of 45°.  
All surfaces to be made of corrosion resistant materials resistant to hospital grade disinfection chemicals.  
The unit should be equipped with an integrated, operator resettable, therapy timer.  
The base is provided with a minimum of two (2) or more brakes castors.  
The unit has an adjustable height with a minimum range: 1.20 – 1.60 m.  
The unit includes an arm to allow positioning (swivel) the unit above an incubator or a cradle.  
The therapy timer indicates the elapsed time.  
The therapy time is unaffected by power outages up to 10 minutes.  
External surfaces of the unit shall never exceed 40 degrees either through an active cooling provision or through design of the unit.  
The unit includes a provision to safeguard patients from excessive temperatures utilizing a skin temperature sensor and alarms or cutting of the mains supply when limits are exceeded.  
Equipped with examination LEDs providing white light.

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Power requirements: 100- 240 Volts – 50/60 Hz.

**LIGHTING SYSTEM FEATURES:**

Intensive phototherapy minimum irradiance range:  $\geq 30 \mu\text{W}/\text{cm}^2/\text{nm}$ .

Ultraviolet levels shall not exceed a maximum effective radiance of  $0.1 \text{ W}/\text{cm}^2$  for ultraviolet B radiation (280 to 315 nm).

Achieves the phototherapy for a single surface utilising LEDs only.

Blub lifetime at least 50,000 hrs.

Standard phototherapy irradiance within range:  $8 - 15 \mu\text{W}/\text{cm}^2/\text{nm}$ .

Ultraviolet levels shall not exceed a maximum irradiance of  $1,000 \text{ W}/\text{cm}^2$  for ultraviolet A radiation (315 to 400 nm).

Near-infrared (780 to 1,400 nm) radiation shall not exceed safe limits.

The wavelength bandwidth should cover at a minimum 450 – 470 nm.

Minimum effective surface area  $\geq 1,220 \text{ cm}^2$ .

**SUPPLIED WITH**

2 x replacement sets of fuses, if replaceable types are used.

1 x Plastic protective dustcover.

10 x eyes protection masks neonatal medium size.

10 x eyes protection masks newborn very small size.

10 x eyes protection masks neonatal small size.



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