MEDWARM



Neonatal
Patient Warming Systems

A newborn baby can have difficulty protecting its' core body temperature as their bodies and internal organs are not yet fully developed. Neonates and especially premature babies must be well warmed up to protect their core body temperature and avoid hypothermia after birth.

OUR NEONATAL PATIENT WARMING TECHNOLOGY

Our neonatal patient warming systems use state of the art technology and the latest developments in **carbon fiber materials** and microprocessors to avoid hypothermia in **neonatal intensive care departments** and **maternity wards**. Our neonate warming systems effectively provide a warm and comfortable environment by stabilizing or raising the peripheral temperature of the neonate patient who carries the risk of hypothermia. Our technology is also X-RAY translucent and can be used throughout operations where X-RAYs are used.



Baby Swaddling Blanket

COMFORTABLE, SAFE AND EASY TO USE

Our neonatal products include; swaddling blankets, and neonatal mattresses. All our systems operate on low voltage requirements (24 Volts DC – 24 Volts AC) which is cost efficient and technically safe for neonatal patients and operators. Our mattresses and blankets can reach the desired temperature within **5-7 minutes**. Swaddling blankets provide a comfortable and safe warming environment for the baby through a sensitive sensor system wrapping the baby's whole body .

Swaddling blanket models can be used during external hospital transfers together with incubators as well as radiant warmers and open neonatal beds to provide better warming especially during cold weathers. Blankets can be used for swaddling or open under the neonatal patients as required.

Our neonatal transport models can also be used during internal hospital transfers and in ambulances. They provide great comfort and convenience while the babies are transported from the delivery room to the maternity ward. During cold weathers, our swaddling blankets provide a warmer and healthier atmosphere when used in combination with transport incubators as it may take a while for the transport incubator to reach the target temperature and maintain that temperature level for longer periods of time. They are also suitable for usage during incubator disinfections when the baby is taken out of the incubators for cleaning and disinfection purposes.

Our transport models can run **on their batteries for 4-5 hours** without requiring a constant power connection. They are also recharged back to their full capacity in around 4 hrs. All our neonatal mattresses and blankets are covered with light, soft and healthy PU (Polyurethane) which is completely sealed and water proofed against all liquids. They are also very easy to clean and disinfect. We also offer a wide range of **disposable and reusable cover options.**

Medwarm neonatal patient warming systems are installed with a DUAL SAFETY feature. Each system is controlled by two separate micro processors; one available in the control unit and the other on the mattress/blanket card. Our advanced alarm system warns operators when required and includes functions such as a silent button to silence the alarm and continue with the set temperature functions.



Our Advantages

- Short Warming Times
- Transport Option with Battery
- High Level Safety
- Comfortable & Easy to Use
- Easy to Clean
- Silent & Lightweight
- Monitoring Body Temperature
- Affordable Prices

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TECHNICAL SPECIFICATIONS

POWER

Control Units: Power Input : 220 V AC - 110 V AC 50 HZ / 60 HZ

W-500D	: 350 Watt 24 Volt AC	W-150T(Large)	: 300 Watt 24 Volt DC
W-300	: 350 Watt 24 Volt AC	W-150T(Small)	: 90 Watt 24 Volt DC
W-150	: 150 Watt 24 Volt DC		

TEMPERATURE OUTPUT RANGE

30° C to 39° C (90° F to 104° F) in **steps of 0.1° C**. High Temperature Safety Cut Off Point at 41° C (109° F)

TYPE	SIZE	WEIGHT	DESCRIPTION
Control Units:			
W-500D	187x282x87 mm	5,8 kg	Dual Channel
W-300	187x282x87 mm	5,5 kg	Single Channel
W-150T (Large)	187x282x87 mm	4,4 kg	With Battery
W-150T(Small)	187x168x87 mm	2,3 kg	With Battery
Warming Mattresses:			
IM-60MS	60x35x2 cm	0,76 kg	Neonatal
IM-55M	55x30x1 cm	0,62 kg	Neonatal
Blankets:			
IM-65BK	65x70 cm	1 kg	Neonatal
IM-55BK	55x50 cm	0,68 kg	Neonatal

Extension Cable Length: 2,5 mt **Pad Cable Length:** 1 mt

ALARMS

Power Alarm: Activated if power is cut off or if the power cord is disconnected when the unit is turned on
Pad Alarm: Activated when the connection between the controller and the mattress is cut off.
System Alarm: Activated in case of a technical problem.
High Temperature Alarm: High temperature alarm is sounded once the temperature goes over the system limit of 42°C
High Deviation Alarm: If the temperature goes +1,5°C over the set temperature, high deviation alarm is sounded.

COMPLIANCE

EN60601-1 Type BF
EN60601-1-2 Electrical Safety Requirements for medical devices
93/42/EEC Medical Device Directive, Class IIb
2006/95/EC LVD Low-voltage Directive
2004/108/EC EMC Electromagnetic Compatibility
EN 14971 Medical Devices- Application of risk management
EN 980 Symbols used for labelling of Medical Devices
EN 80601-2-35 Requirements for the basic safety and essential performance of Heating Devices

ENVIRONMENTAL

Ambient Temperature (Operating) 15° C - 40° C
Ambient Temperature (Storage) -10° C - 55° C
Relative Humidity %30 - %70

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