

## **ORS-BONO**

## Open resuscitation system for neonates

The ORS-BONO system is intended for carrying out of resuscitation, treatment, and nursing of neonates, including premature infants, in maternity hospitals, pathology sections, intensive therapy, and resuscitation wards. Application of the system allows to decrease period of neonates treatment and nursing and reduce percentage of diseases and complications, connected with jaundice.

ORS-BONO can be also applied as the main or additional heating source, for carrying out of breathing therapy without intubation and hyperbilirubinemia treatment.



## **Advantages**

- Pneumatic unit of respiratory support with two non-invasive operation modes nCPAP & Resuscitation
- 2 modes of phototherapy intensity and heating power
- Patient bed is equipped with removable slot for X-ray cassette installation
- Adjustment of heater intensity by patient's skin
- Illumination of infant bed
- O<sub>2</sub> concentration measurement in gas mixture, delivered to the patient, with oxygen sensor automatic calibration
- Infant bed rotation 360°, adjustment of height and tilt
- Operation from built-in rechargeable battery
- Module APGAR-timer

## Technical specification

Overall dimensions (with upper position of the pole) 2130x1550x800 mm

Weight 115 kg
Maximum angle of infant bed inclination 10°

Stroke length of the lifting mechanism 200 mm llumination in the mattress center 1000 lux

Mattress in a cover ( diameter ) not more than 620 mm

Duration of breathing therapy modes operation from the built-in

storage battery no less than 60 min

Class of safety II

**Heating therapy** 

Modes of operation with heating — Mode of preliminary heating

Manual modeAutomatic mode

Level of irradiance at any point of working field in the nearest area of infrared range of spectrum (from 760 to 1400 nm)

area of infrared range of spectrum (from 760 to 1400 nm) up to 10 mW/cm²
Level of intensity of radiation in the mode of preliminary heating

at any point of infant bed 15 mW/cm<sup>2</sup>

Level of radiation in the manual mode at any point of the infant

1. with skin temperature sensor (main and/or additional):

 $\begin{array}{ll} - \mbox{ main range} & \mbox{from 0 to 10 (from 0% to 33\%)} \\ - \mbox{ additional range} & \mbox{from 10 to 30 (from 33\% to 100\%)} \end{array}$ 

2. without skin temperature sensor up to 10 (not more than 33%)

Range of temperature adjustment in automatic mode with

discreteness 0,1  $^{\circ}$ C from 30 to 38  $^{\circ}$ C

Respiratory therapy

Modes of respiratory therapy operation RESUSCITATION

nCPAP

Automatic calibration of oxygen sensor available

Concentration of oxygen in oxygen-air mixture is adjusted

within the range from 21 to 100%

Adjusted range of pressure:

 - RESUSCITATION
 from 0 to 50 cm H2O

 - nCPAP
 from 0 to 20 cm H2O

Blocking of oxygen-air mixture supply:

 - RESUSCITATION
 con 55 cm H2O

 - nCPAP
 con 25 cm H2O

Phototherapy

Two ways to set the time: CLOCK, TIMER

Intensity of radiation for bilirubin: available

– Level 1

- Level 2 3800 $\pm$ 700 mcW/cm² Average value of spectral density of radiation intensity on infant 1900 $\pm$ 400 mcW/cm²

mattress in the center of effective radiation area:

- Level 1

- Level 2 36 mcW/(cm<sup>2</sup> \* nm)

18 mcW/(cm<sup>2</sup> \* nm)

Alarms

Sound and light alarm available

