

A patient is lying in a hospital bed, tilted at an angle. The patient is wearing a blue surgical cap and a patterned hospital gown. A white strap is secured around their waist. In the background, there is a medical cart with various equipment, including a monitor and a large clear container. To the right, a ThermAffyx warming unit is mounted on a stand, displaying a temperature of 40°C on its screen. The unit has a control panel with buttons and a small display. The overall scene is a clinical setting, likely an operating room or a specialized care unit.

ThermAffyxTM

Patient Safety System

Integrated Active Warming and
Securement for Trendelenburg

Laparoscopic and robotic-assisted procedures offer many benefits compared with open surgery. However, these surgical methods introduce three patient safety risks:



Inadvertent Perioperative Hypothermia due to limited access for traditional warming.



Unintended Patient Movement due to patient positioning in Trendelenburg.



Pressure Injuries to Patients due to patient positioning during surgery.

DID YOU KNOW?

28.1%

of robotic-assisted surgery patients arriving in the PACU are hypothermic despite warming efforts due to factors such as limited warming surface area available.¹ Additional factors include:

- Longer surgical durations²
- Unwarmed surgical gases³⁻⁸
- Increased exposure & limited warming surface^{4,9-11}

Why Normothermia Matters

Research shows that even mild perioperative hypothermia can increase the patient's risk for significant negative outcomes including but not limited to surgical site infections, increased length of hospital stay, pain and shivering and mortality risks.¹²⁻¹⁵

Maintaining normothermia is not just an AORN guideline. It's a critical factor in improving patient outcomes.

Designed for the Realities of the OR

Inadvertent perioperative hypothermia remains a persistent challenge, even in controlled environments. At the same time, positioning the patient for safety, particularly securement in Trendelenburg, is another critical responsibility for OR teams.

Until now, patient warming and patient securement have been treated as separate problems with separate solutions.

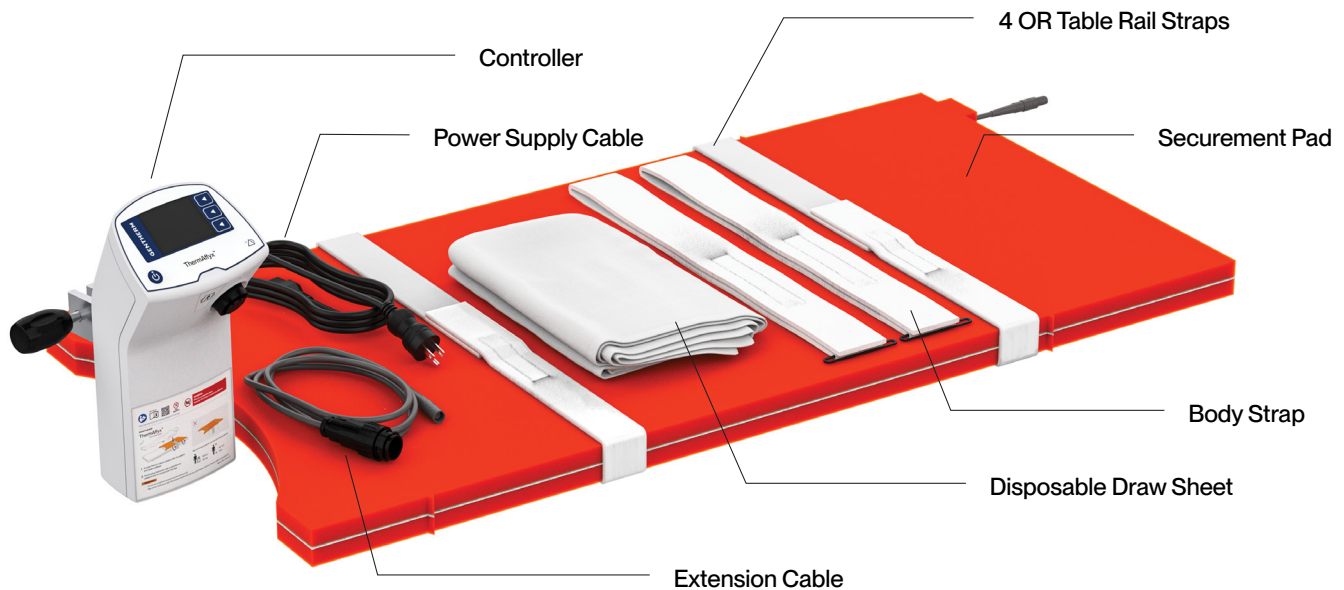
Patents Pending

Introducing the ThermAffyx™ Patient Safety System

ACTIVE WARMING | SECUREMENT | PRESSURE REDUCTION

ThermAffyx™ is a patented active warming and securement system for surgical procedures in Trendelenburg.

Our 3-in-1 solution combines anti-slip foam with a proprietary, carbon fiber heating element to help maintain normothermia, prevent unintended patient movement and provide pressure reduction.



The ThermoAffyx™ System consists of three main components: a disposable Securement Pad, a Controller and an Extension Cable to connect them together. The Pad Kit also comes with an optional body strap and draw/lift sheet.

Active Underbody Warming¹⁶:

Helps keep patients normothermic where other solutions can't, especially in robotics cases with limited access.



Pressure-Activated Heat Transfer up to 40°C. Delivers maximum warmth to the patient immediately upon transfer to the underbody Pad.



Rapid Warm-Up with Simple Operation. Features three pre-set temperature settings and can reach the selected temperature in under four minutes.



Quiet Operation with No Air Movement.** Runs silently without warming the surgical team or increasing room temperature.



Radiolucent Design for Clear Imaging. Provides artifact-free imaging when intraoperative scans are required.



**Negligible air movement.

DID YOU KNOW?

ThermAffyx Securement Pad demonstrated securement performance equivalent to non-heated pads at Trendelenburg angles $\leq 40^\circ$. The findings support integrated warming without compromising securement performance.¹⁶

Patient Securement¹⁶:

You don't have to sacrifice securement to add warming.

Anti-Slip foam. The high coefficient of friction helps prevent patients from sliding when in Trendelenburg.

Strong & disposable. Designed to handle surgical fluids without affecting the heating element or strength of the foam.

**ThermAffyx™
Foam is**

2X

stronger than the leading securement foam when dry and

6X

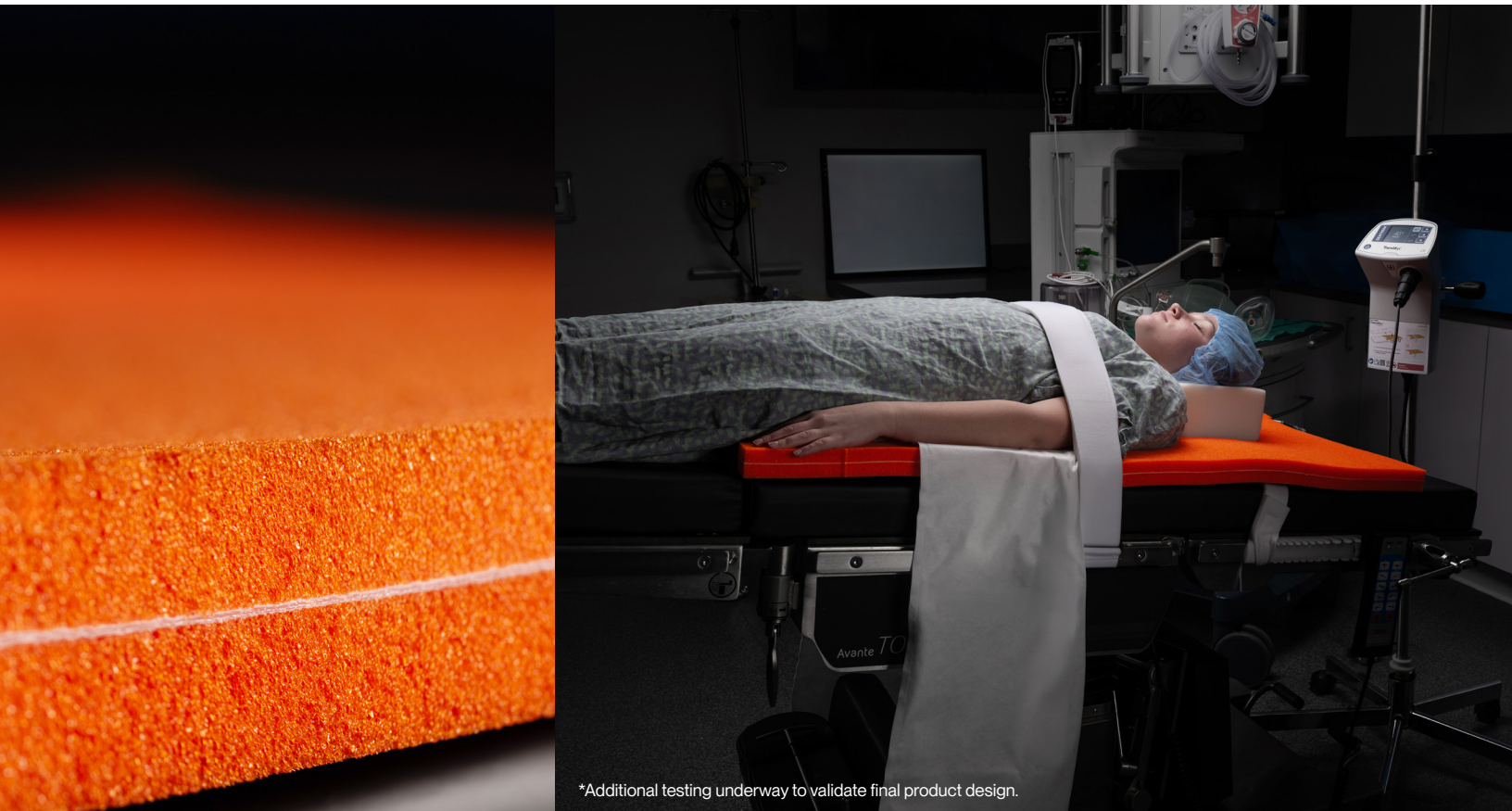
stronger when wet¹⁶

Pressure Reduction¹⁶:

Supports pressure injury prevention, even with integrated warming.

Reduced pressure. Delivers up to ~58% lower pressure at the lower back compared to the OR table mattress alone.*

Redistributing design. Helps reduce peak pressure points while increasing patient contact area.



Engineered for Safety. Backed by Decades of Thermal Science Expertise

Gentherm is a global leader in thermal science, with more than 60 years of innovation across medical, automotive, industrial, and consumer applications. As the only medical device company with expertise spanning conductive, convective, and resistive temperature management technologies, we bring an unmatched depth of knowledge to patient warming.

At the core of the ThermAffyx™ Securement Pad is over 30 years of experience developing and advancing Carbotex®, our proprietary carbon-fiber heating technology. Through this experience, Gentherm has achieved significant

technical advancements in the design and control of carbon-fiber heating elements, resulting in highly efficient, uniform heat delivery and robust safety performance.

To help protect patients, the Securement Pad incorporates a proprietary temperature-control algorithm and strategically placed safety sensors that continuously monitor pad performance and maintain the prescribed surface temperature. This intelligent system is designed to provide consistent warming while helping minimize the risk of unintended temperature variation.

Ordering Information and Specifications

PRODUCT SPECIFICATIONS

Controller Dimensions:

11.8 in x 6.1 in x 5.1 in
(30 cm x 15.5 cm x 13 cm)

Controller Weight:

3.75 lbs. (1.7 kg)

Heater Power:

155 Watts

Electrical Connection:

100 - 240 VAC, 50-60 Hz

Rated Current:

100 V = 1.5 A, 240 V = 0.7 A

Temperature Settings:

40°C, 37°C, 34°C
(104°F, 98.6°F, 93.2°F)

Extension Cable Length:

79 in (6.56 ft)

Pad Dimensions:

22 in x 44 in x 1.5 in
(111.8 cm x 55.9 cm x 3.8 cm)

Pad Weight:

4.2 lbs. (1.9 kg)

Pad Material:

Polyurethane foam with embedded Carbotex® heating element

Power Supply Cable Length:

9.84 ft (3 m)

Packaging Matters

We understand how limited storage space is for many facilities. Our compressed, roll-pack design enables hospitals to store ThermAffyx™ Pads in the spaces and quantities where it makes sense for you.



CAT #	Product Description	Qty
364	ThermAffyx™ Controller Kit: 1 Controller + 1 Extension Cable + 1 Power Supply Cord	1 ea.
365	ThermAffyx™ Pad Kit: 1 Pad + 1 Disposable Draw Sheet + 1 Single Body Strap Set	1 Box (4 Kits/Box)

REPLACEMENT & MAINTENANCE PARTS

361	ThermAffyx™ Power Supply Cable	1 ea.
362	ThermAffyx™ Extension Cable	1 ea.
368	ThermAffyx™ Test Plug Kit (Annual Maintenance)	1 ea.

GENTHERM

Decades of thermal science leadership.

Advanced carbon-fiber expertise.

Engineered patient safety.

That's the Gentherm difference.

Technical Support: 1-888-437-5608

Customer Support: 1-513-719-3294

Medicalorders@gentherm.com



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