Medi-Therm®

Hyper/Hypothermia System

CONDUCTIVE TEMPERATURE THERAPY SYSTEM

The optimal choice for patient temperature regulation





- Precise cooling and warming
- Maintains normothermia
- Reduces fever
- Automatic mode for reduced nurse intervention
- Provides both rapid cooling and controlled rewarming
- Complete system with Rapr·Round™ body wraps

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Gaymar®

Your patients. Our commitment.

Medi-Therm®

The support you deserve. The innovation you need.

You're dedicated to medical excellence. We're dedicated to supporting you with the latest in patient temperature management solutions.

A superior alternative to traditional temperature management techniques, the Medi-Therm® — used with Rapr·Round™ body wraps — offers you precise control for managing both normothermia and therapeutic hypothermia.

Advanced proprietary software provides precise control to achieve set points. The additional controls reduce nursing intervention time.

Medi-Therm addresses key issues that are specific to your needs:

Clinical

- Controls for precise cooling and warming
- Maintenance-free, rate-controlled rewarming
- Cools febrile patients
- Helps maintain perioperative normothermia
- Easy patient access
- Less risk of infection — non-invasive, catheter-free
- Dual over-temperature systems
- Rapid initiation — staff can commence therapy in minutes

Economical

- Cost-effective system to meet your budget needs
- Automated operation requires less nursing intervention
- Two-year limited machine warranty
- Five-year limited prorated compressor warranty

Technical

- Intuitive control panel for enhanced ease of use
- Multiple modes for both cooling and heating
- Designed for nurse-managed protocols
- State-of-the-art microprocessor control
- Separate heating and cooling reservoirs for rapid thermal response

Gaymar®



Induced mild hypothermia: A vital breakthrough in temperature management

High mortality rates among cardiac arrest patients have prompted physicians to **re-evaluate temperature management therapy options.**

Randomized, controlled clinical trials show that induced mild hypothermia used in resuscitating cardiac arrest patients results in reduced possibility of neurological damage, shorter ICU and hospital stays, lower mortality rates and better outcomes.[1, 2]

More care facilities are considering and implementing a new approach in temperature management therapy — **induced mild hypothermia.**

How It Works

Many patients who have return of spontaneous circulation (ROSC) after out-of-hospital cardiac arrest eventually have a poor neurological outcome due to hypoxic-ischemic brain injury.[3] Induced mild hypothermia appears to limit damage to the brain cells by decreasing cerebral oxygen demand and reducing the brain's metabolic activity.[1]

American Heart Association (AHA) Guidelines [4]

AHA's most recent treatment guidelines include the following recommendations:

- Unconscious adult patients with ROSC after out-of-hospital cardiac arrest should be cooled to 32°C to 34°C for 12 to 24 hours when the initial rhythm was ventricular fibrillation. Level of evidence IIa.
- Such cooling may also be beneficial for other rhythms or in-hospital cardiac arrest. Level of evidence IIb.

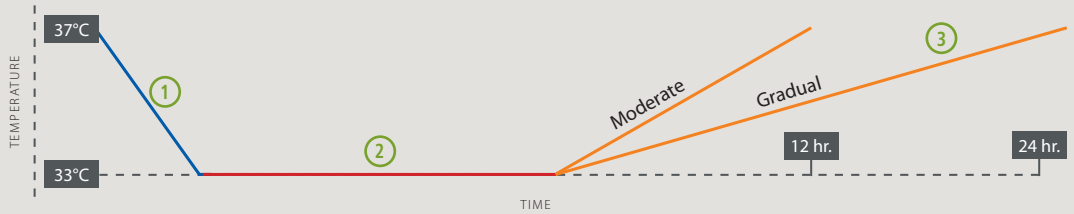
[1] Bernard, et al. *New England Journal of Medicine*. 2002; 346(8).

[2] Hypothermia After Cardiac Arrest Study Group. *New England Journal of Medicine*. 2002; 346(8): 549-556.

[3] Felberg, et al. "Hypothermia After Cardiac Arrest." *Circulation*, Vol. 104, No. 15, October 2001, AHA.

[4] *Circulation* 2005: IV-84-IV-88.

The Medi-Therm® 7900 Offers Multiple Cooling and Warming Options



1 Induction/Cooling Phase

- Rapid mode uses the coldest water available. Moderate incorporates a 15°C differential between the water temperature and patient temperature. Gradual uses a 10°C differential.
- In Rapid or Moderate modes, when the patient temperature is equal to or less than 1°C from the patient set point, the unit will limit the output water temperature to 10°C below the patient temperature.
- Stabilizes patients at their target temperatures quickly.
- Less chance of patient shivering.

2 Maintenance Phase

- Patient temperature maintained at set point per protocol (+ or - .5°C).

3 Warming Phase

- Accommodates automatic extended rewarming intervals for optimal therapy benefits and less risk of rebound hypothermia.
- Clinician chooses the desired patient temperature and then chooses Moderate (approximately 12 hours) or Gradual (approximately 24 hours) mode*.

* Based on 170 lb. (77 kg) patient.

Six automatic options
Rapid, Moderate or Gradual for warming and cooling

Water temperature
displayed in Manual mode

Patient temperature
displayed in all modes



Visual/audible alerts
provide indication of faults or possible system concerns

One-touch Celsius/ Fahrenheit selection

Set point
allows temperature to be adjusted per protocol

Rapr·Round™ Body Wraps

For a complete patient cooling and warming system



Warming or cooling a patient is often a critical factor in achieving positive outcomes. Compared to conventional water blankets, Rapr·Round™ body wraps offer a more efficient warming/cooling system while increasing the area of body surface contact.

The Rapr·Round is effective for use when inducing and maintaining mild hypothermia, rewarming and temperature management of febrile patients. Used with the Medi-Therm, the system provides clinically proven therapy at an affordable price.

Increased skin surface contact

- Precise warming and cooling with approximately 60% of body surface coverage
- More effective warming and cooling than a flat blanket or ice packs
- Increased heat transfer

Two vest sizes

- Fits up to 90% of all adults
- Less inventory to stock

One size fits all legs

- Only necessary to stock one size of leg wrap; no right or left
- Lower back leg profile for patient access

Designed with clinician input

- Lower profile chest allows quick visibility to IV lines, EKG and easy patient access
- One product can be used in multiple hospital departments
- Permits bony prominences to be in contact with specialty support surfaces
- Non-woven material provides gentle, non-adherent contact layer that eliminates use of sheet between body wrap and patient skin

Easy to apply

- Simple Velcro®-style closure — nothing adheres to the skin
- Wraps move with the patient when repositioned
- Single patient use, 10-12 days

Cost-effective compared to:

- Invasive (catheter) disposables
- Adhesive gel disposables
- Other body wrap systems

Medi-Therm®

Specifications: Medi-Therm

Dimensions	37" H x 14" W x 18-1/4" D (94 x 36 x 46 cm)
Weight	141 lbs. (64 kg) full; 121 lbs. (55 kg) empty
Cabinet	Shell .063": thick aluminum chassis; 16 ga. steel top; flame retardant ABS; 5" (13 cm) conductive casters; downward air discharge; manual storage
Power	ON/OFF switch w/circuit breaker 16/3 SO power cord, 15 ft. (4.6 m) Hospital-grade plug 120 VAC, 11.5 amps, 60Hz 500-watt heater 1/3 hp refrigeration system
Control	Microprocessor Sealed front panel Self-compensating temperature measurement; no periodic calibration required
Fluid System	Distilled water, 10 qt. (9.5 L) Separate hot and cold reservoirs Magnetically coupled pump 16 gph (60 lph) flow rate minimum with blanket
Refrigerant	R-134a (Freon free)
Temperature Control	Water Range: 4°C-42°C (39.2°F-107.6°F) Patient Range (Auto): 30°C-41°C (86°F-105.8°F)
Warranty	Machine: Two years limited Compressor: Five years limited prorated

Ordering Information: Medi-Therm Test Accessories

Model No.	Description
PRK2	Probe Simulator
TPT9	Flow Rate Meter
MT590	Test Tool

Ordering Information: Rapr-Round™ Body Wraps

DHV530	Small/medium vest Chest sizes: 32"-46" 5 vests per case
DHV535	Large vest Chest sizes: 46" and greater 5 vests per case
DHL540	Leg (right or left) One size fits all (for adult) 10 legs (5 sets) per case

Ordering Information: Medi-Therm

Model No.	Description
MTA7900	Medi-Therm 7900 hyper/hypothermia machine (120 VAC). Includes two DBK9 adapter hose (Clik-Tite® connectors) and one AP10CE adaptor for disposable temperature probe
DBK9	Adapter hose (Clik-Tite connectors)
DBK35CE	Insulated adaptor hose 10 ft. (3.05 m) (Clik-Tite connectors)
DBK9CC	Adaptor hose (Colder® connections)
HBX8	Extension hose, 8 ft. (2.43 m) (Clik-Tite connectors)
ADP10CE	Adaptor for disposable temperature probe
DP400CE	Temperature probe, disposable, esophageal/rectal
PAT101	Temperature probe, reusable, esophageal/rectal, adult
PAT102	Temperature probe, reusable, esophageal/rectal, pediatric
PAT108	Temperature probe, reusable, skin surface
MTA33	Germicide/Algaecide

Ordering Information: Blankets

600 Series, single patient use, lightweight polymer with non-woven fabric, Colder connectors

DHP610	25"W x 64"L (64 x 163 cm), adult
DHP612	22"W x 33"L (56 x 84 cm), pediatric
DHP613	30"W x 64"L (76 x 163 cm), adult/full bed

800 Series, single patient use, lightweight polymer with non-woven fabric

DHP810	25"W x 64"L (64 x 163 cm), adult
DHP812	22"W x 33"L (56 x 84 cm), pediatric
DHP813	30"W x 64"L (76 x 163 cm), adult/full bed

900 Series, single patient use, all polymer

DHP901	25"W x 69"L (64 x 175 cm), adult
DHP902	25"W x 36"L (64 x 91 cm), pediatric

Heavy-duty reusable, all polymer

HP7010	25"W x 69"L (64 x 175 cm), adult
HP7020	25"W x 36"L (64 x 91 cm), pediatric

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