Temperature Management Solutions

The Most Comprehensive Temperature Management Portfolio Available

Stryker now offers a broad range of equipment to provide patient temperature management with precision, safety and versatility in an easy-to-use system.

Failure to properly maintain patient temperatures can be expensive — not only in clinical outcomes, but also in the cost of care. Temperature management solutions are utilized throughout most healthcare facilities. Stryker is dedicated to helping you find a system that allows you to work more efficiently with the precision and safety you expect, and the ease of use you require. Our temperature management portfolio includes dependable and durable products that can warm or cool your patient’s core temperature to preselected levels or help enhance their comfort and healing through localized temperature therapy.

Our comprehensive portfolio offers solutions to make your job easier while helping to improve patient outcomes.
Temperature Management in the Hospital

Clinical Applications

Patient warming and cooling are often critical factors in achieving positive outcomes.

**Core Body Warming**
When core body temperature drops, a patient is at a higher risk of infection or negative outcomes. Patients at a higher risk for developing inadvertent hypothermia include the elderly, patients under anesthesia, and those with open wounds, among other conditions. Patients such as these often require the aid of a temperature management system to help bring their core body temperature back to normothermia.

Specific surgical procedures can increase risk of hypothermia, such as:
- open cavity surgery
- procedures requiring blood transfusions
- procedures requiring use of irrigation systems
- patients receiving regional or general anesthesia

**Core Body Cooling**
Core body cooling may be indicated and initiated to:
- regulate febrile patient temperature
- maintain perioperative normothermia
- provide cooling therapy to those suffering from heat stroke, heat stress or heat exhaustion

**Localized Temperature Therapy**
Localized Temperature Therapy may be used to provide:
- relaxation of muscles
- treatment of subacute and chronic inflammatory conditions
- improved quality of life related to level of patient comfort

**Convective Technology**
Convective warming is accomplished through waves of air passing over the skin.

**Blood/Fluid Warming**
A blood and fluid warming system uses a heat source to warm blood or fluid before it is administered to a patient.

**Conductive Technology**
Conductive warming or cooling is accomplished by applying a warm or cool surface in direct contact with the patient’s skin.
Patient warming and cooling are often critical factors in achieving positive outcomes. Stryker now provides the optimal choice for patient temperature management with precision, safety and versatility in an easy-to-use system.

The Medi-Therm Hyper/Hypothermia System helps regulate patient temperature through a state-of-the-art microprocessor control. Separate heating and cooling reservoirs deliver rapid thermal response. The rate-controlled warming option allows caregivers to progressively increase temperature and reliably stabilize patient temperature at a selected set point.

- Noninvasive, catheter-free procedure helps reduce the risk of infection.
- Dual over-temperature monitoring systems help safeguard the patient's well being and comfort.
- Quickly stabilize patient temperature at selected set point.
- Intuitive user interface with LED screen makes operation easy.
- Maintenance-free, rate-controlled warming with rapid initiation so you can begin therapy in minutes.
- Designed for protocols prescribed by a physician.

### Controlled Cooling and Warming Cycles
**Support Multiple Therapies**
Medi-Therm allows for a combination of cooling, maintenance and warming cycles to be used as needed for prescribed therapy.

<table>
<thead>
<tr>
<th>Cool</th>
<th>Maintain</th>
<th>Warm</th>
</tr>
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<tbody>
<tr>
<td>37°C</td>
<td>33°C</td>
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<table>
<thead>
<tr>
<th>Moderate</th>
<th>Gradual</th>
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<td>12 hr.</td>
<td>24 hr.</td>
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### Maximum Coverage
**Rapr-Round**
The Stryker Rapr-Round body wraps offer more efficient warming and cooling when compared to conventional water blankets. Available in presized kits.

### User-Friendly Control Panel
Six automatic cooling and warming control options provide versatile support for advanced therapies. The control panel’s large buttons and LED screen make operation simple.
The T/Pump provides safe and effective localized warming and cooling therapy with precise temperature control.

T/Pump is effective for chronic pain relief and patient comfort in orthopedic conditions, skin trauma and a number of other applications to meet the needs of an ever-changing patient population. The large, translucent reservoir and large buttons make operation simple.

**Conveniently operates with tap water without the need for sterile or distilled water.**

**Ergonomic design with comfortable handle makes transport easy.**

**T/Flash Technology periodically adjusts surface temperature to perceptibly indicate continued therapy.**

**Audible and visible alarms alert caregivers to low water or internal issues.**

**Large-capacity translucent reservoir allows users to determine water levels at a glance.**

**Three-layer safety system helps ensure safe operation.**

**Customized Comfort**
A variety of Mul-T-Pad disposable options allow you to customize the individual patient experience.

**One-Touch Therapy**
Multiple temperature settings and treatment cycles allow for therapy customized to patient needs.

**Extra-Wide, Leak-Proof Cap**
Tethered strap helps prevent cap loss. Simply fill with tap water for warming or tap water and ice for cooling.
The Thermacare Patient Warming System provides effective patient warming during a variety of procedures through a lightweight, portable warm-air blower unit.

The Thermacare unit’s flexible, lightweight hose is covered to allow for thorough, easy cleaning. An optional blower stand makes the unit portable and convenient. Automated operation requires less nursing intervention, while a secure hook-and-loop fastener hose attachment minimizes accidental detachment from the blanket.

Lightweight, portable blower unit delivers warm air in a variety of temperature settings.

Quilts feature air distribution for optimal effectiveness, with a temperature range of 32°C to 43°C.

Flexible quilt options feature perforated areas to provide better access during procedures.

Easy to Clean
Covered control unit hose makes cleaning quick and easy.

Variety of Disposables
The blower unit is used with Thermacare quilts, available separately in six sizes, which are intended for single patient use and are made from spunbonded nonwoven polypropylene with a polyethylene coating.

Hook-and-Loop Hose Attachment
Unique, hose-to-quilt attachment system provides a secure connection to help reduce or eliminate accidental detachment of the blower and quilt during procedures.
The Medi-Temp Blood/Fluid Warming System provides a quick and versatile solution to help prevent inadvertent hypothermia during surgery and other procedures requiring fluid administration.

The Medi-Temp Blood/Fluid Warming System includes a lightweight warmer with the flexibility to provide warm fluid to the patient over a wide range of flow rates.

The system features Dry Heat Technology, avoiding the need for water and eliminating contamination issues. The fast-acting, versatile device heats fluids to normothermic temperatures in about 60 seconds.

Adjustable set point temperature from 38°C to 43°C allows clinicians to select the temperature most suited for the patient or procedure.

Easy to load disposable cassettes provide effective, even heating.

43°C maximum set point provides for temperature maintenance along the patient line.

Splash-proof design for fast and easy cleaning.

Lightweight vertical profile provides stability on IV pole.

Superior over temperature backup system helps ensure maximum patient safety.

Self-diagnostic check initiates when the system is started.

Attached power cord stows neatly with the unit.

Dry Heat Technology supplies even heating and automatic adjustment to maintain the selected temperature for flow rates from KVO to 500 ml/min.

Intuitive Cassette Placement
Convex leading edge and rigid design facilitates easy cassette insertion and reinsertion.

Latex-Free Disposables
A variety of cassettes accommodate different flow rates and patient requirements, from KVO to 500 ml/min.
Indications for Use

**Medi-Therm Hyper/Hypothermia System**
The Medi-Therm is intended for use in supplying warm or cold water at controlled temperatures via water circulating blankets or body wraps for the application of regulating patient temperature in situations where a physician determines that temperature therapy is necessary and desirable.

Indications for use for the Medi-Therm thermal regulating system include:
- a. To maintain preset body temperature as determined by the physician
- b. To maintain normal body temperature during surgical procedures
- c. For use in all hospital areas including invasive and coronary care units, in operating, recovery and emergency rooms, in burn units and on medical/surgical floors
- d. This system can be used with adult and pediatric patients
- e. Monitoring and controlling patient temperature
- f. Temperature reduction in patients where clinically indicated, e.g., hyperthermic patients

**T/Pump Localized Therapy System**
Indications for use for the T/Pump system include:
- a. Orthopedic conditions such as acute injuries, chronic pain, lower back pain, muscle spasm and strains
- b. Skin trauma such as abscesses, boils, bruises and contusions
- c. Other conditions such as: chronic arthritis, neuritis, phlebitis, tendonitis, and other applications only as prescribed

**Thermacare Patient Warming System**
A device used for warming patients for the purpose of preventing hypothermia.

**Medi-Temp Blood/Fluid Warming System**
The blood/liquid warmer is intended to aid in the prevention of inadvertent hypothermia during administration of blood, blood products and other fluids.

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A healthcare professional must always rely on his or her own professional clinical judgment when deciding whether to use a particular product when treating a particular patient. Stryker does not dispense medical advice and recommends that surgeons be trained in the use of any particular product before using it in surgery.

The information presented is intended to demonstrate the breadth of Stryker product offerings. A surgeon must always refer to the package insert, product label and/or instructions for use before using any Stryker product.

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