

OFN-02

Neonatal phototherapy irradiator

The irradiator OFN-02 is intended for efficient treatment of neonates jaundice without use of additional medicines in obstetrics institutions, perinatal centers, specialized centers and Research institutes of maternity and childhood protection. OFN-02 as for totality of medical-and-technical values considerably exceeds existing characteristics of lamp irradiators.

The principle of irradiator operation is based on irradiation of the neonate's skin by light radiation in spectral range 450-500 nm (blue radiation), thus resulting in decrease of bilirubin concentration in blood.



Advantages

- Absence of collateral adverse effects appropriate to the lamp-type light sources
- Time of the neonate irradiation is decreased by twice
- Long life time of irradiator
- Two operation modes
- Operation noiselessness
- Reduction of electrical energy consumption
- Compactness, possibility to locate directly over the incubator bed
- Possibility of completing both with the pole and without it
- Large area of useful irradiation

Technical characteristics

Light radiation spectral range	450-500 nm
Radiation power spectral density at a distance 460 mm from the protective glass:	
– maximum	40 mcW/cm ² nm
– mean	20 mcW/cm ² nm
Continuous operation time	more than 72 hours
Operation mode entering time	less than 10 s
Irradiation useful area	300x220 mm
Overall dimension:	
– illuminator with pole	329x442x60 mm
– illuminator without pole	308x308x68 mm
– pole	698x575x(1173-1523) mm
Weight:	
– illuminator without pole	1,2 kg
– illuminator with pole	10,5 kg
Power consumption	30 V·A
Class of safety	IIa