

# KANMED<sup>o</sup>

## KANMED BABY WARMING SYSTEM

It is the soft warm water mattress that makes Kanmed Baby Warming System unique



Water at the right temperature provides optimal warming

37°C





*This is a Kanmed Baby Warming System in the standard version*

# Kanmed Baby Warming Philosophy



Only the best care is good enough for newborn and premature babies

A premature baby is sleeping peacefully and safely on a soft water mattress that is 37°C warm. The water mattress makes the baby feel like being next to the mothers' warm skin. Only a soft warm water mattress can substitute the warming efficiency of a modern incubator.

As soon as the baby is stable and the skin has matured the baby can be moved to the open Kanmed Baby Warming System. The Kanmed system has a friendly and less clinical look, reducing parents anxieties.

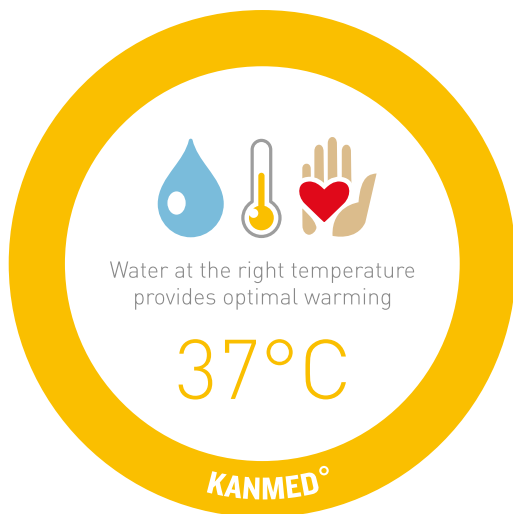
Parents can now easily get involved and practice the care of their newborn or premature baby. The important parent baby bonding can now begin. Breast feeding may start earlier and hospital stay may be reduced.

The Kanmed Baby Warming System is used in hospitals worldwide as a safe and cost effective alternative to an incubator. Thereby the amount of incubators required can be reduced creating value for the Neonatal Unit. The system is well documented in published medical studies.

*Please find literature reference list on last page*



# Benefits of Kanmed Baby Warming System



- It is an open ergonomic system that gives easy access to the baby for the nurses and parents.
- The optimal warming ensures growth rates in gram/day that are equal to or better than most incubators.
- The baby settles well on the Water Mattress as it immitates being on the mothers skin. Thereby heart rate, breathing rate, O<sub>2</sub> saturation and temperature become stable.
- It is safe and simple to use and very easy to keep clean.
- The investment and maintenance cost is low. The safe lifetime is long.

*Please find literature reference list on last page*



## In good care with the Kanmed Baby Warming System

### CASES:



#### **Soon he was 37°C**

Peter, a 2800 g baby was delivered by Caesarean section. Due to complications he became hypothermic at 35°C. His mother was not ready to carry out Kangaroo Care warming, so he was placed on the Kanmed Baby Warming System which had been pre-warmed and set to 37°C. Soon he was 37°C, very hungry and ready for breast feeding.

#### **A 1 000 g baby in the Kanmed Warming system**

Maria was born prematurely at 31 weeks gestation. She spent her first 2 weeks in an incubator and was then moved to the Kanmed Warming System. Her mother could now provide the majority of the care and begin the important parent-child bonding. Maria gained weight quickly on the warm water mattress and after nearly 6 weeks she was discharged weighing about 2300 g.

#### **Kangaroo Care, bonding and breast feeding suddenly became easy**

Alexander and his brother Philip were born weighing 1200 g and 1400 g. After a week in an incubator they were restless and unhappy which worried their parents. The staff decided to place them in the Twin Kanmed Baby Warming System set to 36,6°C. They quickly fell asleep in each other's company. Kangaroo Care, bonding and breast feeding became so easy.



# Kanmed Baby Warming System

**New, improved design!** Adapted for the baby, health care givers and parents.

Kanmed Baby Warming System consists of the Kanmed Baby Warmer and the Kanmed Baby Bed. Together the system becomes a modern and safe warming solution for the baby, the parents and the healthcare professionals.

All parts are of the highest quality and designed to ensure that the child receives an

optimal warming in a safe and open environment. The system makes it possible to move premature babies early out of the incubator and start the very important baby parent bonding and breast feeding. It is safe, user freindly, cost of investment is low and the system has a long lifetime.

## CONTROL UNIT AND MATTRESSES

The Control Unit powers a water tight low voltage Heating Pad that creates no magnetic and electrical fields. The Heating Pad in turn warms the different baby mattresses. The Water Mattress is suitable for all babies, especially the smallest. In case of power failure or internal transport the water loses very little temperature in the first hour.



The Control Unit is easy to use and understand. A clear display shows when the mattress temperature is correct. Any handling or technical error will create an alarm.

With the same Heating Pad you can warm 3 different mattresses.

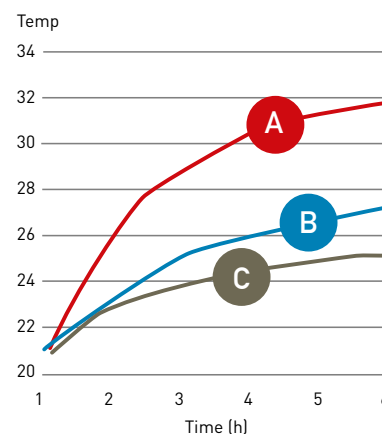


**Water Mattress:**  
All babies from 1000 g

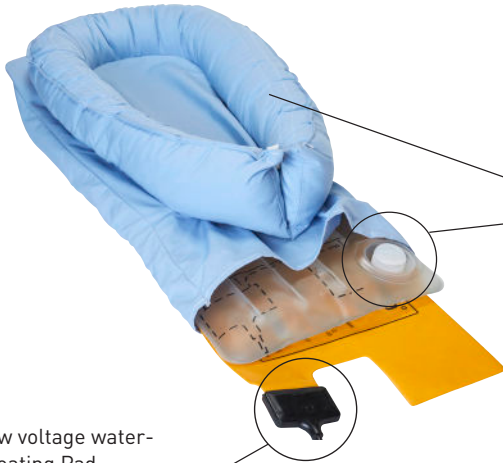
**Gel Mattress:**  
Near Term babies from 1500 g

**Foam Mattress:**  
Term babies and for comfort heating

To estimate the warming efficiency a plastic bottle with 500 ml of water was placed on each of the mattress types when they were in steady state at 37°C. The bottle was covered with a double layer of cotton towel. The temperature rise in the water was then recorded. As the diagram shows, the Water Mattress has the highest energy transfer and is therefore the most efficient warmer.

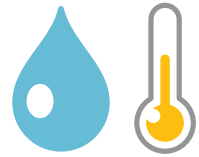


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Safe low voltage water-tight Heating Pad.

The Baby Nest can be adjusted to create a snug sleeping place with clear boundaries. The Water Mattress is easy to fill with ordinary tap water. A water conditioner keeps the water free from bacteria and algae.



TWIN BED VERSION  
ALSO AVAILABLE



The Tent protects from draughts, light and visual overstimulation.

On the rail you can hang a hand disinfection bottle other accessories and the Warming Control Unit.

Unique drop down handling of the side walls. Just press them down instead of folding out.

The Bed Tray can be lifted out for easy and proper cleaning.

Storage Boxes that can be swung out for easy access (One box included as standard).

Height adjustment foot pedal that can be placed left, right or in the front.

Big/sturdy wheels with brakes.



Water at the right temperature provides optimal warming

37°C

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More than 10 000 units in use worldwide  
that have warmed more than 2 million babies

REFERENCES:

PH Gray et al, University of Queensland, Australia. Cot nursing a heated water filled mattress and incubator care. (2004). Acta Paediatrica 93:308-310 2004-03-18. Prevention of Neonatal Cold Injury in Preterm Infants. Ragnar Tunell. Ass. Professor emeritus Stockholm.

The Cochrane Collaboration. PH Peter Gray and Vicki Flenady. Cot nursing versus incubator care for preterm infants.

Acta Paediatric 82:930-3. Ihsan Sarman, Ragnar Tunell, Lena Västberg, Ulla Carlquist, Gülay Can and Derya Toprak. Mothers' perception of their preterm infants treated in an incubator or on a heated water field mattress.

Kanmed is a Swedish company specialising in Medical Patient Warming Products. You will notice that the Kanmed products are innovative, efficient and different from the main stream. Kanmed products are manufactured in Sweden and each product is designed and made to the highest possible quality standards.

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