

# TSC LIFE

## FULL PRODUCT GUIDE

# MISTRAL-AIR®

Complete Forced Air  
Warming System, from  
Single-use Blankets to  
Warming Unit



# MISTRAL-AIR®

**Mistral-Air® is meticulously designed with simplicity at its core. The Mistral-Air portfolio confidently meets your insulation and active warming needs, streamlining processes and delivering a cost-effective solution.**

The Mistral-Air System is a forced-air warming system. Warm air is distributed by the Mistral-Air Warming Unit through a single-use blanket over the patient for patient warming.



## Safe:

- Advanced air filtration: safely warm your patients with the confidence that **99.95% of particles** have been filtered with our HEPA H13 filter<sup>1</sup>
- Forced Air Warming has proven to be safe to use in an operating room without disrupting laminar air flow<sup>2</sup>
- Advanced alarm systems allow you to safely and efficiently warm the patient without monitoring the device

## Smart & simple

- With Mistral-Air's user-friendly design, you can easily deliver the correct warming temperature at the push of a button
- Filter **lasts four times longer** than the other brands and can be changed with just a screwdriver<sup>3,4</sup>
- You don't need to manually monitor hours of use, as Mistral-Air tracks them for you and alerts you when the filter needs to be changed
- You can conveniently place Mistral-Air where you need it most with our mounting options and optional extra-long hose

The Mistral-Air Portfolio offers Plus blankets for conventional, efficient Forced Air Warming, or Premium Blankets produced with a reflective layer that can be used as Passive Warming when the Warming Unit is not connected.

## Mistral-Air MA1200-US

ONE BUTTON is all it takes to deliver the correct warming temperature quickly.

Article No.	MA1200-US
Length	6.3 in
Width	13.4 in
Height	15.7 in
Weight	11.46 lb
Settings	Ambient Air
	Low 32 °C (89.6 °F)
	Medium 38 °C (100.4 °F)
	High 43 °C (109.4 °F)
Filter indicator	Every 2000 hours



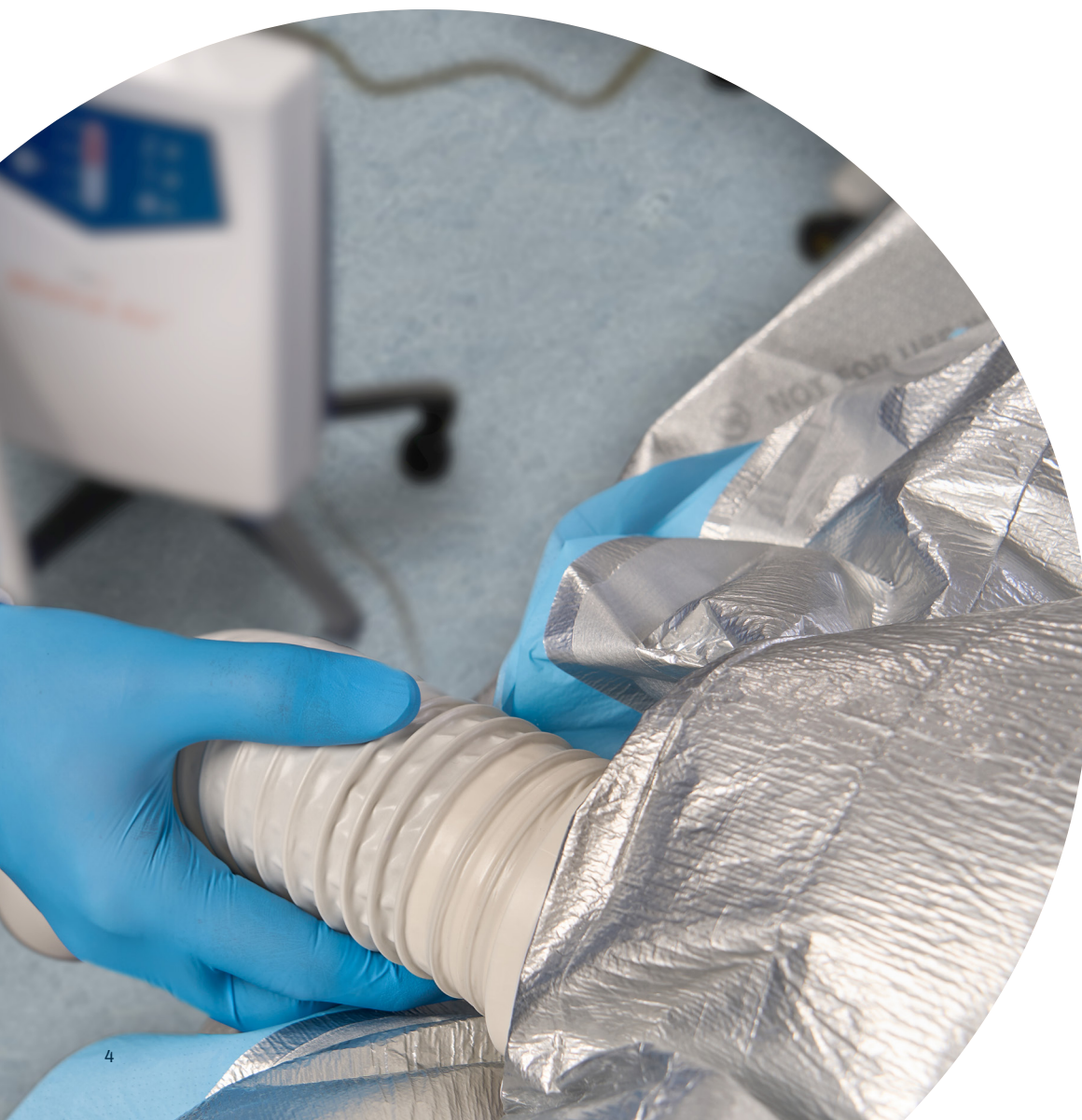
### Additional Features

- Default startup temperature of 38° C
- Over and under temperature alarms
- Quiet<sup>5</sup>, high-air flow warming unit

Innovation with purpose

# Optional Accessories MA1200-US

<b>MA1200-1001</b>	MA1200 HEPA Filter
<b>MA1018</b>	1.8 meter (5.9 ft) hose
<b>MA1018XL</b>	3 meter (9.84 ft) hose
<b>MA5200</b>	Height adjustable stand with MA5122 basket
<b>MA1018-QC</b> <b>MA1018XL-QC</b>	The Quick Connector makes the hose easy to attach, release, and clean, while reducing the risk of damage to the warming unit and hose
<b>MA5002</b> <b>Mounting Kit</b>	Standard Mounting – Universal mounting options Trolley or IV Pole ISO Bed Rail  Optional Mounting Extension Kit – Extend the number of options Extension Kit Bed Brackets Wall Mount Option



# Mistral-Air Blanket Portfolio

Mistral-Air Warming Blankets are available in numerous configurations for patient size and position-specific warming. The blankets are adaptable to most surgical cases, offering a safe, comfortable solution for the patient and a simple, effective tool for caregivers.

## Mistral-Air Premium Blankets – Reflective Technology

Mistral-Air Premium Blankets are designed to reduce heat loss from the skin to the environment. This gives our blankets a dual functionality:

- Passive warming through thermal insulation
- Active warming with additional insulation properties that minimize heat transfer to the surgeon

If a hospital typically uses multiple cotton linens per patient during pre, intra, and postoperative stages, switching to our Premium Blankets can cut linen use by at least 50%.<sup>7</sup>

This means:

- **Less work for staff handling linens**
- **A reduced environmental impact from washing and reprocessing**
- **Significant savings from updated practices**



<b>pre</b>	preoperative
<b>intra</b>	intraoperative
<b>post</b>	postoperative

**Innovation with purpose**

# Mistral-Air Standard Blankets

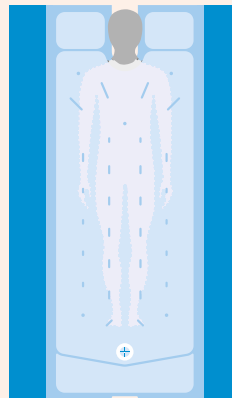
## Adult Blankets

**Plus:** MA2220  
**Premium:** MA3320  
**Size:** 89.4 x 52.4 in

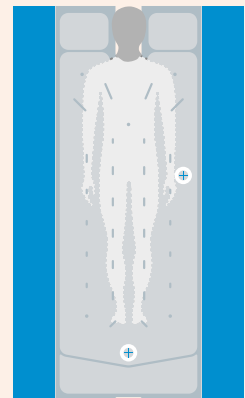
- 2 x air inlets Premium / 1 x air inlet plus
- Integrated tuck in flaps for optimum fixation of the blanket
- U-Shape neck space for optimum patient comfort

### Ideal for neck/head procedures:

- Maxillo-Facial
- Ear, Nose and Throat (ENT)
- Neurosurgery
- Thyroid
- Carotid
- Post-anesthesia Care Unit (PACU) & Intensive Care Unit (ICU)



MA2220



MA3320



pre intra post

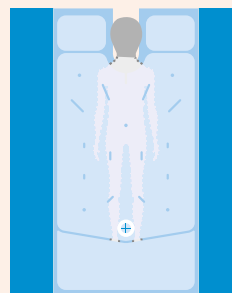
## Pediatric Blankets

**Plus:** MA2230  
**Premium:** MA3330  
**Size:** 65.4 x 52.4 in

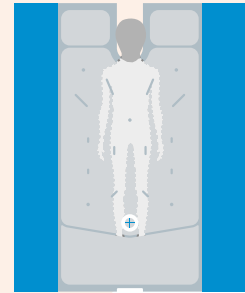
- 1 x air inlet
- Integrated tuck in flaps for optimum fixation of the blanket
- U-Shape neck space for optimum patient comfort

### Ideal for neck head procedures:

- Cleft Palate repair
- Facial/ear surgery
- Ped. Neurosurgery
- PACU & ICU



MA2230



MA3330



pre intra post

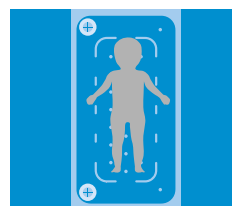
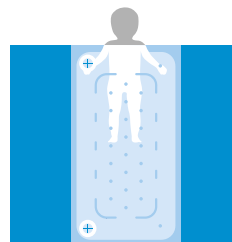
## Neonatal Blankets

**Plus:** MA2240  
**Premium:** MA3340  
**Size:** 45.7 x 52.4 in

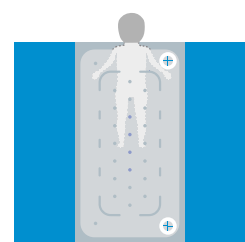
- 2 x air inlets
- Removable face shield
- Unique multifunctional positioning: can be used as underbody blanket as well as a blanket to cover the pediatric patient

### Ideal for neonatal surgery:

- Congenital abnormalities
- Hernia
- Cardiac
- Fistula
- PACU & ICU



MA2240



MA3340



pre intra post

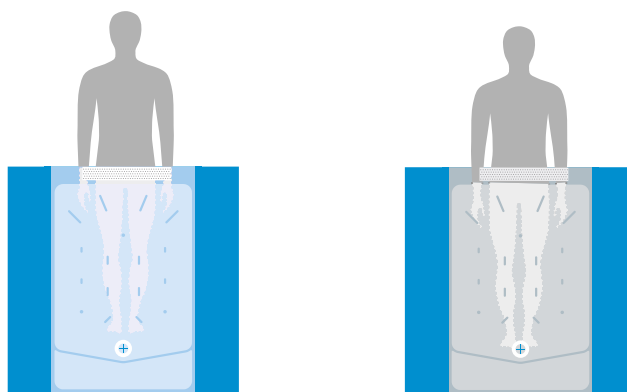
## Lower Body Blankets

**Plus:** MA2250  
**Premium:** MA3350  
**Size:** 52.0 x 52.4 in

- Side tuck-in flaps
- Adhesive tape
- 1 x air inlet

### Ideal for upper body/limbs procedures:

- Orthopedics (shoulder, arms, clavicle)
- Neurosurgery
- Plastic (breast & face)
- General Surgery
- Thoracic (VATS, MICABG)
- Vascular Surgery



MA2250

MA3350

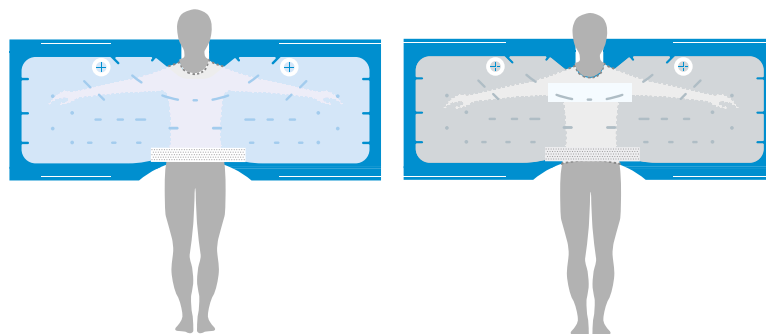


pre intra

## Upper Body Blankets

**Plus:** MA2260  
**Premium:** MA3360  
**Size:** 79.1 x 29.9 in

- U-Shape neck space
- 2 x air inlets
- Adhesive tape
- Fixed face shield
- 2 x 2 integrated tie strips



MA2260

MA3360

Turn the blanket 90 degrees during the preoperative phase for pre-warming!

### Ideal for lower body/limb procedures:

- Orthopedics (Lower limbs, ORIF, DHSIMHS)
- General Surgery (Hernia, appendectomy, laparoscopic)
- Gynecology
- Urology (TURP, TURBT, PCNL Cystectomy)

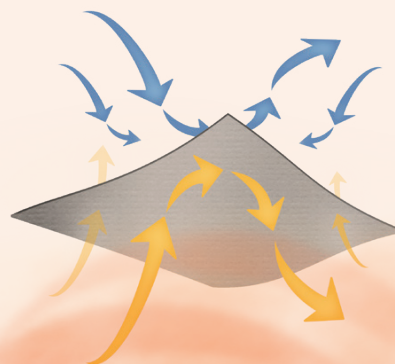


pre intra

## Reflective technology

Approximately 90% of patients' temperature loss during surgery occurs from the skin into the environment through radiation, convection, and evaporation. "Thus, minimizing heat loss during the perioperative period is (also) a priority."<sup>6</sup>

**Mistral-Air's Premium blankets with a reflective layer provide a dual benefit: superior patient insulation for passive warming and an efficient Forced Air Warming blanket.**

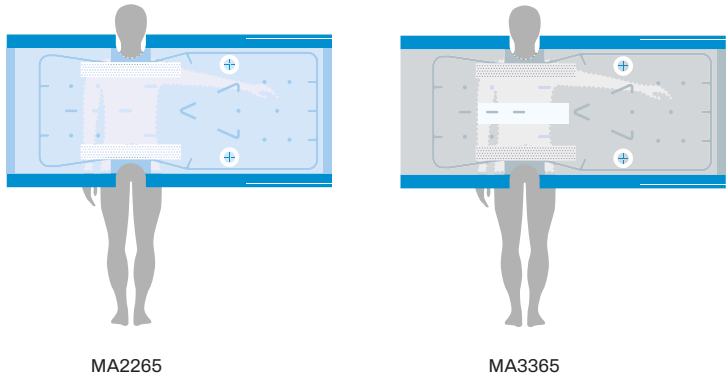


# Mistral-Air Standard Blankets

## Half Upper Body Blanket

**Plus:** MA2265  
**Premium:** MA3365  
**Size:** 63.0 x 29.9 in

- U-Shape neck space
- 2 x air inlets
- Adhesive tape
- Fixed face shield (only Premium)
- 2 x 1 integrated tie strips



Turn the blanket 90 degrees during the preoperative phase for pre-warming!

### Ideal for lower body/limb procedures (half crucifix):

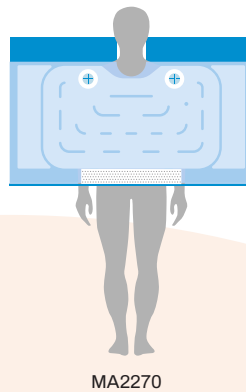
- Orthopedics (Lower limbs, ORIF, DHSIMHS)
- General Surgery (Hernia, appendectomy, laparoscopic)
- Gynecology
- Urology (TURP, TRUBT, PCNL)



## Torso Blanket

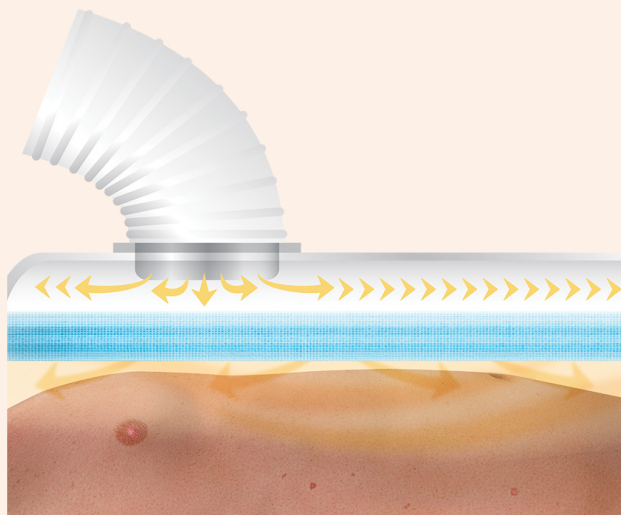
**Plus:** MA2270  
**Size:** 48.8 x 29.9 in

- U-Shape neck space
- 2 x air inlets
- 1 x adhesive tape
- Fixed face shield



### Ideal for lower body/limb procedures (arms to body):

- Orthopedics (Lower limbs, ORIF, DHSIMHS)
- General Surgery (Hernia, appendectomy, laparoscopic)
- Gynecology
- Urology (TURP, TRUBT, PCNL)



**Large volume of air +  
 Low pressure blanket**

## Controlled air diffusion

Mistral-Air Blankets in combination with the Mistral-Air Warming Unit do not float, they stay in position keeping warm air on the patient and helping to minimize the disruption of air flow in the surrounding environment. Also, there is no need for extra cotton blankets to hold the forced air blanket in place.

# Mistral-Air Underbody Blankets

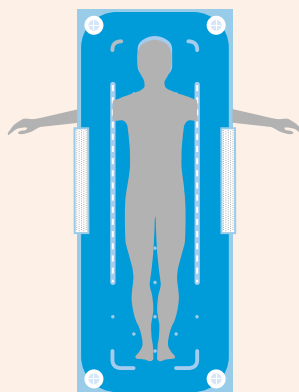
## Full Underbody Blankets

**Plus:** MA2400  
**Premium:** MA3400  
**Size:** 86.6 x 35.4 in

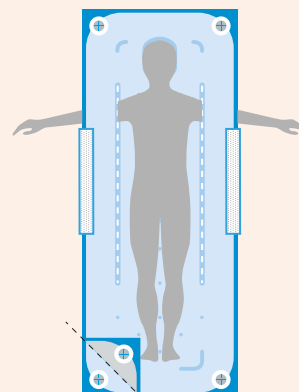
- 4 x air inlets
- 2 x Adhesive tape (1 piece each side)
- Removable face shield (Only Premium)
- Large warming surface (84% of blanket surface)
- Extra long perforated slits to put the arms through

### Our most flexible blanket. Ideal for:

- Orthopedics
- Cardiac Surgery: CABG, Valve replacement, CBP
- Liposuction
- General Surgery: open and laparoscopic
- Robotic surgery
- Thoracic surgery



MA2400



MA3400



pre intra

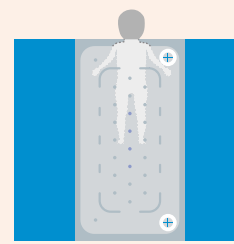
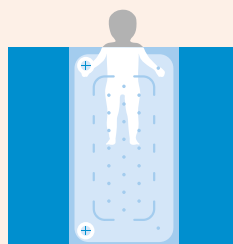
## Neonatal Blankets

**Plus:** MA2240  
**Premium:** MA3340  
**Size:** 45.7 x 52.4 in

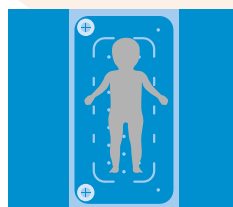
- 2 x air inlets
- Removable face shield
- Unique multifunctional positioning: can be used as underbody blanket as well as a blanket to cover the pediatric patient

### Ideal for neonatal surgery:

- Congenital abnormalities
- Hernia
- Cardiac
- Fistula
- PACU & ICU



MA3340



MA2240



pre intra post

# Mistral-Air Underbody Blankets

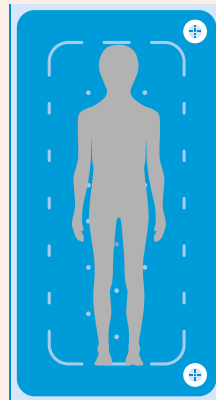
## Pediatric Underbody

**Plus:** MA2475  
**Premium:** MA3475  
**Size:** 66.1 x 35.4 in

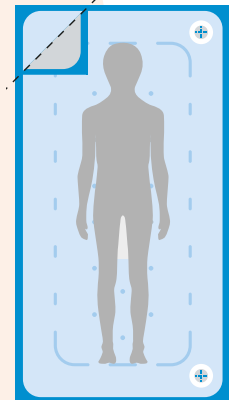
- 2 x air inlets
- Removable face shield
- Multifunctional positioning: can be rotated to have the air inlets on either side

### Ideal for full access to pediatric patients:

- Orthopedics (Lower limb Arthroscopy, Femoral Osteotomy)
- Cardiac (Open chest, CBP)
- General (Hernia, Appendectomy, laparoscopic, robotic)



MA2475



MA3475



pre intra post

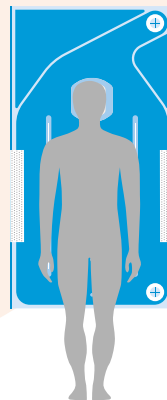
## Half Underbody Blankets

**Plus:** MA2450  
**Premium:** MA3450  
**Size:** 66.1 x 35.4 in

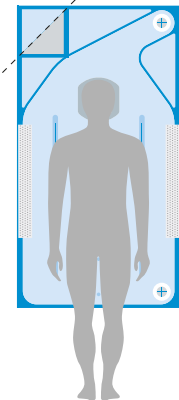
- 2 x air inlets
- 2 x adhesive tapes (1 piece each side)
- Removable face shield (Only Premium)
- Perforated slits to put the arms through

### Ideal for lower body and full access procedures:

- Orthopedics (Pelvis ORIF)
- Gynecology (Hysterectomies, vulval resection, laparoscopic)
- Urology (TURP, TURBT, PCNL, Radical Prostate, Cystectomy)
- Robotic surgery



MA2450



MA3450



pre intra post

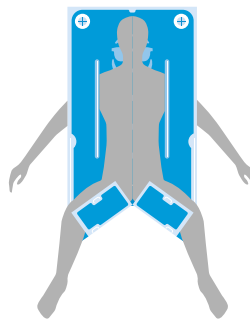
## Lithotomy Underbody Blankets

**Plus:** MA2455

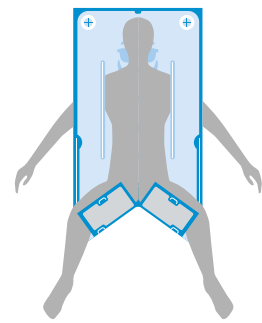
**Premium:** MA3455

**Size:** 65.9 x 35.4 in

- 2 x air inlets
- Perforated slits to put the arms through
- One tie strip per side to tie the blanket to the leg
- Unique leg cover to reduce heat loss from the upper leg



MA2455



MA3455

### Ideal for Gynecology and Urology procedures:

- Orthopedics (Pelvis ORIF)
- Gynecology (Vaginal hysterectomy, Vulval Resection, Vaginoplasty, Prolapse, Hysteroscopy)
- Robotic surgery
- Urology (TURP, TURBT, PCNL, Radical Prostate, Cystectomy)



pre intra post

## Tube

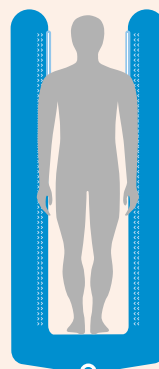
**Plus:** MA0510

**Size:** 68.1 x 5.9 in

- 1 x air inlet
- Can be used in different settings

### When full body cover is not possible, our Tube is ideal for full unrestricted access:

- Cath lab
- Procedures where blanket positioning is difficult.
- Ideal use in combination with a reflective Thermoflect® passive blanket



MA0510



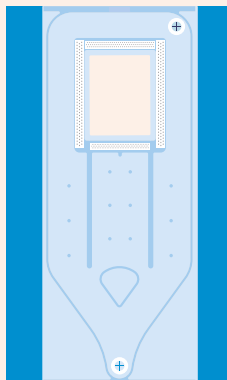
pre intra

# Mistral-Air Specialty Blankets

## Surgical Access Blanket (Sterile & Non-sterile)

**Sterile:** MA2280  
**Non-sterile:** MA2290  
**Size:** 86.6 x 52.4 in

- 1 x air inlet
- Integrated tuck in flaps for optimum fixation of the blanket
- 4 x adhesive tapes secure the surgical access window to the patient
- Surgical access window (20.8 x 16.1 in)
- Fixed face shield
- Positions easily in the sterile field.



MA2280 / MA2290

### Ideal for critical upper body procedures:

- Orthopedics (spinal)
- Transplants (kidney, liver, bowel)
- Liver resections
- Thoracic (lobectomy, bullectomy, pneumonectomy)
- Gynecology (Abdominal Hysterectomy)
- Urology (Nephrectomy, radical prostatectomy)
- Robotic surgery

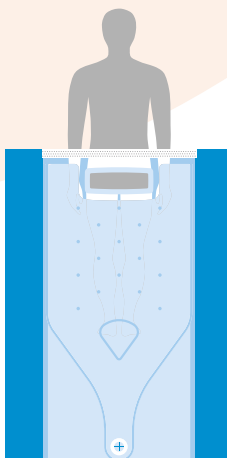


intra

## Lower Surgical Access Blanket (Sterile)

**Sterile:** MA2285  
**Size:** 72.0 x 52.4 in

- 1x air inlet
- 4 x adhesive tapes secure the surgical access window to the patient
- Integrated tuck in flaps for optimum fixation of the blanket
- Surgical access window (15.8 x 6.2 in)
- Positions easily in the sterile field. The clear groin/femoral access window allows for easy access to the femoral artery



MA2285

### Ideal for upper body critical procedures:

- Cardiac (CABG, Valve replacement mitral/aortic, TAAA CPB Procedures, Thoracic Aortic surgery, Pulmonary Thromboembolism)



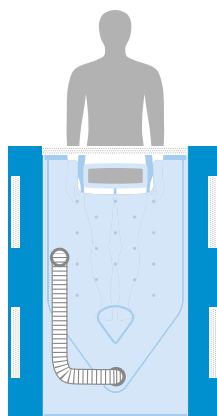
intra

### Cardiac Blanket (Sterile)

**Sterile:** MA2286  
**Size:** 66.9 x 52.4 in

- 1 x air inlet (sterile hose extension)
- 4 x adhesive tapes secure the surgical access window to the patient
- Adhesive tape secures the surgical access window to the patient.
- Surgical access window (15.8 x 6.2 in)

Positions easily in the sterile field. The pre-attached 3-foot hose allows for placement of the warming unit outside the sterile field



MA2286

### Designed for Cardiac procedures:

- Cardiac (CABG, Valve replacement mitral/aortic, TAAA CPB Procedures, Thoracic Aortic surgery, Pulmonary Thromboembolism)



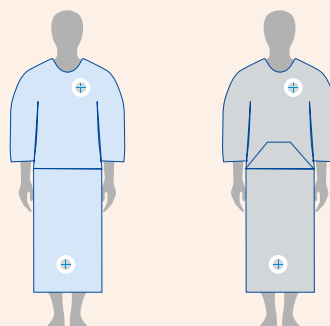
intra

### Mistral-Air Warming Suits: 3 solutions in one

1. Hospital gown
2. Upper or lower body Forced Air Warming blanket
3. Passive Warming

### Additional features:

- Adjustable Velcro neckline
- Sleeve can be opened for easy access for IV arm placement
- Soft comfortable material
- Velcro fasteners for arm sleeves



pre intra post

# Product list and details

	Reference number	Blanket size (in x in)	Warming surface (in x in)	Weight (lbm)	Air inlets qtyw	Face shield	Adhesive Tape on width
<b>Standard Blankets</b>							
Adult Plus	MA2220	89.4 x 52.4	68.1 x 31.1	0.4	1		
Paediatric Plus	MA2230	65.4 x 52.4	31.1 x 39.8	0.29	1		
Neonatal Plus	MA2240	45.7 x 52.4	42.5 x 22.5	0.28	2	Removable	
Lower Body Plus	MA2250	52.0 x 52.4	37.2 x 31.1	0.26	1		1
Upper Body Plus	MA2260	79.1 x 29.9	74.0 x 22.8	0.25	2	Fixed	1
Half Upper Body Plus	MA2265	63.0 x 29.9	54.1 x 22.8	0.22	2	Fixed	1 per side
Torso Plus	MA2270	48.8 x 29.9	35.4 x 20.9	0.18	2	Fixed	1
Premium Adult	MA3320	89.4 x 52.4	68.1 x 31.1	0.44	2		
Premium Paediatric	MA3330	65.4 x 52.4	31.1 x 39.8	0.32	1		
Premium Neonatal	MA3340	45.7 x 52.4	42.5 x 22.5	0.3	2	removable	
Premium Lower Body	MA3350	52.0 x 52.4	37.2 x 31.1	0.28	1		1
Premium Upper Body	MA3360	79.1 x 29.9	74.0 x 22.8	0.27	2	Fixed	1
Premium Half Upper Body	MA3365	63.0 x 29.9	54.1 x 22.8	0.25	2	Fixed	1 per side
<b>Speciality Blankets</b>							
Lower Surgical Access Plus Sterile	MA2285	72.0 x 52.4	35.0 x 33.1	0.39	1		1
Surgical Access Plus Sterile	MA2280	86.6 x 52.4	51.0 x 33.1	0.45	2	Fixed	inside surgical access
Surgical Access Plus	MA2290	86.6 x 52.4	51.0 x 33.1	0.43	2	Fixed	inside surgical access
Cardiac Blanket Plus Sterile	MA2286	66.9 x 52.4	29.3 x 33.1	0.91	1		1
<b>Underbody Blankets</b>							
Full Underbody Plus	MA2400	86.6 x 35.4	85.0 x 33.1	0.41	4		
Half Underbody Plus	MA2450	66.1 x 35.4	40.2 x 33.1	0.32	2		
Paediatric Underbody Plus	MA2475	66.1 x 35.4	64.2 x 33.1	0.3	2	Removable	
Tube	MA0510	68.9 x 5.9	6.7 x 5.91	0.15	1		
Lithotomy Plus	MA2455	66.0 x 35.4	47.3 x 33.1	0.29	2		
Premium Full Underbody	MA3400	86.6 x 35.4	85.0 x 33.1	0.49	4	removable	
Premium Half Underbody	MA3450	66.1 x 35.4	40.2 x 33.1	0.38	2	removable	
Premium Paediatric Underbody	MA3475	66.1 x 35.4	64.2 x 33.1	0.36	2	removable	
Premium Lithotomy	MA3455	66.0 x 35.4	47.2 x 33.1	0.31	2		
Neonatal Plus	MA2240	45.7 x 52.4	42.5 x 22.5	0.28	2	Removable	
Premium Neonatal	MA3340	45.7 x 52.4	42.5 x 22.5	0.3	2	removable	



# TSC LIFE

## Innovation with purpose

1. **Filtration HEPA H13 class fi lter, conform EN 1822-1:2019 / ISO 29463-5:2022**
2. Shirozu K, Kai T, Setoguchi H, Ayagaki N, Hoka S. Effects of forced air warming on airflow around the operating table. *Anesthesiology*. 2018;128(1):79-85. doi:10.1097/ALN.0000000000001922.
3. Internal document: **DMT Test Report No. APS 2 00 056 17.1, by DMT GmbH & Co. KG, Germany. 2000 hours Filter Service Alarm.**
4. Bair Hugger Service Manual, Bair Hugger Model 775 Warming Unit. 19th ed. Eden Prairie, MN: 3M Health Care; p. 19. & Cincinnati Sub Zero Warmair Model 135 Manual. 4th ed. Cincinnati, OH: Cincinnati Sub Zero Products, Inc.; p. 17.
5. Test. 48 dB with blanket attached. 2220997.50 by DEKRA, February 2018
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TSC Life US Inc.

Manufactured by: The Surgical Company International B.V.

6400 S Fiddlers Green Circle, Suite 305 | Greenwood Village | CO 80111 | Colorado | United States

T +1 7652056030 | [letsconnect@tsc-life.com](mailto:letsconnect@tsc-life.com) | [www.tsc-life.com](http://www.tsc-life.com)