

# We save your precious



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## Kangaroo KI 1000

Real Life Support Unit for Newborns

### Technical Specifications

#### Dimensions

Mattress dimensions	40 cm x 64 cm
Width	105 cm
Depth	64 cm

#### Characteristics

Power	220 VAC (±10%), 50-60 Hz
Tredelenburg	±12°
Air curtain	
Skin temperature monitoring for twin babies	

#### Temperature and System Alarms

Skin temperature alarm limits	± 0.5, ±1.0, ±1.5 (°C)
Air temperature alarm limits	± 0.5, ±1.0, ±1.5 (°C)
Skin probe disconnection/ failure	
Air circulation failure	
Power supply failure	
System failure	
Air Sensor Failure	

#### Servo- Active Humidity

Measurement range	0 to 100%
Reservoir capacity	1 liter
Refilling time	24h @ 85%
System accuracy	± 1.8 %
Display resolution	1% RH
Adjustment range	30 to 95% RH
Humidity alarm limits	± 5, ±10, ±15 (%)
Fill water alarm	
Sensor Failure Alarm	

#### Weighing Scale (Optional)

Weight limit	0 / 10000 g.
Display resolution	1 g
Accuracy	± 1 g

#### Environmental Requirements

Operating temperature	20°C-30°C room temperature
Storage temperature	0°C-60°C room temperature
Operating humidity	10-95% RH non-condensing
Storage humidity	10-95% RH non-condensing

#### Temperature Control

Air mode control range	20°C - 39°C
Skin mode control range	34°C - 38°C
Temperature resolution	0.1°C
Measurement accuracy (Skin/ Air temp)	0.2°C
Temperature increase	< 35 minutes

#### O<sub>2</sub> Servo Control (Optional)

Measurement range	18% to 100%
Control range	21% to 65%
Display resolution	1%
Control accuracy	±1%
Double O <sub>2</sub> Sensor	
Sensor Failure Alarm	
High/low oxygen concentration alarm	±3, ±5 (%)
O <sub>2</sub> /RH Sensor Module Displacement Alarm	

#### Order List

001 000	Kangaroo KI 1000 incubator ( with Servo humidity feature)
001 319	Inbed Scale
001 425	Height Adjustment
001 434	Mattress
001 295	Servo Controlled Oxygen System
100 161	Reusable Skin Probe
121 015	Reusable Skin Probe (Second Skin Probe for twins)

\* For order list of optional modules of Kangaroo KI 1000 incubator, please contact us.

#### Proven quality and 100% customer satisfaction

Having a very strict quality policy brought us 100 percent customer satisfaction. Novos will continue to design and manufacture high quality products for newborn care; all you have to do is just to focusing on your patients.

● NOVOS Medical reserves the right to make changes without notice in design, specifications and models.

● The quality management system at NOVOS Medical Systems is certified according to ISO 13485 and product is certified in accordance with Medical Device Directive (93/42/EEC)



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## Kangaroo Incubator has been designed to ensure a precise temperature control and stable microenvironment.

NOVOS Engineers kept in mind that a reliable microenvironment and a comfortable design are the most important values for fragile newborns and caregivers. Kangaroo incubator's intelligent software and microprocessor control unit integrated with advanced safety system allows you to concentrate on vital needs of your patients.

Continuous measurement of air and skin temperatures ensures a stable microenvironment for newborn at every point inside of the canopy. **Double Wall design** of hood supports keeping this stable microenvironment over newborn preventing radiative heat loss. So a stable temperature from head to toe is guaranteed with Kangaroo incubator.

Thanks to **TTSS-Target Temperature Surveillance System** that, Kangaroo Infant Incubator provides on advance protection for your fragile newborn.

Humidification works perfectly to prevent transepidermal water loss of tiny newborns. KI 1000 supplies a **stable thermal environment** with the required level of humidification.



**SmartWeigh™** feature will let you get the exact results of weight gain or loss of newborn at the bed side. With the SmartWeigh™ feature, you can guarantee precise weight readings at any point of the infant bed. You will be impressed with the easiness of **SmartTare™ System**.

**Kangaroo Infant Incubator** ensures clinicians to get **successful results** for the newborn development. **Servo controlled oxygenation** in **Kangaroo** Infant Incubator is another tool for clinicians to **guarantee** the exact levels of oxygenation required for fragile newborn. Trend analysis of servo oxygen will help clinician to follow the duration and level of oxygen supplied to newborn.

## User friendly interface and ergonomic design

KI 1000 has a built in LCD display. Adjustment of control parameters can be made easily on **user friendly** LCD colour touch screen. It is a comfort for users to follow control parameters, **real values** and trends on LCD display at the same time.



User friendly menu in Kangaroo KI 1000 gives you the comfort and speed during operation of the equipment. Intuitive control panel and attractive touch screen LCD display allows caregivers **easy access** to sophisticated functions. With a single touch it is easy to select and confirm control parameters.

## Comfort and ease of use

KI 1000 has continuously variable tilted bed from zero to twelve degrees for required positioning of newborn. Continuous tilting mechanism supports decreasing the noise level inside the canopy and minimal disturbance of newborn. So the result is **maximum** comfort for fragile newborn.



Design of hood allows **clear visibility** of newborn from different angles. Grommets and port holes support connection to ventilators and monitors.



Integrated X-ray cassette tray is easily accessible on front side of KI 1000. So there is no need to move newborn for **x-ray application**.



## Easy access to newborn

With KI 1000 it is **very easy** for caregivers to access newborn either from front or rear sides which makes operations much more **comfortable**. When it is necessary, two clinicians can perform operations on newborn at the same time. So, **easy access** to the newborn means less stress for both clinicians and newborn. Multiple access design of canopy also allows you freedom to position the incubator in NICU room.



## Configurable for different necessities of NICU's

KI 1000 is fully configurable with the optional modules of servo oxygen supply, inbed scale, integrated phototherapy, Easyuff t-piece resuscitator, height adjustment, integrated power sockets, drawers, IV pole, monitor shelf.

You can combine KI 1000 with Bilited Mini and Bilited Maxi for jaundice management. Hood design of KI 1000 allows NOVOS phototherapy devices to be easily placed on canopy while allowing perfect visibility of the newborn. Height adjustment provides clinicians easy access to newborns. **Servo Controlled Oxygen Module** guarantees the exact levels of oxygen prescribed by clinicians. Integrated power sockets enables other medical equipment to be connected easily on KI 1000.



Power Sockets



Height adjustment



Enough space for storage



Bilited Mini

# CERTIFICATE



## NOVOS TIBBİ CİHAZLAR SANAYİ VE TİCARET İTHALAT VE İHRACAT LİMİTED ŞİRKETİ

OSTİM OSB UZAYÇAĞI CADDESİ AYIK İŞ MERKEZİ NO: 82/B5  
YENİMAHALLE – ANKARA – TURKEY

with a scope of

**DESIGN, MANUFACTURE AND TECHNICAL SERVICES FOR  
PHOTOTHERAPY, INFANT INCUBATOR, INFANT RADIANT  
WARMER AND INFANT RESUSCITATION DEVICES**

Medical devices - Quality management systems - Requirements for  
regulatory purposes

*"Following elements of the standard are excluded"*

*" 7.5.1.3 " " 7.5.2.2 " " 7.5.3.2.2 " " 8.2.4.2 "*

## EN ISO 13485:2012

Certificate No : M 7759  
Initial Certification Date : 27 January 2010  
Certification Date : 11 October 2017  
Expiration Date : 28 February 2019

General Manager

Kiwa Certification Services Inc.

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*Certificate is valid till expiration date, subject to successful completion of periodical surveillance audits.*

Please contact above numbers for detailed information.

Last Modified: 11 October 2017 - R 05



Medical Device Q.M.S.  
TS EN ISO/IEC 17021-1

AB-0006-YS



TÜRKAK BDS NO  
YS-7C1D-DB5B



**EC Certificate**  
**Full Quality Assurance System according to**  
**Medical Devices Directive 93/42/EEC Annex-II Section 3**

**Certificate Number: 1984-MDD-09-005**

We hereby declare that an examination of the under mentioned full quality assurance system has been carried out following the requirements of the national legislation to which the undersigned is subjected, transposing annex II (with the exemption of section 4) of the Directive 93/42/EEC on medical devices. We certify that the full quality assurance system conforms with the relevant provisions of the aforementioned directive.

**Organization:**

**NOVOS TIBBİ CİHAZLAR SANAYİ VE TİCARET**  
**İTHALAT VE İHRACAT LİMİTED ŞİRKETİ**

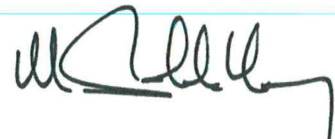
Ostim OSB Uzunyay Caddesi Ayık İş Merkezi B Blok No: 82/B5  
Yenimahalle, Ankara, Turkey

**Products:** Phototherapy device, baby radiant warmer, infant resuscitation device and infant incubator

The products defined at the enclosure which is the part of this certificate and contains one page.

The certificate is valid till expiration date, subject to successful completion of periodical surveillance audits. Please contact Kiwa for details.

<b>Report Number:</b>	M.2848.10
<b>Date of first issue:</b>	18 December 2009
<b>Date of last issue:</b>	11 October 2017
<b>Revision Number:</b>	09
<b>Expiry Date:</b>	10 October 2020



11 October 2017, Istanbul, Turkey

Head of Notified Body

Enclosure of the EC Certificate:

1/1

Full Quality Assurance System according to

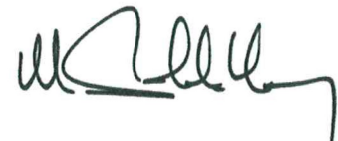
Medical Devices Directive 93/42/EEC Annex-II.3

Certificate Number: 1984-MDD-09-005, Revision Number: 09

Concerned medical devices;

Name of the product	Models
Phototherapy Device	BILISPHERE 360 BILISPHERE 360 LED BILICOT LED BILILED MINI BILILED MAXI NEOLED 360 NEOLED MAXI BILILED MAXI + BILILED MINI + NEOLED MAXI +
Baby Radiant Warmer	KR-1000 NEOCARE NR-1000
Infant Resuscitation Device	EASYPUFF
Infant Incubator	KI-1000 NEOCARE NI-1000 KI-900

Kiwa Certification Services Inc. is Notified Body under Council Directive 93/42/EEC concerning medical devices with identification number : 1984



11 October 2017, Istanbul, Turkey

Head of Notified Body