



Warm6100



Professional Design for Operating Room

- ◆ Non-metal heating material helps the quality of imaging examination during operation.
- ◆ Easy to run, no noise.
- ◆ No air disturbance, compact size, no effect on surgical environment and surgical site.
- ◆ Easy to clean and disinfect the surface, professional design for operating table.
- ◆ Different configuration for general and special surgeries.



Economic & Environment Protection

- ◆ Lower power consumption, save electricity, lessen carbon emission.
- ◆ Silent running, no noise pollution to environment.
- ◆ Effectively preventing hypothermia, shorten hospitalization for patients, improve bed-ward turnaround time, and reduce hospital operating cost.

Configuration:

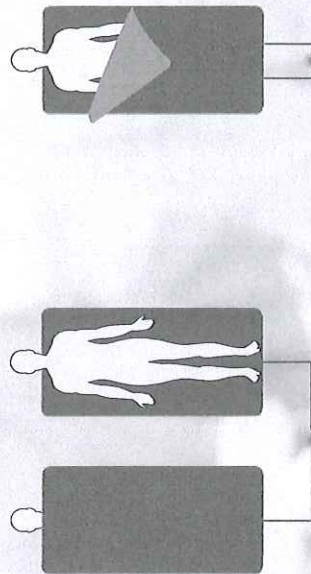
Mattress	Warm 5190	1900mm × 520mm × 30mm (Standard)
	Warm 5120	1200mm × 520mm × 30mm (Optional)
	Warm 5100	1070mm × 520mm × 30mm (Optional)
Blanket	Warm8160	1660mm × 850mm × 15mm (Full body) (Optional)
	Warm8180	1800mm × 400mm × 15mm (Shoulder) (Optional)
	Warm8100	1000mm × 700mm × 15mm (Regional) (Optional)

Warm6200



Intelligent Control Technology

- ◆ Automatic recognizing and managing the temperature of the connecting heating system.
- ◆ One control unit can work with two heating system simultaneously.
- ◆ Auto saving each alarm information for history review.
- ◆ Humanized help mode for solving clinical problem in time.



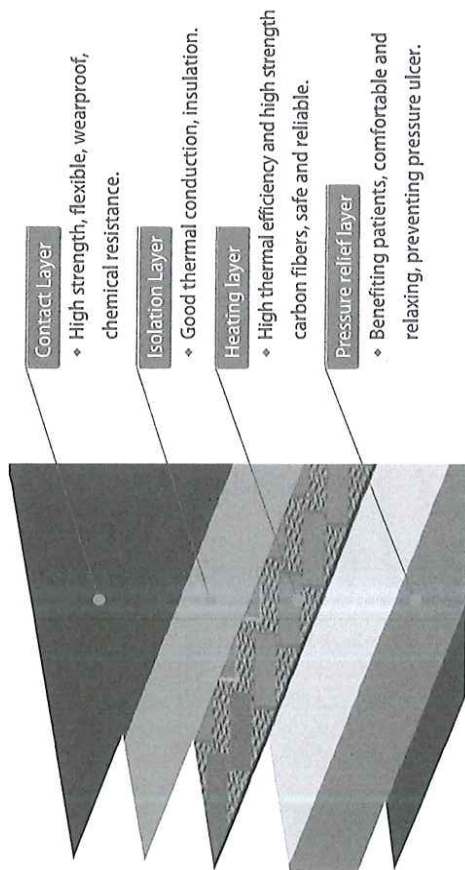
In recovery room or ward, one control unit can work for two patients respectively.

In operating room, one control unit can work with two heating systems under and over patient simultaneously.

Configuration:

Mattress	Warm 5290	1900mm × 520mm × 30mm (Standard)
	Warm 5220	1200mm × 520mm × 30mm (Optional)
	Warm 5200	1070mm × 520mm × 30mm (Optional)
Blanket	Warm8260	1660mm × 850mm × 15mm (Full body) (Optional)
	Warm8280	1800mm × 400mm × 15mm (Shoulder) (Optional)
	Warm8200	1000mm × 700mm × 15mm (Regional) (Optional)

Heating Mattresses:



Features:

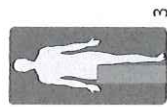
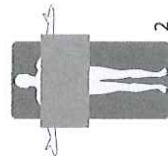
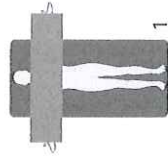
- ♦ Low voltage operation - It ensures the safety of both patients and users.
- ♦ Waterproof - It is no hazard if there are any liquid on heating system.
- ♦ Flexible carbon polymer heating technology - It features of fast heating, high thermal efficiency, high strength and long service life.
- ♦ Even heat distributing - It gives uniform heating across the whole surface and temperature fluctuation is small as well.
- ♦ Pressure-relief layer with high elasticity - It provides larger surface contact area and higher conductivity, and offers high efficient warming effect for patients. It plays very important role on preventing pressure ulcer.
- ♦ The mattress surface is easy to clean, specially design for operating table.
- ♦ Three sizes of mattress are optional, applicable for general operation and special operation.



Warming Blankets:

Variety of sizes are suitable for all kinds of operation position.

- ♦ Full body blankets are used in preoperation to Lessen heating lose for decreasing perioperation hypothermia, and also in postoperation to shorten recovery time for much more comfortable.
- ♦ Different combination of shoulder blanket and regional blanket can be used in operations like abdominal, thoracic, spine, vascular and breast, etc.



1. Shoulder blanket
2. Regional blanket(Torso)
3. Regional blanket(Leg)
4. Full body blanket

Features:

- ♦ Fast heating, high thermal efficiency, high strength and long service life.
- ♦ Low voltage operation, it ensures the safety of both patients and users.
- ♦ Waterproof, it is no hazard if there are any liquid on heating system.
- ♦ It gives uniform heating across the whole surface and temperature fluctuation is small as well.



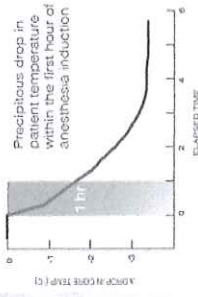
Functions:

Effectively preventing hypothermia and complications

Precipitous drop in patient temperature after anesthesia induction easily leads to hypothermia. During anesthetic and perioperative period, hypothermia and its complication would have adverse effect on patients:

- ◆ Adverse effect on cardiovascular system
- ◆ More risk of surgical site infection (SSI)
- ◆ Increasing bleeding and blood transfusion
- ◆ More risk of phlebotrombosis
- ◆ Incidence rate of shivering is increased by 40%
- ◆ Debasing oxygen transporting
- ◆ Adverse effect on central nervous system

TYPICAL PATTERN OF HYPOTHERMIA DURING GENERAL ANESTHESIA



In the year of 2015, CMDA's Chinese Association of Anesthesiologists presents in "Anesthesia management experts consensus for postoperative rehabilitation": the most effective measure to prevent perioperative hypothermia is actively warming patient before operation. Using warming mattress to prewarm patient before entering operating room can increase preoperative core temperature.

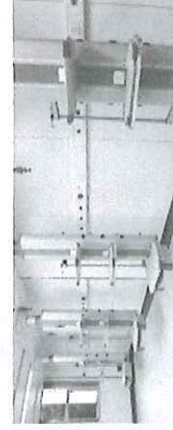
Perioperative temperature can be retained by:

- (1) keeping environment warm;
- (2) warming blanket;
- (3) warming mattress;
- (4) warming infusion liquid;
- (5) warming flushing fluid.

Patient warming system can effectively prevent the mentioned perioperative hypothermia.

Applications:

Mainly used in operating room and ICU.



Product features:

- ◆ Heating system is 24V, safe for patient and medical staffs.
- ◆ Waterproof, it is no hazard if there are any liquid on heating system.
- ◆ Software, hardware and mechanical cutoff to avoid overheating.
- ◆ Assured safe

Safe



Silent

- ◆ Silent, no noise.
- ◆ No airborn contamination to laminar air, lower SSI risk.
- ◆ Flexible carbon fiber heating technology, no effect on x-ray during operation.
- ◆ Harmonizing with environment

Saving

- ◆ Green developing
- ◆ Low power consumption, save on electric bill and reduce carbon footprint.
- ◆ Effectively preventing hypothermia; it can shorten hospitalization, improve bed-ward turnaround time, and reduce hospital operating costs.

Smart

- ◆ Considerate service
- ◆ Intelligent temperature control technology, even heating contact layer, points temperature difference is less than 1°C.
- ◆ Real time monitoring heating status, alarm for abnormal, ensuring safety.
- ◆ Ergonomic design, easy usage considering.

Main Parameters:

Control unit	Model	Warm6100	Warm6200
	Channels	Single	Dual
	Heating mode	Automatic, Manual	
	Control range	Automatic: 33°C-39°C, in step of 0.1°C Manual: 0%-100%, in step of 10%	
	Max surface temperature	Not exceeding 40°C in normal condition and not 41°C in single fault condition.	
	Monitoring	Surface temperature, body temperature	
	Alarms	Power failure, overtemperature, sensor failure, temperature fluctuation, system failure	
	Alarm log	No	Yes
configuration			
	Mattress	Warm5190, Warm5120, Warm5100	Warm5290, Warm5220, Warm5200
	Blanket	Warm8100, Warm8160, Warm8180	Warm8200, Warm8260, Warm8280
	Body sensor		25°C~45°C, tolerance $\pm 0.3^{\circ}\text{C}$
Regulations			
	EN 60601-1:2006/AC:2013		
	EN 60601-1-2:2015		
	EN 60601-1-8:2007/AC:2010		
	EN 60601-2-35:2009		

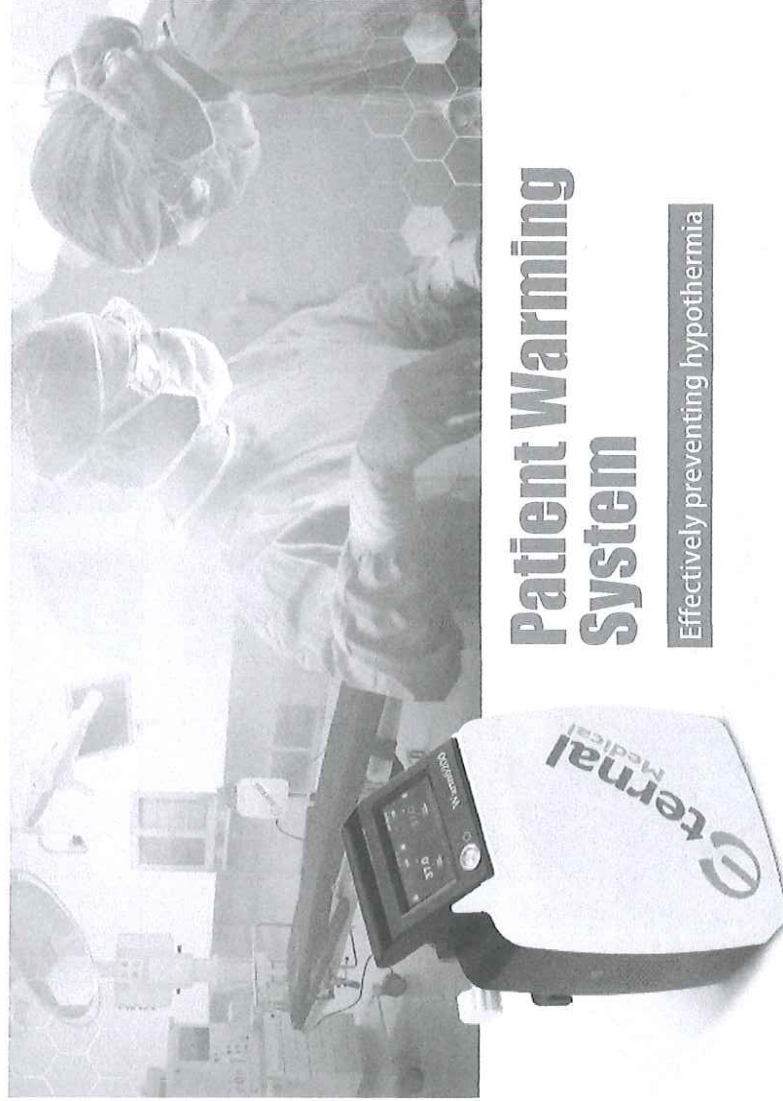
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Eternal
Medical



Patient Warming System

Effectively preventing hypothermia