



Alpha Patient Warming System

Every patient, every time



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There is widespread clinical evidence of the benefits of patient warming for the prevention of inadvertent hypothermia. There are significant studies covering surgery, anaesthesia and many other clinical areas that found that the benefits of warming are clearly demonstrable, such as improved morbidity and mortality, lower infection rates, reduced blood loss and less time in recovery. All of these contribute to large cost savings.

Warming

The Alpha Patient Warming System, powered by Inditherm, combines more effective thermal transfer with simplicity of use making it superior to other methods currently available. This application of an innovative yet well-tested and established technology provides significant financial benefits with a much lower cost of ownership than other warming methods, making routine warming of all patients affordable and convenient. Warming all patients is surprisingly less expensive than being selective.

NICE clinical guidelines support the use of Inditherm patient warming systems for patients undergoing operations which carry risk of inadvertent hypothermia: highlighting the potential cost savings and clinical advantages offered by the innovative Inditherm warming technology.

Features

Ultimate convenience

- Compact control unit fits on anaesthetic trolley or drip stand
- Lightweight and X-ray translucent
- Completely silent operation-performance without the distraction of noise pollution

Unhindered access to patient

- Fits under patient with no warming of surrounding environment or surgical team
- Integrated pressure relief

Significant cost reduction and management

- No disposables, no leaks, very low maintenance
- Warm any number of patients at no extra cost
- Better overall outcomes and shorter post-operative stays

Safe & robust

- Low voltage operation for reduced operating costs
- Durable, latex-free cover





Product Range

Mattresses are particularly suited to use in the operating room and the pre-operative period. These give the most efficient heat transfer and are completely unobtrusive, being under the patient. Blankets can be used in conjunction but are typically used in the recovery room (PACU) and other situations where it is not practical to place a mattress under the patient.

The advanced Alpha^{Plus} unit is mains powered, with options to add integrated battery and DC power input. The optional battery will power the mattress for at least an hour, and is automatically re-charged when the unit is connected to mains power. The DC power input can be run from any supply between 12 Vdc and 28 Vdc.

The Alpha^{Plus} unit can be specified with an optional Patient Temperature Monitor function.

Applications

Mattresses and blankets are available to suit the full range of surgical procedures. The Inditherm Alpha patient warming range is also well suited for use in the recovery area, intensive care unit and during the pre-operative period.

The Alpha^{Plus} system can also be used on the go. The compact, lightweight design, combined with battery operation or DC power input make it a perfect solution for transport or patient transfers.



Technical Specifications

Mattress Construction:	Inditherm® flexible polymer heating sheet, with pressure relief pad under and 305 g.m ⁻² expanded polyester comfort lining over Encapsulated in latex-free, nylon fabric cover, with non-microporous polyurethane coating, fully sealed with RF welded seams In-built temperature sensor and over-temperature thermal cut-out Connection cable, 200 mm long, with strain relief, fully sealed entry grommet and IP61 rated waterproof connector Sensors and cables let into pressure relief pad for patient comfort	Dimensions:	Type	Size	Weight
Temperature Output Range:	37 °C to 40 °C (99 °F to 104 °F) in steps of 1 °C (2 °F) Over-temperature safety cut-out at 43 °C (109 °F)	Alpha ^{Plus} Control Unit Mains Power: Mains and Battery: Mains, Battery and D.C. Input: Mains Power with patient temperature monitor: Mains and Battery with patient temperature monitor: Mains, Battery and D.C. Input with patient temperature monitor: Mattresses & Blankets	MCU200 MCU201 MCU202 MCU203 MCU204 MCU205 OTM1 OTM1-N OTM2 OTM2-N GTM1 GTM1-N PTM1 OTB1 OTB2 RB1 RB2	280 x 155 x 140 mm 280 x 155 x 140 mm 1900 x 585 mm 1900 x 535 mm 1200 x 585 mm 1200 x 535 mm 1070 x 585 mm 1070 x 535 mm 560 x 500 mm 500 x 1070 mm 870 x 500 mm 1660 x 800 mm 1660 x 1200 mm	2.0 kg 3.2 kg 4.0 kg 2.0 kg 3.2 kg 4.0 kg 3.2 kg 2.8 kg 1.9 kg 1.8 kg 1.8 kg 1.7 kg 0.9 kg 1.2 kg 1.0 kg 1.5 kg 2.2 kg
Power:		Other dimensions available on request	4 m	4 m	
Alpha Control Unit	100 Vac or 110 Vac or 230 Vac (±6%), 50Hz/60Hz, 75 W	Connecting Cable:	EN60601-1, Class IIb, Type BF	EN60601-1-2	EN60601-2-35
Alpha ^{Plus} Control Unit	100 Vac to 240 Vac (±6%), 50 Hz/60 Hz (auto-ranging), 100W	Compliance:	UL 60601	93/42/EEC, EEC Medical Devices Directive	73/23/EEC, EEC Low Voltage Devices Directive
Battery Input (Optional):	Integrated battery module	Environmental:	10 °C to 40 °C (50 °F to 104 °F)	10 °C to 40 °C (50 °F to 104 °F)	-10 °C to 55 °C (14 °F to 131 °F)
Capacity:	1 hour for standard full length mattress (OTM1) from full charge	Ambient Temperature (Operating):	10 °C to 40 °C (50 °F to 104 °F)	Ambient Temperature (Storage):	30 % to 75 %
Charging:	Automatic charging when mains power applied 18 hour charge time from complete discharge to fully charged	Relative Humidity:	30 % to 75 %		
D.C. Input (Optional):	12 Vdc to 28 Vdc (±10%)				
Patient Temperature Monitor function (Optional):	Requires approved patient temperature probe				
Mattresses and Blankets	24 V (nom.) 25 W to 65 W, depending on size				

Caution: United States Federal law restricts this device to sale by or on the order of a physician
* For references please go to our website.

The details given in this leaflet are correct at time of going to press. The company reserves the right to improve the products shown.

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