

OFN-03

Neonatal phototherapy irradiator

The irradiator is intended to carry out extra intensive neonate phototherapy with the purpose to efficiently treat jaundice in obstetrics institutions. Concentration of indirect (unconjugated) bilirubin in the blood is decreased due to irradiation of the neonate by light flux in spectral medical range 430-530 nm.



Advantages

- Operation modes: CLOCK and TIMER (time countdown)
- Levels of phototherapy radiation intensity: maximum and mean
- Extra bright light diodes of narrow spectrum provide the irradiator life time more than 50 thousand hours
- Location universality: on the incubator cupola or on the mobile pole
- Noiselessness and low consumption of electrical energy
- Availability of built-in protection from overheating
- Sound and visual information signalization
- Availability of irradiator operation hours display

Technical characteristics

Total radiation intensity for bilirubin in the center of efficient irradiation area at a distance 450 mm from the protective glass for the following radiation level:

– maximum	5500±900 mcW/cm ²
– mean	3000±600 mcW/cm ²

Mean value of spectral intensity density in the center of efficient irradiation area at a distance 450 mm from the warmer protective glass for the following radiation level:

– maximum	40 mcW/(cm ² ·nm)
– mean	20 mcW/(cm ² ·nm)

Efficient irradiation area 300x220 mm

Power consumption 50 V·A

Class of safety IIa

For irradiator with pole:

– minimum height from the illuminator protective glass to the floor	950 mm
– height adjustment ranges of the illuminator location (from the ultimate low position to the ultimate upper)	not less than 350 mm
– illuminator rotation angles on the pole stud around horizontal axis	90°

