

GENTHERM

IOB Convective Warming Unit

Superior Warming Performance & Advanced Filtration Capabilities



Maintaining Normothermia is Critical for Optimising Surgical Outcomes

In a surgical setting, inadvertent perioperative hypothermia (core temperature $<36^{\circ}\text{C}$) can dramatically increase the risk for surgical complications.¹⁻⁴

Active warming is needed to counteract the negative effects of anaesthesia on resting core body temperature⁵ and convective warming technology continues to be the standard of care.

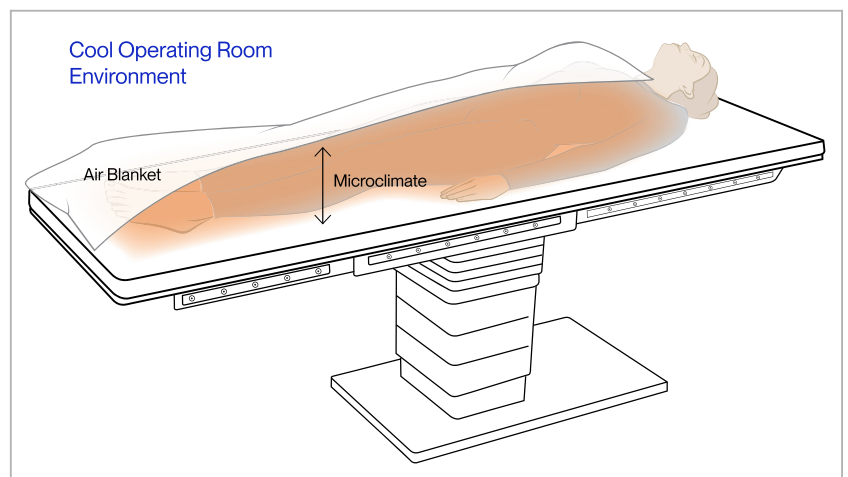
A Robust Solution: The IOB Convective Warming System

The IOB 505 Convective Warming Unit is the newest innovation in advanced convective warming technology, engineered to enable clinicians to maintain normothermia in their patients. When compared to a leading brand, the IOB 505 System creates a warmer microclimate and provides effective, multi-factor air filtration when it recirculates air in the operating room.

A WARMER MICROCLIMATE DUE TO DIFFUSED AIRFLOW DESIGN

The IOB System's upgraded warming unit combined with the blanket's Diffused Airflow design effectively warms the patient microclimate in order to maintain normothermia in perioperative settings.

The patient is warmed as air diffuses through the blanket's nanoporous fabric into the microclimate reducing heat escaping into the environment as well as blanket lofting.⁶

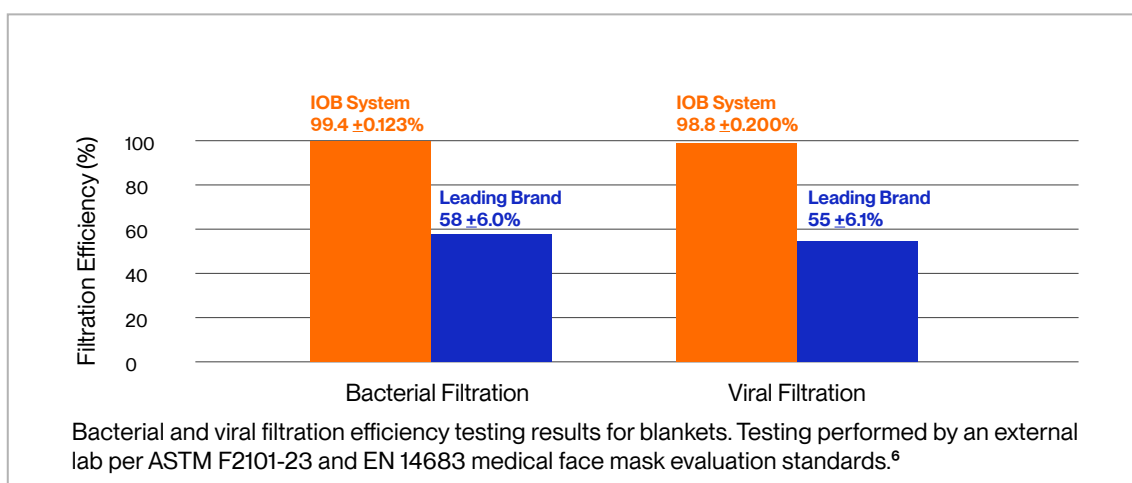


The microclimate is the physical space between the patient and the blanket that is critical to transferring heat energy to the patient.

MULTI-FACTOR AIR FILTRATION

The combination of the warming unit's HEPA filter and the advanced filtration capabilities of the proprietary IOB blanket design, can give peace of mind when it comes to recirculating air in the OR.

When tested by an independent laboratory, IOB blankets are 99.4% efficient at filtering aerosolised bacteria, significantly more efficient compared to 58% by the leading brand (99% CI, 35%-47% more efficient; $p < 0.001$). Additionally, viral filtration efficiency tests showed similar results.



REFERENCES

1. Sessler, D. I. Non-pharmacologic Prevention of Surgical Wound Infection. *Anesthesiol. Clin.* 24, 279–297 (2006).
2. Sun, Z. et al. Intraoperative core temperature patterns, transfusion requirement, and hospital duration in patients warmed with forced air. *Anesthesiology* 122, 276–285 (2015).
3. Kay, A. B. et al. Preoperative Warming Reduces Intraoperative Hypothermia in Total Joint Arthroplasty Patients. *J. Am. Acad. Orthop. Surg.* 28, e255–e262 (2020).
4. Fred, C., Ford, S., Wagner, D. & Vanbrackle, L. Intraoperatively acquired pressure ulcers and perioperative normothermia: a look at relationships. *AORN J.* 96, 251–260 (2012).
5. AORN Staff. 4 Updates for More Effective Hypothermia Prevention - Periop Today - A. Aorn.org <https://www.aorn.org/article/2019-10-22-Hypothermia-Prevention>.
6. Gentherm Medical. Data on file. (2023).

THE GENTHERM ADVANTAGE

The IOB Convective Warming System is trusted by hospitals worldwide. We take great pride in our clinical expertise and patient experience. Not only do our customers receive in-service training from our expert team, they also have access to 24-Hr Clinical Support should questions arise day or night.

For questions and ordering information, please reach out to your Gentherm Representative or contact us at medicalorders@gentherm.com

Ordering Information

505 WARMING UNIT PRODUCT SPECIFICATIONS

Dimensions:

H 11.6 in x D 8.7 in x W 8.7 in
H 29.5 cm x D 22 cm x W 22 cm

Weight:

5.4 kg

Operating Temperature:

High: 43° ±3°C (109.4°F ± 5.4°F)
Mid: 38° ±3°C (100.4°F ± 5.4°F)
Low: 32° ±3°C (89.6°F ± 5.4°F)

Relative Noise Level:

≤55 dB(A)

Device Rating:

110-120 VAC, 60 Hz, 12 A
200-230 VAC, 50/60 Hz, 8A

Standards:

IEC 60601-1
IEC 60601-1-2
IEC 60601-1-6
IEC 60601-1-8
IEC 60601-2-35

Filter

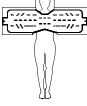
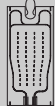
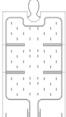
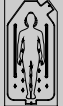
HEPA 0.2 µm

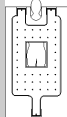
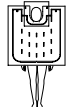
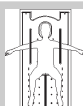
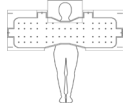
Filter Life: Every 12 months or 500 hours of use

UNIT & SPARE PARTS

IOB-505	IOB Warming Unit
WU-025	Rolling Stand
WU-009	HEPA Filter
WU-028	Plastic Hose Clamp

BLANKETS

IOB-002		Lower Body	56in x 47in (142x120cm)
IOB-003		Upper Body	80in x 25in (202cm x 64 cm)
IOB-004		Full Body	83in x 47in (210cm x 120cm)
IOB-006		Adult Underbody	85in x 39in (215cm x 100cm)
IOB-007		Paediatric Full Body	67in x 39in (170cm x 100cm)
IOB-008		Full Body Surgical	83in x 47in (210cm x 120cm)
IOB-009		Large Paediatric Underbody	63in x 31in (160cm x 80cm)
IOB-012		Paediatric Lower Body	32in x 25in (84cm x 64cm)
IOB-015		Cath Lab	76in x 29in (192cm x 74cm)

IOB-016		Surgical Access	82in x 47in (210cm x 120cm)
IOB-019		Dual Port Torso	43in x 40in (109cm x 102cm)
IOB-025		Small Paediatric Full Body / Underbody	47in x 31in (120cm x 80cm)
IOB-028		Small Paediatric Underbody	39in x 39in (100cm x 100cm)
IOB-029		Lithotomy Underbody	79in x 39in (200cm x 100cm)
IOB-030		Multi-Position Upper Body	78in x 31in (198cm x 80cm)
IOB-301		Small Warming Suit	91in x 39in (230cm x 100cm)
IOB-302		Medium Warming Suit	110in x 39in (280cm x 100cm)
IOB-303		Large Warming Suit	130in x 47in (330cm x 120cm)
IOB-304		XL Warming Suit	151in x 47in (384cm x 120cm)