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# KR 1000

Infant Radiant Warmer



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NOVOS offers a combined warming bed. KR 1000 which is designed for different needs of a newborn in delivery room, emergency and NICU. This minimizes the number of intervention and reduces the stress as a result. Our KR 1000 model infant warmer comes with three operation modes to create the best thermal support, so that newborn can use their energy for growth rather than temperature stabilization. Optional modules and features provide caregiver easy access and utmost capability for a complete support of newborn for their different needs.

## Advanced Features

- Easy to use control panel with large and bright LED displays.
- Pre-Warm, Manual and Baby (Servo) operation modes for different purpose of use.
- Controlled heating of infant bed provides a warm welcome to the precious newborn by pre-warm mode.
- SmartSilence helps clinician to keep their hand hygienic and to prevent stress on newborn during any surgical intervention or medical examination by hands free silencing of audible alarms.
- 360° Rotating bed is a comfortable option for both the newborn and clinicians with the possibility of easily rotating the bed platform instead of changing their positions or repositioning the newborn.
- SmartTilt and SmartMemory let clinicians to apply trendelenburg and reverse trendelenburg positions just by pushing of a button.
- Warmer head hosts the most efficient heating system with ceramic heaters.
- Pivoting heater module provides less intervention thus less stress for newborn during X-Ray procedures.
- Digital Apgar timer of 1, 5, 10, 20 minutes for apgar scoring.
- Intelligent alarms for maximum patient safety.
- Large mattress and foldable side panels for easy access to newborn.
- Examination lamps for easy observation of newborn.
- Optional measurement of ambient temperature lets caregivers to obtain the ideal warming therapy.

## Optimal Heating and Maximum Patient Safety

KR 1000 infant warmer is equipped with an intelligent control panel with microprocessor for continuous optimal thermal support to newborn and easy usage for caregiver. Perfectly designed heater module guarantees an equal distribution of heat over the mattress securing equal heat distribution throughout newborn body. For optimal thermoregulation of newborn, KR 1000 measures newborn skin temperature with a dual thermistor skin probe. During operation, newborn skin temperature measured by dual thermistor skin probe to maximize safety and accuracy of newborn warming. For maximum patient safety, system checks itself and simultaneously informs the user by auto-pausing thermo regulation and intelligent safety precaution alarms.



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## USER FRIENDLY DESIGN

KR 1000 offers you the comfort and freedom that you need, while you give the best care to your precious patients.

### Control Panel

Easy to use control panel provides ability to make easy adjustments of the parameters. You can easily read all the necessary information on the large, bright LED displays.



### Examination Lamps

Two angled examination lamps provides a clear observation of newborn.



### SmartSilence and Intelligent Alarm System

Smart silence feature provides caregiver hand-free silencing of the alarm thus keeping clinician's hands hygienic during operation. Intelligent alarm system warns caregiver if an unexpectedly long operation time is passed without reaching target skin temperature in baby mode. Also in manual mode a similar intelligent alarm is triggered if the device is operated over safety limits.



### Pivoting Heater Module

Pivoting heater module allows easy integration of a mobile x-ray unit over the mattress, which means less intervention and less stress for newborn. Also thanks to pivoting heater module, doctors or clinicians can reach the patient for examination purpose easily.



### Foldable Side Panels

Easy patient access from three sides of the bed is ensured with foldable side panels.



### X-Ray Cassette Tray

X-ray cassette tray is accessible from front side of the bed.



### SmartTilt and SmartMemory Systems

Thanks to the SmartTilt feature, trendelenburg and reverse trendelenburg positioning of KR 1000 bed is handled by an electrical control system with a simple push of a button located on the front side of the bed unit. SmartMemory System offers two memory slots available for positioning the bed in two different angles with one touch easily.

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## FULLY CONFIGURABLE FOR MULTIPLE NEEDS

KR 1000 is designed to fulfill all requirements and needs with the following optional modules.

### 360° Rotating Bed

Optional 360° Rotating bed provides easy access to newborn during surgical operations. With this feature clinicians can easily rotate the bed platform instead of changing their positions or repositioning the newborn without any stress.



### Height Adjustment

It is possible to adjust height of the bed module to get a more ergonomical setup with an easy to use foot controlled electrical elevation system.



### Easypuff Infant T-piece Resuscitator

For newborn who needs respiratory support, Easypuff resuscitation module enables you to resuscitate newborn in a simple and safe way eliminating the risk of barotrauma or insufficient ventilation. You can precisely adjust the PIP and PEEP values, also ensure the ideal resuscitation is obtained.



### Air & Oxygen Flowmeter System

You can deliver Air & Oxygen to the newborn with the desired oxygen concentration using air & oxygen flowmeter system. This feature ensures protection of newborn from the hazards of oxygen surplus.



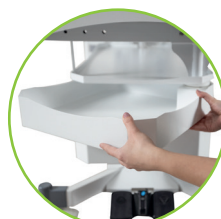
### Suction Module

Unique design of KR 1000 can be combined with two suction alternatives such as regular vacuum driven suction and medical oxygen driven venturi suction. Negative pressure applied can be easily adjusted and continuously monitored.



### SmartWeigh System

SmartWeigh system guarantees precise weight measurement of the newborn at any point of infant bed. No more need for an external scale.





## Technical Specifications

### Dimensions

Width	90cm
Depth	113cm
Height (standard )	177cm
Height (adjustable, optional )	177 cm 197 cm (max.)
Mattress Size	70 cm x 55 cm
Maximum Capacity of bed	10 kg
Mattress Height (standard)	93 cm
Mattress Height (with opt. bed module elevation)	93 cm–113 cm (max.)

### Characteristics

Supply Voltage	220 VAC (±10%)
Supply Frequency	50–60 Hz
Bed Tilting	±12°
Examination Light	LED 2x5W
Set Temperature (Baby Mode)	34–38°C in 0.1°C increments
Heater Output	0–100% in 10% increments
Skin Temperature Display	18°C–42°C
Temperature Measurement Accuracy	± 0.1°C
Hands Free Alarm Silence	10 minutes
Pre-Warm Mode w/ Air Probe Option	40% ≤ 25°C 30% > 25°C
Pre-warm Mode Standard Device	40% constant

### Easypuff T-Piece Resuscitation Module (Optional)

Peak Inspiratory Pressure (PIP)	5–70 cmH <sub>2</sub> O @ 8 lpm
Positive–end Expiratory Pressure (PEEP)	1–10 cmH <sub>2</sub> O @ 8 lpm
Adjustable Max. Pressure Limit (preset)	40 cm H <sub>2</sub> O
Flow Capacity	5 lpm–15 lpm
Airway Pressure Manometer	-20 to 80 cmH <sub>2</sub> O
Display Range	(±2% of full scale)

### Air & O<sub>2</sub> Blender (Optional)

O <sub>2</sub> Concentration Range	21–100% O <sub>2</sub>
O <sub>2</sub> Accuracy	±3% full scale
Flowmeter Range	0–15 lpm

### Air & Oxygen Flowmeter (Optional)

Wall Supply Pressure	3–5 bars
Cylinder Pressure	3–5 bars
Patient Gas Supply Flow Range	0–15 lpm

### 360° Rotating Bed (Optional)

### Suction Module (Optional)

Manometer Range	-200 to 0 mmHg
Safety Jar Capacity	500 ml
Input Gas Type	O <sub>2</sub> for Positive Pressure Driven Venturi Type Suction Vacuum for Negative Pressure Driven Regular Suction

### Weighing Scale (Optional)

Weighing Range	0–10 kg
Weight Display Resolution	1 g
Accuracy	±4 g

### Integrated LED Phototherapy (Optional)

Intensity	> 40μW/cm <sup>2</sup> /nm
Lamp Usage	50.000 hours

### Alarms

High Skin Temperature  
Low Skin Temperature  
High Temperature  
Control Baby  
Sensor Disconnection/Failure  
Axis Failure  
System Failure  
Power Failure

### Order List

KR 1000 Infant Radiant Warmer SmartWeigh  
Integrated Scale System  
Height Adjustment  
Bililed LED Phototherapy System with Flexible Arm  
Easypuff Integrated T-piece Resuscitator  
360° Rotating Bed  
Venturi Type Suction  
Regular Type Suction  
Low Flow Blender  
Air Oxygen Flowmeter System  
Humidifier Bottle  
Disposable Skin Probe  
Easy Sliding Drawer  
Monitor Tray  
IV Pole  
Cylinder Rack (E Type)  
Air Probe

# We Save your Precious

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 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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