

TECHNICAL SPECIFICATIONS

POWER

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

W-500D : 520 Watt 24 Volt AC

W-300 : 520 Watt 24 Volt AC

Power Input : 110 V AC - 240 V AC 50 HZ / 60 HZ

W-150TL : 270 Watt 24 Volt DC (for Adult patient)

W-150T : 90 Watt 24 Volt DC (for Neonate patient)

TEMPERATURE OUTPUT RANGE

30° C to 40° C in steps of 0,1° C

TYPE	SIZE	WEIGHT	DESCRIPTION
Control Units:			
W-500D	185x282x84 mm	5,6 kg	Dual Channel
W-300	185x282x84 mm	5,5 kg	Single Channel
W-150TL	185x282x84 mm	4,25 kg	With Battery
W-150T	172x185x84 mm	2 kg	With Battery
Warming Mattresses:			
IM-190MS	190x50x3 cm (with foam)	4 kg	Large size
IM-150MS	150x50x3 cm (with foam)	3,3 kg	Medium size
IM-120MS	120x50x3 cm (with foam)	2,25 kg	Medium size
IM-80MS	80x50x3 cm (with foam)	1,9 kg	Small size
IM-190M	190x50 cm	2,75 kg	Large size
IM-150M	150x50 cm	1,9 kg	Medium size
IM-120M	120x50 cm	1,75 kg	Medium size
IM-80M	80x50 cm	1,25 kg	Small size
IM-180MS	180x55x10 cm	5 kg	Stretcher size
Blankets:			
IM-190B	190x100 cm	2,3 kg	Large size
IM-180BAS	180x45 cm	1,1 kg	Arm-Shoulder warming
IM-150BAS	150x45 cm	0,85 kg	Arm-Shoulder warming
IM-180B	180x80 cm	2,0 kg	Large size
IM-150B	150x80 cm	1,6 kg	Medium size
IM-120B	120x80 cm	1,1 kg	Medium size
IM-85DB	85x55 cm (x2)	1,4 kg	Small size
IM-80B	80x70 cm	0,75 kg	Small size
Extension Cable Length: 2 mt Pad Cable Length: 1 mt			

ALARMS

Power Alarm: It is activated when the system is disconnected from the electricity supply. This alarm is valid for W-300 and W-500D control units.

Pad Alarm: Activates when mattress/blanket or sensors are disconnected or short-circuited.

High Temperature Alarm: It is activated in case of high temperature (41.1 °C) on the mattress/blanket surface (40.1 °C for baby products).

Temperature Deviation Alarm: It is activated when the temperature value of the pad is not maintained at the set level, resulting in a deviation of more than ±1 °C.

Inop Alarm: It is activated if the mattress/blanket is not heated during 10 minutes after the system is turned on.

Low Battery Alarm: It is activated when the battery level is low in models with battery.

This alarm is valid for W-150TL and W-150T control units.

COMPLIANCE

EN 60601-1	EN 60601-1-2
EN 62366-1	EN 60601-1-8
EN 62304	EN 60601-2-35
EN 14971	EN ISO 13485
EN ISO 20417	EN ISO 15223-1
EN ISO 10993-1	EN ISO 60601-1-6
93/42/EEC	2004/108/EC

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 **MEDWARM**



For Better
Clinical Care

**PATIENT WARMING
SYSTEMS**



 **MEDWARM**
CE 1023

Why Should You Choose Patient Warming Systems?



IMPORTANCE OF PATIENT WARMING



Hypothermia is a condition in which body's regular core temperature of 37.0°C drops below the required temperature of 35.0°C for normal metabolism and body functions. The primary causes of perioperative hypothermia include; administration of anesthetic drugs and liquids, enduring cold temperatures maintained in most operating rooms for extended periods of time and the biological inability of neonates and elderly patients protecting their core body temperature under these conditions.

Perioperative hypothermia is associated with an increased rate of negative outcomes such as; wound infections, cardiac disturbance as well as delayed emergence from anesthesia and increased mortality rates due to all outlined above causes.

The good news is that preventing hypothermia can be simple, effective and affordable with **MedWarm Patient Warming Systems**. With its' wide range of mattresses and blankets at various sizes and dimensions, **MedWarm Patient Warming Systems** provide a high number of benefits both to patients and clinical personnel in their fight against hypothermia. According to clinical research, maintaining a normal body temperature (normothermia) has been shown to reduce the risk of complications and costs associated with unintended hypothermia by reducing the rate of post-operative wound infections, decreased likelihood of post-operative myocardial infarction, shortened hospital length of stay and lower mortality rates.

OUR PATIENT WARMING TECHNOLOGY

Our patient warming systems use state of the art technology and the latest developments in carbon fabric materials and microprocessors to avoid hypothermia in **operation rooms, neonatal intensive care departments, maternity wards** as well as **orthopedic departments** and through stabilizing or raising the peripheral temperature of the patient carrying the risk of hypothermia effectively to provide a warm and comfortable environment. Our efficient, professional and safe carbon fabric technology is also X-RAY translucent and can be used throughout operations where X-RAYs are used.

- ADULT & PEDIATRIC PATIENT WARMING SYSTEMS
- NEONATAL PATIENT WARMING SYSTEMS
- PATIENT WARMING SYSTEMS WITH BATTERY



ADVANTAGES OF OUR PATIENT WARMING SYSTEMS



THE BEST HEATING PERFORMANCE: Our mattresses and blankets can reach 40°C within **3-15 minutes** giving us a great advantage over competing products available in the market as well as providing the clinical personnel flexibility and ease of use during operation. The ability to set and manage the target warming temperature within 0.1°C increments also allows for additional sensitivity. (eg. 36,8°C, 37,3°C, 38,6°C etc.)



HIGH LEVEL SAFETY: Medwarm 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. These two micro processors control the heating system independently. This way, even in the remote possibility that one of the micro processors fail, the other micro processor would act as a fail safe and protect the whole system from any kind of overheating. The maximum target temperature is set at 41°C and the heating process is cut off automatically once the real temperature reaches this level. Each mattress and blanket contains up to 10 sensors which measure the real temperature at all times on the mattresses/blankets and provide a completely safe temperature management system for all our products. Our portable test devices also provide extensive troubleshooting and testing abilities for our distributors and technical service personnel.



COMFORTABLE AND EASY TO USE: Through the visco-elastic foam used inside the warming mattresses, we prevent decubitus ulcers which may occur on patients with prolonged stay during operations or recovery. Soft and light weight blankets can easily cover the patient and provide a comfortable warming experience. Carbon fabric material used as the heating element in our mattresses and blankets allows for complete homogenous warming. Our systems work silently with digital LCD displays to adjust/view set and measured temperature values. All these features provide a high level of functionality and ease of use for the clinical personnel.



EASY TO CLEAN: All our products are completely sealed and water proofed against all liquids. They are also easily cleanable. We offer a wide range of **disposable and reusable covers** which are made from light, soft and healthy PU (Polyurethane). Polyurethane is permeable to air and vapor and provides protection against all liquids.



BATTERY OPTION: Our transport systems can provide warming without requiring a constant power connection on its' own battery for around **3-4 hours**. This unique feature makes our product one of its' kind in the market by playing an important role in saving lives of many injured patients with its' ability to provide warming during patient. Our transport warming mattresses and blankets provide the ability to warm patients on the spot during hospital transfers or at the site of various accidents on the land or even in the sea by increasing the patients peripheral temperature and avoiding hypothermia and additional complications that come with it.

ENVIRONMENT FRIENDLY:

All our systems operate on low voltage requirements (12 Volts DC – 24 Volts AC) which is cost efficient and technically safe for patients and operators. As our systems are re-usable, the disposable emissions are kept at a minimal level hence protecting the environment. Complies with the WEE directive.



WIDE VARIETY OF PRODUCTS:

All our mattresses and blankets are available in a wide variety of sizes and dimensions for adults, pediatric patients and neonates to answer all our clients' clinical needs and requirements. Additional accessories such as the control stand, wall hanging unit, IV support bracket and extension cables at various lengths provide extensive flexibility to clinical personnel during operation.



ABILITY TO MONITOR PATIENT'S BODY TEMPERATURE:

Medwarm patient warming systems also provide the option to measure and monitor patient's body temperature during warming.



AFFORDABLE PRICES:

All our products are very well priced and extremely affordable in comparison to other products available in the market.

