



# Prethermo

## Newborn Mobile Warming Swaddling Blanket



### OUR NEWBORN WARMING TECHNOLOGY

Hypothermia is a serious health problem that threatens the life of the newborn baby, since they cannot provide temperature control after birth. Cold environments, delivery rooms/operating rooms and transport conditions cause a quick decrease in the body temperature of the newborn.

Preterm low weight infants and unhealthy newborns are at greater risk of developing hypothermia than normal ones, due to some features such as large body surface area for weight, low fat level, thin skin and inability to sweat. Newborns also lose body heat quickly during operations. Therefore, babies at risk need to maintain their body temperature after birth and during transports.

Newborn mobile swaddling blanket with heating system; **PreThermo** is designed to prevent the development of hypothermia in infants. Our Patient Warming Systems include all electronic innovations made by our company's engineers with the latest technology of carbon-fiber and microprocessors. The time to reach the set temperature takes about 3-15 minutes, with  $\pm 0,1$  degree adjustment up to  $39^{\circ}\text{C}$ . With skin probe, body temperature can be monitored. Battery provides up to 4 hours of mobile use during transfers. Our newborn swaddling blanket provides a comfortable and safe heating environment by wrapping the whole body of the baby with its structure equipped with a sensitive sensor system.

#### Where to use PreThermo?:

- When the baby is born, during the transfer of the baby from the delivery room to the neonatal intensive care unit,
  - During newborn operations and post-op wake up,
  - During the transfer of the baby to other units in the hospital,
  - During transfers between different hospitals,
  - With births in rural areas and where the weather conditions are cold, during the transfer of the baby to the hospital in the regions,
  - Mother breastfeeding her baby/newborn which is being treated in an incubator,
  - In order to prevent infant deaths caused by hypothermia during search and rescue operations in disaster situations,
- In cold weather conditions, our swaddling blanket is also used in the incubator, as the Transport incubators cannot be enough, with late heat up late and it is difficult to maintain their temperature.

**Assoc.Prof.Seda ÇAĞLAR**  
Istanbul University-Cerrahpasa,  
Florence Nightingale Nursing Faculty,  
Child Health and Diseases Nursing Department  
Faculty Member: Assoc.Prof.Seda ÇAĞLAR



Assoc.Prof.Seda ÇAĞLAR

## Our Advantages

- ✂ Quick Warming
- ✂ Transport Option with Battery
- ✂ High Level Safety
- ✂ Comfortable & Easy to Use
- ✂ Easy to Clean
- ✂ Reusable and Disposable covers
- ✂ Silent & Lightweight
- ✂ Monitoring Body Temperature
- ✂ Low voltage for safety -9 volt
- ✂ 3 different sizes

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### TECHNICAL SPECIFICATIONS

#### POWER

Power Input: 100 - 240 V AC - 50 HZ / 60 HZ

W-100 (Control Unit): 9V DC 30VA

#### TEMPERATURE OUTPUT RANGE

30° C to 39° C in steps of 0.1° C. High Temperature Safety Alarm at 40° C

TYPE	SIZE	WEIGHT	DESCRIPTION
<b>Control Units:</b>			
W-100	128x90x34 mm	300 gr	With Battery
<b>Swaddling Blanket:</b>			
HMG-40BK	40x65x2 cm 48x75x2 cm 55x80x2 cm	700-1100 gr	Neonatal

- \* Our Swaddling Blanket can be produced in 3 different sizes, provided that the size of the heating element in the blanket remains constant.
- \* The Blanket provides up to 4 to 5 hours of mobile use. The charging time of empty batteries is approximately 3 hours.
- \* Our Swaddling Blanket is made of waterproof and easy-to-clean polyurethane material. **We have disposable and reusable cover options.**
- \* Our products are equipped with a **TWO-STAGE SECURITY** system.
- \* It warns the user with its advanced alarm system, the +, - buttons can be pressed simultaneously to silence the alarm and continue to set.

#### ALARMS

**Pad Alarm :** Activates when the connection between the control unit and the mattress/stock is lost.

**High temperature alarm:** If the measured temperature exceeds 40°C, the device cuts off the heating and gives an audible and visual alarm.

**INOP Alarm:** Activates when the control unit not heating the pad over 30 ° C for 10 minutes.

**Deviation Alarm:** Activates as a result of not maintaining the pad surface temperature at the set temperature level of more than  $\pm 1$  °C.

**Low Battery Alarm:** Activates in case the control unit runs out of charge.

#### COMPLIANCE

EN60601-1 Type BF

EN60601-1-2 Electrical Safety Requirements for medical devices

93/42/EEC Medical Device Directive, Class IIb. 2004/108/EC EMC Electromagnetic Compatibility

EN 14971 Medical Devices- Application of risk management

EN 15223-1 Symbols used for labelling of Medical Devices

EN 60601 -1-35 Requirements for the basic safety and essential performance of Heating Devices

EN 20417

#### ENVIRONMENTAL

Ambient Temperature (Operating) -10°C / + 40°C

Storage Temperature -10°C / + 55°C

Humidity : % 30 - % 70

HMG.BR.002

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CE 2292

 **HMG MEDİKAL**

**HMG Medikal Sanayi ve Ticaret Ltd.Şti**

Eğitim Mah.Şirinyuva Sk.

No: 1/B Kadıköy-İSTANBUL

Tel: 0090 216 336 27 64

[info@hmgmedikal.com](mailto:info@hmgmedikal.com)

[www.hmgmedikal.com](http://www.hmgmedikal.com)