

Mistral-Air®

Forced Air Warming



Safe, comfortable & optimised
Forced Air Warming

Preventing inadvertent perioperative hypothermia helps to reduce surgical site infections, the length of hospital stays and the costs per patient.^{1,2,3} The Mistral-Air® Warming Unit is a Forced Air Warming device which enables **safe**⁴, **comfortable** and **optimised** management of patient temperature to

achieve normothermia. Mistral-Air® Warming Blankets are adaptable to most surgical cases, safe and comfortable for the patient. Mistral-Air® Warming Blankets are aerodynamically designed to distribute warmed air evenly throughout the blanket and, through controlled diffusion, evenly over the

patient. Additional features such as the size, the tuck-in flaps and the attuned blower-blanket design ensure the blankets drape perfectly over your patient, resulting in optimised heat transfer towards the patient, improving your patient's outcome through optimised patient warming.

MISTRAL-AIR® WARMING BLANKETS

Mistral-Air® Forced Air Warming

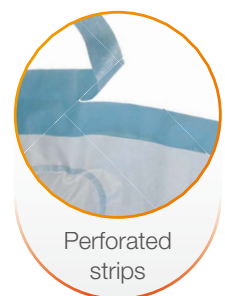
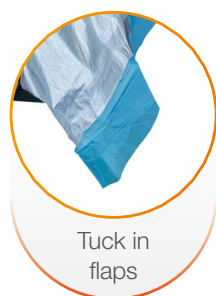
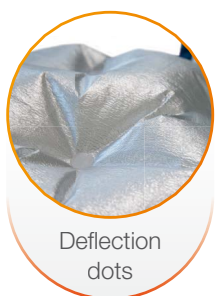
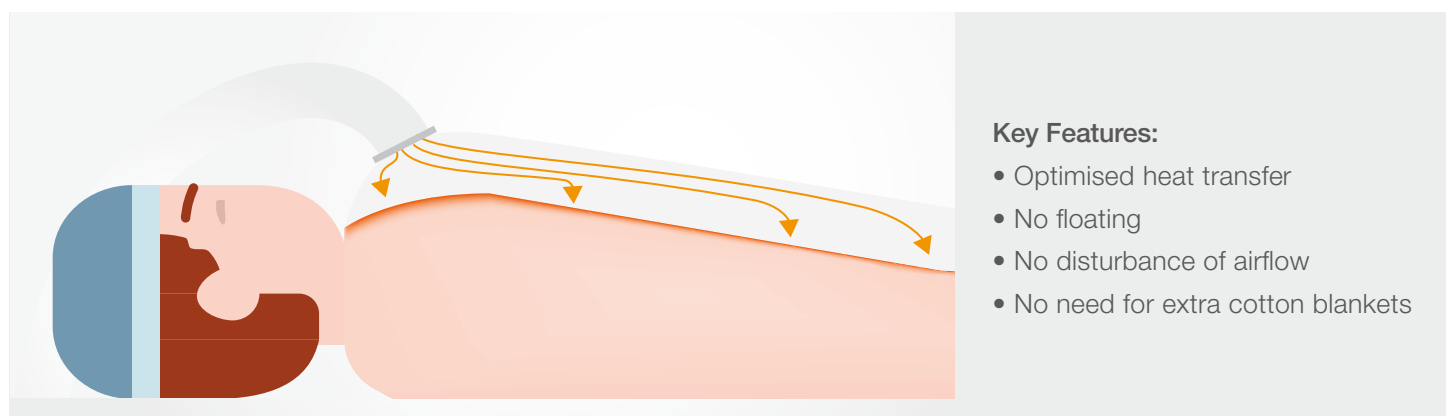


CONTROLLED DIFFUSION

The controlled diffusion of air is the result of the warming unit delivering a large volume of warm air to a low-pressure blanket. The warmed air is distributed evenly throughout the warming blanket due to the aerodynamic design and then evenly distributed over your patient through the permeable layer of the Mistral-Air® Warming Blankets.

This technology, together with the tuck-in flaps ensure Mistral-Air® warming blankets stay in place and keep warm air on the patient.

As a result, the airflow in the environment is not disturbed and there is no need to add cotton linens or other drapes to keep Mistral-Air® warming blankets in place.



PREMIUM PERFORMANCE

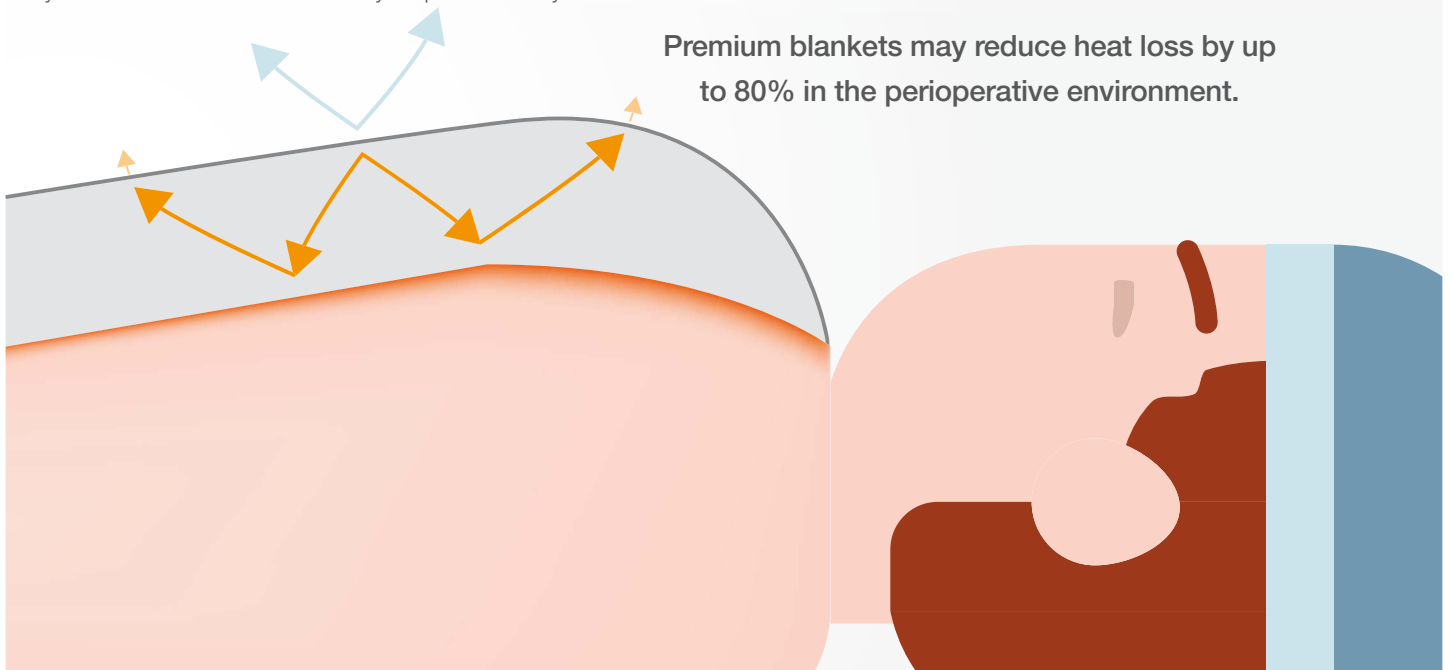
The unique Mistral-Air® Premium Blankets have an **insulating top layer**, which increases the warming capacity with at least **10%** by reducing radiant heat loss.

Premium blankets can be used for:

- **active warming:** with warmed air by warming unit. In the pre- and postoperative phase and during the operation
- **passive warming:** without warmed air, such as during transit periods. The insulating top layer reduces heat loss and retains your patient's body heat.

The Mistral-Air® Premium Blankets are an **all-in-one solution** to keep patients warm throughout the entire perioperative pathway.

Premium blankets may reduce heat loss by up to **80%** in the perioperative environment.



MISTRAL-AIR® WARMING SUITS

Mistral-Air® warming suits are designed to be used in any situation during the peri-operative pathway. The suit can be used as a full body blanket from the pre-operative phase by replacing the hospital patient gown.

After pre-warming, the warming suit can be split into an upper body and a lower body blanket, suitable for use during surgery.

Mistral-Air® warming suits can replace:

- hospital patient gowns
- cottons blankets
- Forced Air Warming blankets



'Ideal for pre-warming'

SAFE & OPTIMISED WARMING UNIT

The Mistral-Air® Forced Air Warming unit allows therapy to start within 30 seconds and is comfortable to handle. The unit is lightweight, easy to clean and made of impact-resistant material and also available with a quick-connect functionality (art. no. MA1200-QC-EU) for easier hose changes and it also allows the hose to rotate 360° for optimal positioning range.

Improve patient outcome through safe, comfortable, and optimised patient warming.

“Mistral-Air® offers a wide range of dedicated solutions for optimised patient warming throughout the entire perioperative pathway.”



HEPA filter



Slim design

The Mistral-Air® Forced Air Warming unit:

- Optimised heat transfer due to Multi Sensor Technology & Powerful Fan
- Elimination of air contaminants through the HEPA filter
- Ergonomic and flexible in use due to the slim & lightweight design

Equipped with a versatile mounting bracket, the slim Mistral-Air® warming unit offers caregivers a diversity to securely position the warming unit in all care areas.

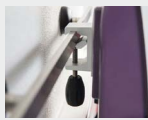
More mounting options! Mistral-Air® Mounting Parts: Art. Number: MA5002

Standard Mounting:

Universal mounting options



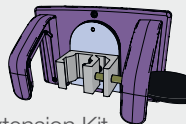
Trolley or IV Pole



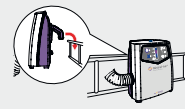
ISO bed rail

Mounting Extension Kit:

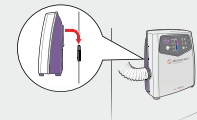
Extend the number of mounting options



Extension Kit



Bed Brackets



Wall Mount Option

Mistral-Air® Warming Unit (Quick-Connect) Article number MA1200-EU (MA1200v-QC-EU)	
Voltage, Frequency, Current	220 - 240VAC, 50/60Hz, 3.2A
Average power	600W
Dimensions	160mm x 350mm x 400mm (l x w x h)
Weight	5.2kg
Hose length	1.8m
Power cord length	4.0m
Set temperature	32°C, 38°C, 43°C or Ambient Air
Filtration	HEPA H13 class filter, conform EN 1822-1:2009
Classification IEC 60601-1	Class I, Body Floating (BF)
Classification IEC 60529	IP23
Classification 93/42/EEC	Class IIb

Mistral-Air® QC Hose / QC Hose XL Article number MA1200-1018 / MA1200-1018XL	
Length QC Hose (standard)	1.8m
Length QC Hose XL (optional)	3.0m

Mistral-Air® Adjustable Pole with Basket Article number MA5250	
Dimensions Pole	685-935mm ± 10mm height, ø 25mm
Dimensions Base	ø 605mm
Castors	5 latex free, with brakes
Basket dimensions	195mm x 295mm x 250mm



Quick-Connect




BLANKET OVERVIEW


INTRAOPERATIVE



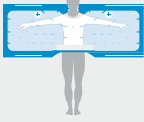
MA3350 (Premium)
MA2250 (Plus)
Lower Body
1320 x 1330 mm




MA2270 (Plus)
Torso
1240 x 760 mm



MA2286
Cardiac / sterile
1700 x 1330 mm



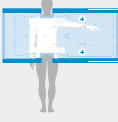
MA3360 (Premium)
MA2260 (Plus)
Upper Body
2010 x 760 mm



MA2285
Lower Surgical Access sterile
1830 x 1330 mm




MA3330 (Premium)
MA2230 (Plus)
Paediatric
1660 x 1330 mm



MA3365 (Premium)
MA2265 (Plus)
Half Upper Body
1625 x 760 mm




MA2290 / MA2280
Surgical Access / sterile
2200 x 1330 mm




MA0510
Tube
1750 x 150 mm


PACU



MA3320 (Premium)
MA2220 (Plus)
Adult
2270 x 1330 mm



MA3340 (Premium) / MA2240 (Plus)
Neonatal
1160 x 1330 mm




MA3475 (Premium) / MA2475 (Plus)
Paediatric Underbody
1680 x 900 mm



MA3330 (Premium)
MA2230 (Plus)
Paediatric
1660 x 1330 mm

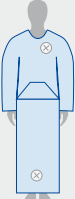


MA3400 (Premium) / MA2400 (Plus)
Full Underbody
2200 x 900 mm




MA3450 (Premium) / MA2450 (Plus)
Half Underbody
1680 x 900 mm

SUITS



MA1610 - Premium Warming Suit S
MA1620 - Premium Warming Suit M
MA1630 - Premium Warming Suit L
MA1640 - Premium Warming Suit XL



MA1710 - Warming Suit S
MA1720 - Warming Suit M
MA1730 - Warming Suit L
MA1740 - Warming Suit XL

The Surgical Company PTM - Specialization through Innovation

Our Patient Temperature Management product portfolio is all about offering solutions for patient warming, about keeping patients at a constant healthy body temperature.

The Surgical Company PTM is working with respected medical professionals to accomplish continuous innovation, improve patient outcome and to reduce health care costs. This by providing training, education and economically justified, best-in-class products.



- 1 Luna G.K., et al., Incidence and Effect of Hypothermia in Seriously Injured Patients, The Journal of Trauma (1987)
- 2 Jurkovich G.J., Hall G.M., Hypothermia in trauma victims: An ominous predictor of survival, The Journal of Trauma (1987)
- 3 Kurz A., Sessler D., Lenhardt R., Perioperative normothermia to reduce the incidence of surgical-wound infection and shorten hospitalization. Study of Wound Infection and Temperature Group, New England Journal of Medicine (1996) 334: 1209-15
- 4 in compliance with all applicable safety standards and guidelines.

Virtual37® Temperature Management Tool

Virtual37 is a Temperature Management Tool. This simulation tool offers an innovative and easy way to understand the impact of the warming balance and the warming decisions taken in surgeries.

The tool has been validated by University Hospital Ghent, Belgium.



Mistral-Air®
Forced Air Warming

Fluido®
Blood and Fluid Warming

Thermoflect®
Heat Reflective Technology

Fluido® Irrigation
Fluid Warming

Broncoflex®
Single-use Bronchoscope

Sensium®
Wireless Vitals Monitoring

Fluido® and Mistral-Air® are registered trademarks of The Surgical Company International B.V. Fluido® products are covered by the following European patents: 1313521 and 1446179. Mistral-Air® Blankets Plus are covered by the following American patent: 12/342,933. Other patents pending. Thermoflect® is a registered trademark of Encompass Group, LLC.

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