

**novos**  
medical systems







# Intensive Phototherapy Unit Bilisphere 360° LED

Kemenkes RI AKL 20902220230



## HIGHLIGHTS & BENEFITS

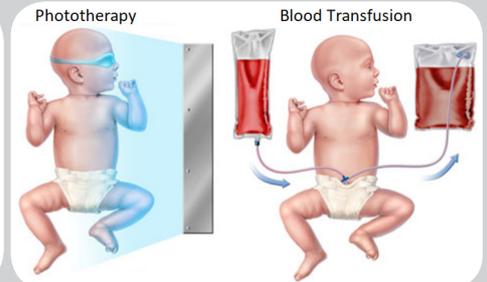
- Bilirubin rate can be decreased up to 0.84 mg/dl per hour so treatment time is reduced.
- Thermo Elevation prevents risks for hypertermia, water loss, tissue and cell damages.
- LED lights eliminates the side effects arising from fluorescent and halogen lights.
- 50.000 hours of lamp life time provides lower operational costs.
- Optional Novos Bililed Radiometer is recommended to check LED effectiveness.
- NOVOS presents the Bilisphere 360 Led; the most effective way to rapidly and safely reduce bilirubin levels in the blood, eliminating the need for a blood transfusion.



**Bilisphere 360 Led**  
Bilirubin decreases \*0,84 mg/dl per hour.

## MAIN PURPOSE

- Risks of blood exchange is prevented
- Treat jaundice
- Stress is eliminated
- Shortens treatment time
- Early discharge
- Provides early baby-mother contact



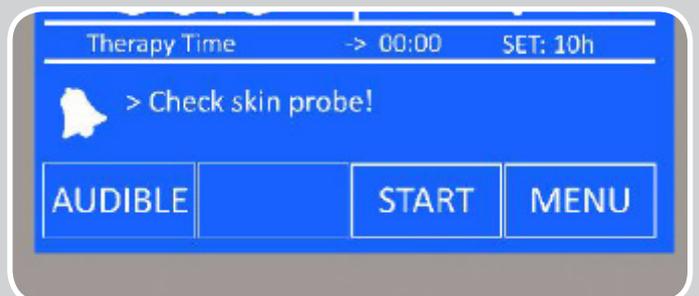
## CONTROL PANEL



- Userfriendly interface allows you to make all necessary adjustments easily.
- User interface consists of two main regions.



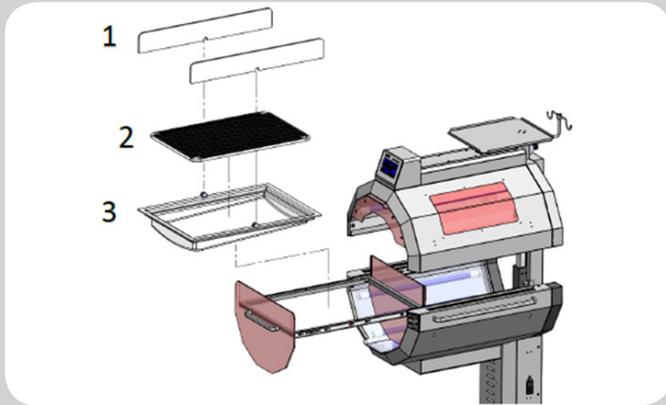
Upper part shows actual temperature monitoring.



Lower part shows Therapy Time, warnings and notifications.

## MAIN BODY

- Side protectors & Baby cot
- Hammock
- LED tubes



## SIDE PROTECTORS & BABY COT

- Sliding tray with reusable and washable hammock.
- Detachable side protectors – Provides a safe region for the newborn.
- Baby cot with drain hole- Falling risk eliminated and liquid leaks prevented.
- Extractable bed drawer and baby cot - Easy access for cleaning device interior.



## HAMMOCK

- Hammock can be removed from its frame easily for cleaning.



## LED TUBES

- The device contains 16 LED tubes, each with a service life of 50,000 hours.
- Long lifespan and cost-effective
- Free from UV and IR radiation
- Minimal heat generation
- Energy-efficient and environmentally friendly

## HOW TO USE

- Touch Screen
- User Friendly
- Hygienic use

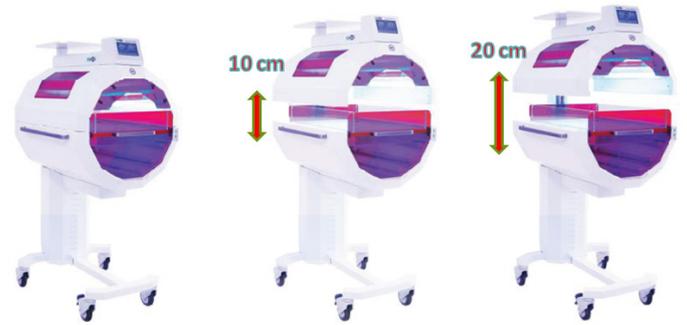


Open sliding drawer and place the infant on the hammock.



Plug power cable and turn on the device.

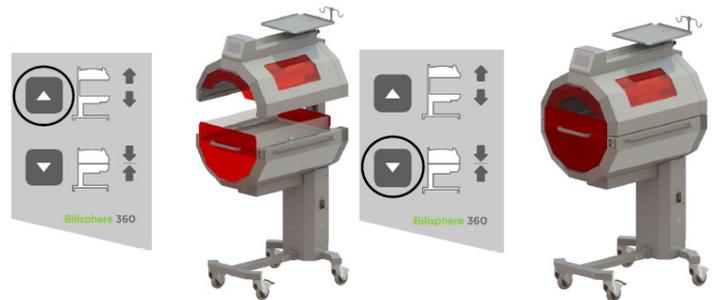
## THERMO ELEVATION SYSTEM®



- 32 C° – Upper fan activates
- 34 C° – Upper & Lower fans are both active
- 35 C° – Thermo Elevation 1st stage (10 cm)
- 36 C° – Thermo Elevation 2nd stage (10 cm more)
- 37 C° – System shot down



## MANUAL HEIGHT ADJUSTMENT BUTTONS



Please be cautious of hand or tool entrapment while manually lowering the upper couple.

## ALARMS

There are 8 different alarms

- High and Low skin temp
- High and Low air temp
- Skin probe & Air probe failure
- Therapy end
- Lamp usage time



### Alarm Message



### Warning Messages



## 1 UNIT INCLUDED

- Main Unit : 1 unit
- Hammock : 2 unit
- Eye protection mask small : 1 pcs
- Eye protection mask medium : 1 pcs
- Eye protection mask large : 1 pcs
- Skin probe : 1 pcs
- Air probe : 1 pcs
- IV Pole : 1 pcs
- Monitor tray : 1 pcs

# Infant Incubator KI-1000

Kemenkes RI AKL 20902220309



## HIGHLIGHTS & BENEFITS

- The Servo humidity system, IV Pole, monitor tray, double wall, double sided canopy, X-ray tray, drawers, LCD touch screen and warning system of bacterial filter change time are standard features on KI 1000 incubator.
- TTSS – Target Temperature Surveillance System Mode (in addition to Air and Skin mode) - UNIQUE to KI 1000 , warns the user and allows early intervention for the baby in critical situations like unexpected infection / fever or cold on the baby or unexpected environmental heat increase.
- The Central and peripheral skin temperature measurement (If optional probe is purchased) and graphic monitoring of the selected parameter is standard feature of KI 1000 which ensures early diagnosis of Thermal Stress which is available.
- Very easy to use User Interface of KI 1000 minimizes repetitive training needs.
- The optional smart weight has auto-tare feature unique to KI 1000 minimizes workload of clinician.



## MAIN PURPOSE

- Stable Microenvironment
- Precise Temperature and Humidity Control
- Maximum Comfort

## THE NEED FOR PROTECTION

- Temperature controlled.
- Sterile; minimizing the risk of infection.
- Isolated from dust and allergens.
- Insulate from outside noise.

## KEY ELEMENTS FOR SURVIVAL

- Temperature regulation.
- Evaporative water loss.

## SUMMARY

- Homogenous Heating
- Double Thermistor Air Sensor
- Target Temperature Surveillance System
- Touch Screen Colored Display
- Prevents cold and heat stress.
- Prevents Transepidermal Water Loss
- Less intervention = Less stress

## HOW TO USE

- Touch Screen
- User Friendly
- Hygienic use



## MAIN PARTS

- Control Panel
- Canopy
- Trolley

### CONTROL PANEL



- 7 inch Touchscreen LCD

### CANOPY



#### X-Ray Tray

- Double wall design
- Take X-Ray without interrupting the thermal therapy

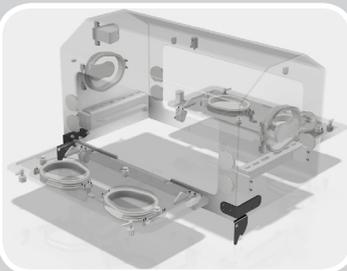


#### Front and Rear Large Access Doors

- Clear Visibility
- Easy Access
- Simultaneous Examination/Operation

#### Double Wall

- Standard double wall on doors design prevents heat loss.
- An ideal and stabilized microenvironment.



#### Oval Windows & Grommets

- The small oval windows on the rear and front sides
- 4 small at front side
- 4 small at rear side
- 2 large at left and right sides



#### Trendelenburg Mechanism

- Trendelenburg positions: resuscitation, air embolism, enhancing blood flow to the brain, administering anesthesia effect, preventing aspiration from vomiting.
- Trendelenburg can adjust  $\pm 12^\circ$ .



#### Smart Weigh System (OPTIONAL)

- Smart weigh system allows you to take weight measurements without opening the front door and interrupting thermal therapy.



#### Sensor Module

- Standard Humidity Sensor
- Optional Oxygen Sensor (Double oxygen cells provide more accurate readings)



#### Servo Oxygen & Flow Controlled Oxygen

- Oxygen administration with servo oxygen or flow controlled oxygen systems.



#### Adjustable IV Pole and Monitor Tray (Standard)

- Patient Monitors, SPO2 Monitors etc. can easily be located on monitor tray.

### TROLLEY



#### Trolley Incubator

- Easy to relocate and fix by 4 lockable wheels.
- Large space available inside drawers.



#### Height Adjustment (Optional)

- Ergonomic usage provided by optional height adjustment.



#### Plug The Device

- Plug the device to the power supply.
- Press the On/Off switch located on the right side of the control panel.
- An audible alarm will be heard. If there is no alarm, call service.
- The Novos Medical Systems logo appears on the opening screen.
- The incubator performs a "self-test" at each power-up.



### 1 UNIT INCLUDED

- Main Unit
- X-Ray Tray
- IV Pole
- Skin Probe
- Matrass
- Monitor tray
- O2 servo control
- Integrated weighing Scale (Optional)

# Infant Radiant Warmer KR-1000

Kemenkes RI AKL 20902220362



## HIGHLIGHTS & BENEFITS

- 10-20 years life time and very low operating costs.
- Ceramic resistance system : best way to distribute heat homogeneously. The service returns of the NOVOS ceramic resistance for the last 10 years is only 0.005 which means very low cost of operation.
- Hands-free alarm silencing feature to provide hand hygiene.
- Easy and fast bed inclination of infant bed by pressing a single button and memorizing the angle of Trendelenburg.
- Standard X-RAY cassette tray .
- Preheat mode (in addition to baby and manual modes) is available and supports temperature

- regulation of newborn in delivery rooms.
- Apgar and two different timers is available.
- Automatic heating cut-off the rotating head to prevent damage to any auxiliary elements during x-ray shooting.
- System can be upgraded with Vacuum, Oxygen mixer, Monitor Tray, IV pole after sale.
- The optional smartweigh feature has auto-tare feature unique to KR 1000 minimizes workload of clinician.
- The optional Resuscitation Module, Easypuff ensures accurate and controlled resuscitation of infants in emergency / delivery rooms.

## MAIN PURPOSE

- Our main purpose is to provide a warm welcome and a natural environment for newborns.

## GREAT SOLUTION

- Delivery; transition from the mother's warm uterus (37°C) to a cooler environment.
- Newborns & Prematures can lose 2-4°C of body temperature within 30 minutes of birth.
- Risk of rapid heat loss.
- Hypothermia ---> Hypoxia

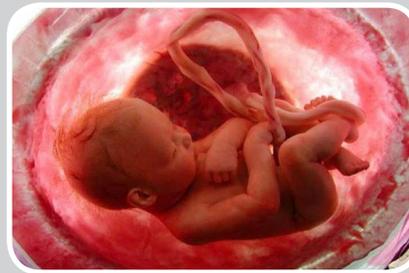
## COLD STRESS IN NEWBORNS (HYPOTHERMIA)

- Hypothermia is a dangerous condition might causes deaths when body temperature drops below 36°C.
- For preventing hypothermia optimal room temperature after delivery or during surgery is crucial.
- Kangaroo KR1000 Baby Radiant Warmer helps maintain the newborn's body temperature.

## CERAMIC HEATERS AND EXAMINATION LIGHTS

1. Ceramic Resistances
2. Examination LED

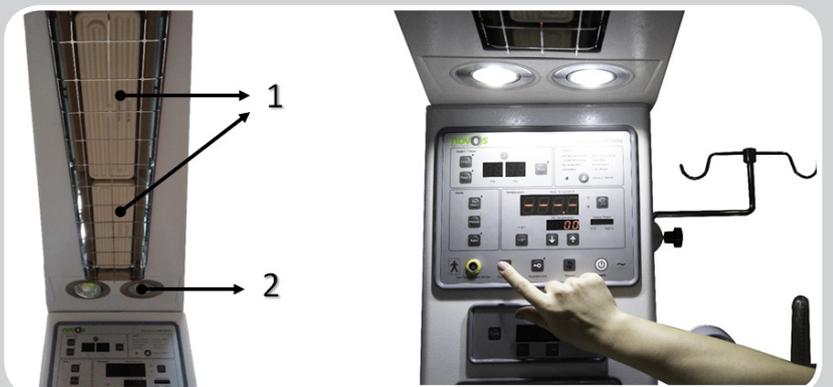
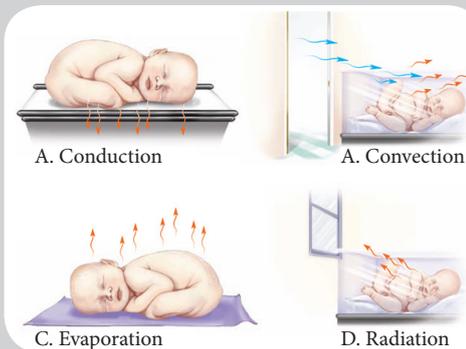
NICU units often have limited space, making compact devices essential to save space and reduce costs. Integrated, tiltable LED examination lamps eliminate the need for an extra lamp, offering clear observation during newborn examinations. The service returns of the NOVOS ceramic resistance for the last 10 years is only 0.005 which means very low cost of operation.



Uterus  
37°C



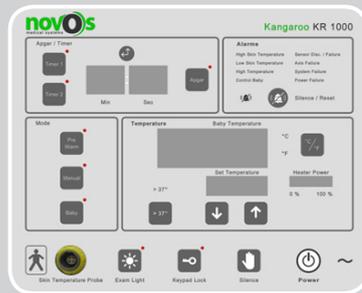
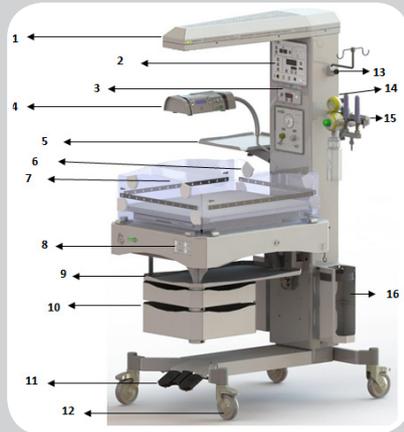
Delivery Room  
26°C



## ISOMETRIC VIEW

1. Warmer Head
2. Control Panel
3. Scale Control Unit
4. Phototherapy Unit
5. Monitor Tray
6. Grommet
7. Side Protector
8. Trendelenburg Control Unit
9. Tray
10. Drawer
11. Height Adjustment Footswitch
12. Wheel
13. IV Pole
14. Handle

15. Extension Bar
16. Cylinder Racks



### Control Panel

You can see Apgar / Timer panel on upper left corner, Alarms panel on upper right corner, Mode panel lower left corner, Temperature panel on lower right corner. Also, you can see Skin Temperature Probe inlet, Examination Light switch, Keypad Lock switch, Hand-Free silence, Power switch on bottom side.



### Bassinet Platform

- Name Tag
- Grommets 4 at front 4 at back side.



### Foldable Plexiglass Protectors

- 3 standard foldable side panels (with rulers)
- 1 detachable panel with a name tag.



### 360° Rotatable Bed (Optional)

- Clinicians can easily rotate the bed platform instead of changing their positions or repositioning the newborn. In this way, it prevents stress for the baby.

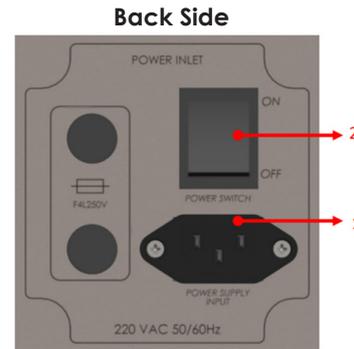


### Air Probe (Optional)

- Air probe measure the room temperature. It works with Pre heating mode, I will explain in how to use chapter.

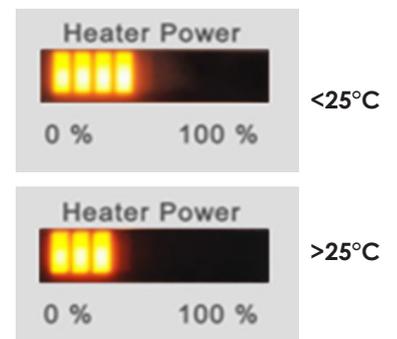
## HOW TO USE

- User Friendly
- Hygienic use



### Switching on the Device

- Connect the power cord to a properly grounded socket and the power input socket (1).
- Turn the primary power switch «ON» (2).
- Press the control panel power button (3).
- As a safety precaution, the device works in baby mode at every startup.
- The device performs a "self-test" at each power-up.
- When the air probe option is not available, it always operates at 40% power.



### Operating Modes

- The Pre Warm mode warms the mattress for a cozy welcome to the newborn.
- The Manual mode provides a specified power level to the heaters.
- Baby Mode (Servo Mode) adjusts heater output based on the target skin temperature.



### EasyPuff for perfect resuscitation (Optional)

- Consistent delivery of pressure.
- Reliable delivery of 21% – 100% oxygen concentration.
- Reliable peak inspiratory pressure (PIP) and positive end-expiratory pressure (PEEP).



### Alarms

- High Skin Temperature:
- >0.5°C set temperature. (Baby Mode)
  - >38°C (Manual and Pre-warm)
- Low Skin Temperature:
- < 0.5°C set temperature.
- High Temperature:
- >39°C (Baby Mode)
  - >38°C (Manual and Pre-warm)

## HIGHLIGHTS & BENEFITS



## OPTIONAL FEATURES



## 1 UNIT INCLUDED

- Main Unit
- X-Ray Tray
- EasyPuff T-Piece Resuscitator
- Integrated Baby Scale
- Rotating Bed
- Drawer
- IV pole

# Infant Transport Incubator KT-1000

Kemenkes RI AKL 20902220994



## HIGHLIGHTS & BENEFITS

- Advanced Insulation and Thermal Balance.
- User Friendly Display.
- Canopy comes with 3 access doors and head side of canopy can be selected by the customer.
- Optional Built-in Aspiration Unit.
- Long Battery Runtime (2 Battery operates 6-8 hours).
- 12V DC External Input.
- Passive Humidification for safety.
- RTCA Tested for Air Transports.
- Adjustable Examination Light Intensity.
- Battery level indicator.
- Auxiliary Equipment Mounting Options.
- Fast Charging (6 Hours).
- Different Stretcher Options.



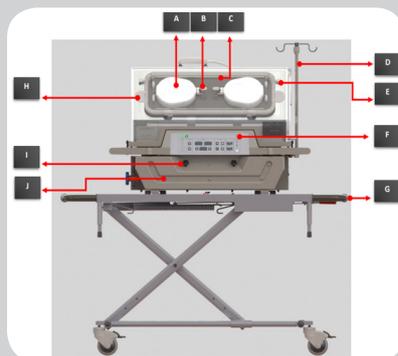
## MAIN PURPOSE

- Safe transportation of premature or ill newborns between facilities or departments involves maintaining suitable temperature and humidity conditions.
- This includes monitoring skin and air temperature to ensure the baby remains at an optimal temperature.
- Additionally, respiratory support can be provided using the optional cylinder, ventilation and vacuum unit in the device.



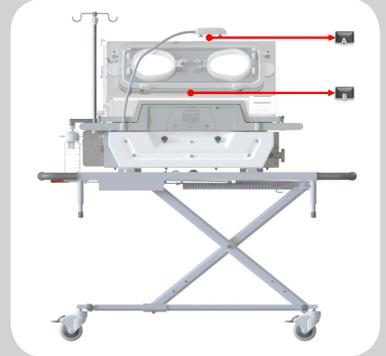
## FRONT VIEW

- A. Oval Window
- B. Oval Window Latch
- C. Front Access Panel
- D. IV Pole
- E. Access Panel Locking Latch
- F. Control Unit
- G. Trolley
- H. Grommet
- I. Gas Cylinder Fixing Latch
- J. Gas Cylinder Housing



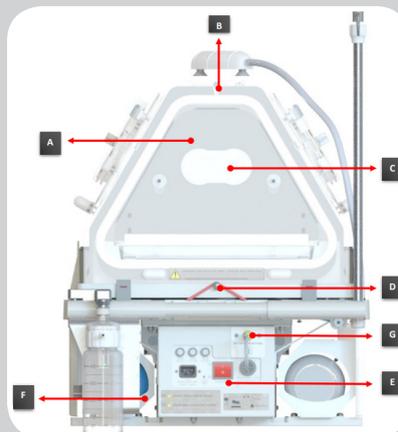
## REAR VIEW

- A. Examination Light
- B. Air Aspiration Filter



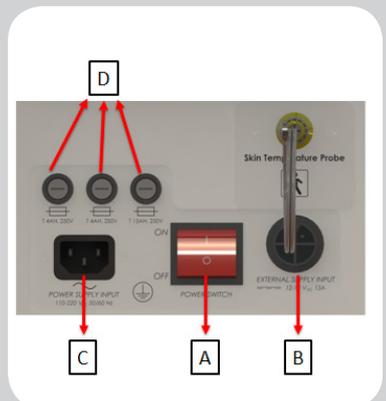
## SIDE VIEW

- A. Head End Access Panel
- B. Access Panel Locking Latch
- C. Grommet
- D. Canopy Latch
- E. Power Panel
- F. Gas Cylinder
- G. Skin Probe



## POWER PANEL

- A. Main Power On/Off Switch
- B. External DC power socket
- C. IEC C14 power input
- D. Fuse holders



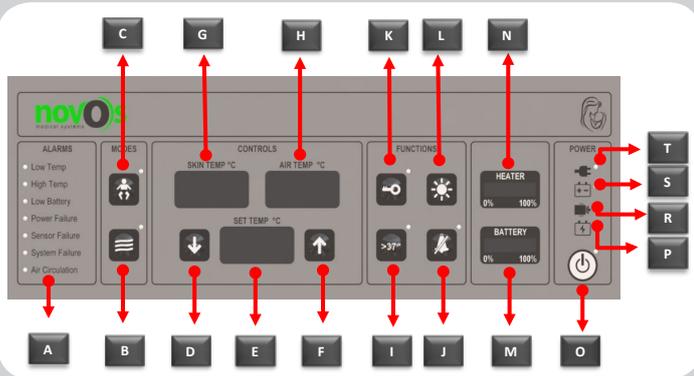
## MAIN PARTS

- Control Panel
- Main Body
- Trolley or Stretcher

## MAIN BODY

- Canopy
- Lower Base
- Accessories

## CONTROL PANEL



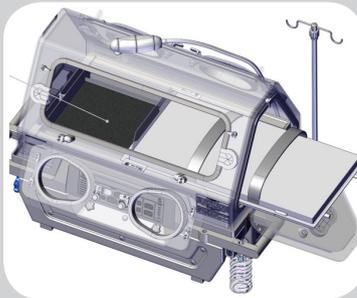
### User Interface/Display

- A. Alarms
- B. Air Mode Button
- C. Skin Mode Button
- D. Down Arrow Button
- E. Target Temp. Display
- F. Up Arrow Button
- G. Skin Temp. Display
- H. Air Temp. Display
- I. >37°C Confirmation Button
- J. Silence/Pause Alarm Button
- K. Keypad Locker Button
- L. Light On/Off Button
- M. Battery Level Display Screen
- N. Heater Level Display Screen
- O. Power on/off Button
- P. Battery Recharging
- R. Device is running on the on-board lighter
- S. Device is running on the battery
- T. Device is running on AC voltage



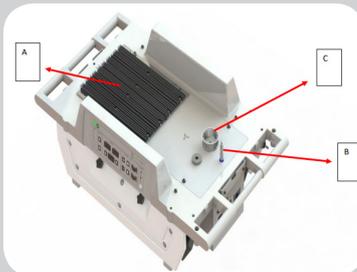
### Canopy

- On the KT-1000, the canopy can be configured to open from the right or left based on the end user's request or the type of ambulance.
- On the KT-1000, the canopy can be opened from the front and rear for operational interventions. Infant bed can pull out from head of canopy.
- KT-1000 has : 6 grommets, 4 hand ports, Reusable Skin Probe



### Humidity Chamber

- Place the humidity pad in the humidity chamber .
- Add max. 500 mL of distilled water to the humidity pad in one go. A soaking process provides minimum 12 hours of humidity.



### Lower Base

- A. Heating Radiators
- B. Air Temperature Sensor
- C. Fan Propeller



### Examination Light

- Use the « » button on the control unit to set the examination light to the desired stage of 3 stages.
- The examination light can be placed on the canopy with a movable arm.

## HOW TO USE

- Plug into AC cable to the Power Supply Input.
- Press «Power Switch» on from right side.
- Press the «Switch On/Off» button on the control unit.
- The device will run a self-test for around 3 seconds.

### Operating Modes

- The Skin Mode adjusts heater output based on the target skin temperature.
- The Air Mode adjusts heater output based on the target air temperature.



### Pre-Heating Procedure

- Pre-Heat the incubator to the recommended temperature during the treatment as prescribed by the doctor or in accordance with care protocol.
- Pre-Heat the incubator when the incubator is connected to an external AC power supply before it switches to battery mode in order to ensure maximum use of batteries during transport.
- Completely recharge the battery (6 hours) before you use the incubator for transport.

### Alarms

- Low Temp,
- Both mode, -1° C
- High Temp,
- Both mode, +1° C
- Low Battery,
- Power Failure,
- Sensor Failure,
- System Failure,
- Air Circulation.

### Optional Features



### 1 UNIT INCLUDED

- Main Unit : 1 pcs
- Electric Suction System : 1 pcs
- Power Cable, EU Plug Type : 1 pcs
- External Power Input Cable : 1 pcs
- Canopy with Right Side Door : 1 pcs
- Monitor Tray : 1 pcs
- 3 Levels Adjustable, Transport Trolley (optional) : 1 pcs
- IV Infusion Pole : 1 pcs

# Novos Infant Resucitator Easy Puff

Kemenkes RI AKL 20403220348



## HIGHLIGHTS & BENEFITS

- Easypuff is a perfect choice for accurate and controlled resuscitation of infants in emergency, delivery rooms, transport and NICU.
- Easy to use
- Lightweight, portable
- Consistent delivery of pressure
- No fatigue from bagging
- Reliable delivery of 21% – 100% oxygen concentration
- Reliable control of peak inspiratory (PIP)
- Reliable control of positive end-expiratory pressure (PEEP)
- Easypuff can be integrated in KR 1000 Infant Radiant Warmer

## MAIN PURPOSE

- Easypuff Infant Resuscitation Device is an easy-to-use, gas-operated respirator that provides control and precise resuscitation of newborn babies in hospital rooms, nurseries and neonatal intensive care units.
- Easypuff Infant Resuscitation Device is a baby breathing device where the user can determine the exact amount of air/oxygen mixture pressure that is transferred to the baby's lung.

## EASYPUFF FOR PERFECT RESUSCITATION

- Consistent delivery of pressure.
- Reliable delivery of 21% – 100% oxygen concentration.
- Reliable peak inspiratory pressure (PIP) and positive end expiratory pressure (PEEP).

## EASYPUFF T-PIECE INFANT RESUSCITATOR

- To make sure that the device works correctly, the following operations should be done before each use of Easypuff.
- Check the manometer. The manometer should show zero, indicating that there is no gas flow. If not, the manometer needs to be calibrated.
- Connect a gas source from the flowmeter or blender to Easypuff gas inlet.
- Connect the T-Piece circuit to patient hose.
- Connect the test balloon to the T-Piece circuit.
- Check flow settings from gas source.
- Adjust the gas outlet to the desired flow rate between 5-15 lpm from flowmeter or blender. Recommended flow rate is 8 lpm.
- To adjust the maximum pressure, remove the protective cap.
- While closing the PEEP cap with your thumb, adjust the maximum pressure control to the desired maximum pressure. Close the protective cap.
- Set PIP Value, While closing the PEEP cap with your thumb, turn the PIP control counterclockwise until the desired peak inspiratory pressure is set.
- Set PEEP Value, Take your thumb off the PEEP cap and adjust the PEEP value by turning the PEEP cap.
- After adjusting the PIP and PEEP pressures, remove the test balloon.
- Select an appropriately sized neonatal resuscitation mask and connect to T-piece circuit. Place the mask over the baby's mouth.
- Resuscitate by closing/opening the PEEP cap with your thumb to allow for inspiration and expiration.

## 1 UNIT INCLUDED

- Easypuff Infant Resucitator
- 1 pcs T-piece patient circuit
- 2 pcs round mask
- 1 pcs test lung and gas supply line
- 1 pcs Mobile stand (Optional)
- 2 pcs Tabung oxygen (Optional)
- Air/O2 blender (Optional)
- 1 pcs basket (Optional)
- 1 pcs IV Pole (Optional)





# Phototherapy Lamp Mobile Stand Billed Maxi

Kemenkes RI AKL 20902220527

## HIGHLIGHTS & BENEFITS

- Strong Light Intensity and homogenous light distribution.
- 50.000 hours of Lamp Lifetime.
- It does not emit UV or Infrared Light.
- Ergonomic Mobile Stand and ergonomic use.
- Different language selections.
- Effective treatment.
- Ease of use and mobility.
- Can be placed top of incubator easily with suction cups
- It has 5 levels of LED lamp intensity.
- It has 5 levels of examination lamp intensity.
- The device has laser pointer to help center the infant for optimal positioning, ensuring more effective treatment.
- Optional Novos Billed Radiometer is recommended to check LED effectiveness.



## MAIN PURPOSE

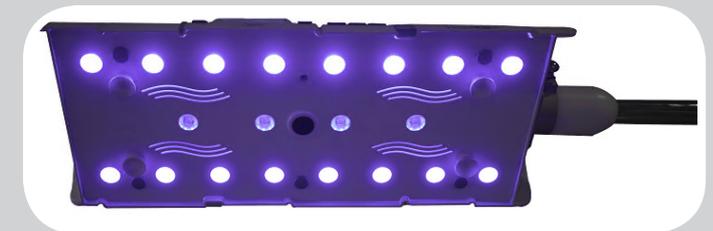
- Hyperbilirubinemia: Infant jaundice is a common condition, particularly in babies born before 37 weeks' gestation (preterm babies) Infant jaundice usually occurs because a baby's liver isn't mature enough to get rid of bilirubin in the bloodstream.
- Billed Maxi+ high intensity phototherapy with extended surface area treats infants with excellent performance and provides a faster therapy.



## Blue Super Led vs Fluorescent

- Less frequent side effects
- Less energy consumption
- Longer life span
- Lower costs

LED light source is more effective compared to fluorescent tubes for treatment of infants with high bilirubin levels. Considering less frequent side effects, less energy consumption, longer life span, and lower costs, LED phototherapy seems to be a better option than current conventional phototherapy.



Blue LED : 16 Lamps, White LED : 4 Lamps

## HOW TO USE

- User Friendly
- Mobile Usage



Meaning of Color Light Indicators

## 1 UNIT INCLUDED

- Main unit
- Mobile stand



Use on Top of the Incubator



Use with Baby Radiant Warmer



# Phototherapy Lamp Mobile Stand Billed Mini

Kemenkes RI AKL 20902220186



## HIGHLIGHTS & BENEFITS

- Effective treatment comes with a miniature design
- With our smart software, operation is easy as 1, 2, 3
- Cost efficiency with super LEDs
- Light weight, handheld, portable



## EFFECTIVE TREATMENT COMES WITH A MINIATURE DESIGN

In spite of its miniature design, Billed Mini+ has an effective treatment area to cover whole body of newborn. Complete skin surface illumination is possible even for the active, term newborns. For maximum efficiency, height adjustment tiltable head unit can be used to place the lamp unit at an optimal distance from newborn. Billed Mini+ ensures more than  $40 \mu\text{W}/\text{cm}^2/\text{nm}$  spectral irradiance at 35 cm distance and this intensity level meets the requirements for intensive phototherapy as stated by AAP\* guidelines. \* The American Academy of Pediatrics recommends that the irradiance for intensive phototherapy be at least  $30 \mu\text{W}/\text{cm}^2/\text{nm}$ .

## WITH OUR SMART SOFTWARE, OPERATION IS EASY AS 1, 2, 3

Novos Engineers developed smart software for Billed Mini+ to present absolutely simple operation for caregivers. You can adjust the light intensity at 5 different levels according to different patient's needs at the touch of a button. Light focusing is a significant feature that helps you to place the unit in correct position with best focusing to the body of newborn. Carrier has height adjustment feature and it can be made easily.

## COST EFFICIENCY WITH SUPER LED'S

With its state of art LED technology, Billed Mini+ ensures less heat generation, low power consumption, high light intensity and long lifetime. Long lifetime LED module means total 50.000 hours of treatment operation lifetime. High intensity shortens the treatment time and hospital stay.

## LIGHT WEIGHT, HANDHELD, PORTABLE

Billed Mini+ meets the clinician's need in excellence. With its ergonomical design, it can be used over a baby cradle, infant warmer, or directly on an infant incubator. You can easily detach the unit from its mobile stand and place it on top of an incubator without using any tools. Mobile stand provides the flexibility that you need for narrow spaces.

## 1 UNIT INCLUDED

- Main unit
- Mobile stand



Blue LED : 4 Lamps, White LED : 2 Lamps



Use on Top of the Incubator





# SEKARGUNA MEDIKA

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