

TSC LIFE

MISTRAL-AIR[®]

Forced Air Warming System

Designed to stay ahead of the temperature drop – because the first 30 minutes matter most.¹⁻³

FULL PRODUCT GUIDE



tsc-life.com

MISTRAL-AIR[®] FORCED AIR WARMING SYSTEM

Elevating Patient Warming with Proven Innovation

Temperature management is a controllable variable from the start of care, with the first 30 minutes being especially critical. Mistral-Air[®] helps teams act early with close-fit blankets and warming suits designed for different procedures, positions and access needs.

Mistral-Air[®] MA1400 reaches operating temperature in under 30 seconds¹⁻³, helping reduce delay when timely warming matters most. Its default start-up temperature, display-free interface and simple three-button design make warming easy to initiate and maintain.

Mistral-Air[®] blankets are specially engineered to work seamlessly with the warming unit, providing consistent and efficient warmth for the patient.

Minimizes delays when early warming is essential^{1,2,3}

Reaches 38°C in under 30 seconds

Protects your team's focus during critical phases of care¹

Low-noise operation (48/53 dB)

Simplifies warming initiation and reduces operational burden¹

Default start-up temperature of 38°C and only three-button operation

Supports infection control and patient protection^{1,6}

HEPA H13 filter removes ≥ 99.95% of airborne particles

Easier to position in crowded and busy OR environments^{1,4,5}

Compact and lightweight design (4.4 kg / 9.7 lbs)

Lasts four times longer than competing systems^{7,8}

2,000-hour HEPA filter life

Mistral-Air® MA1400 Forced Air Warming unit

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

Article No.	MA1400-230	MA1400-115
Voltage, Frequency, Current	220-240 V~, 50/60 Hz, 3.5 A	100-125 V~, 50/60 Hz, 7A
Average power at 43°C	675 W	800 W
Dimensions	250 x 250 x 380 mm (L x W x H)	9.84 x 9.84 x 14.96 inches (L x W x H)
Weight	4.4 kg	9.7 lbs
Device sound pressure	48 dB(A)	53 dB(A)
Hose / Hose XL length	1.8 m / 3 m	5.91 feet / 9.84 feet
Power cord length	> 4.0 m	> 13.12 feet
Set temperature	Ambient air, 32 °C, 38 °C, 43 °C	Ambient air, 89.6 °F, 100.4 °F, 109.4 °F
Filtration	HEPA H13 Class filter, conform EN 1822-1:2019	HEPA H13 Class filter, conform ISO 29463-5:2022
Limited Warranty	2 years	2 years
Classification	MDR 2017/745/EU Class II 0344	FDA Classification Class II
Classification IEC 60601-1	Class I, Body Floating (BF)	Class I, Body Floating (BF)
Classification IEC 60529	IP21	IP21

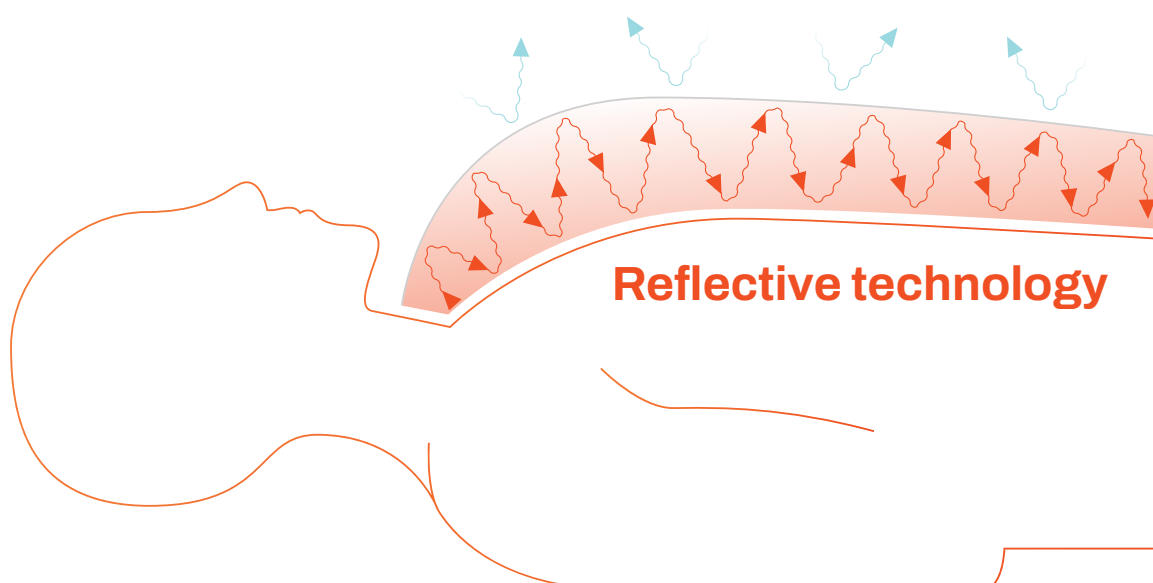


Innovation with purpose



Optional Accessories MA1400

MA1410	Mistral-Air® MA1400 wheel base	Box of 1
MA1401	Mistral-Air® MA1400 HEPA Filter	Box of 18
MA1020	Mistral-Air® Hose Clamp with wire	Box of 10
MA1018	Mistral-Air® 1.8m Hose	Box of 1
MA1018-XL	Mistral-Air® 3m Hose	Box of 1



Mistral-Air® Warming Blankets & Suits portfolio

Mistral-Air® Warming Blankets and Suits provide patient coverage across a wide range of procedures and positions. Diffusion technology helps distribute warm air across the skin surface, while Premium blankets use reflective technology to help retain warmth and reduce excess heat loss during surgery or transport.

Mistral-Air® Blankets Plus & Warming Suits

Mistral-Air® Blankets Plus and Warming Suits support warming across complex surgical setups.

- Broad portfolio includes standard, underbody, specialty blankets and warming suits.
- Designed to accommodate a wide range of patient positions and procedural access needs.
- Procedure-specific designs help preserve access to the surgical field.
- Blanket designs support efficient heat transfer during forced air warming.
- Optimal heat transfer towards patient.
- No floating, thanks to controlled air diffusion.

Mistral-Air® Premium Blankets and Suits

Thermal Continuity and Heat Retention

Mistral-Air® Premium Blankets and Premium Warming Suits support prewarming and thermal continuity where temperature stability is essential.

- Combine active forced air warming with passive insulation.
- Help reduce heat loss throughout the perioperative pathway, including during transport.
- **Reflective technology** helps keep warmth around the patient instead of releasing excess heat into the operating environment.
- May reduce reliance on additional linens when used with the forced air warming unit.
- Help minimize warming workarounds and interruptions.
- Support more consistent heat retention, reducing the need for reactive warming later in the case.
- Can reduce cotton linen usage by at least 50%.⁹



Innovation with purpose

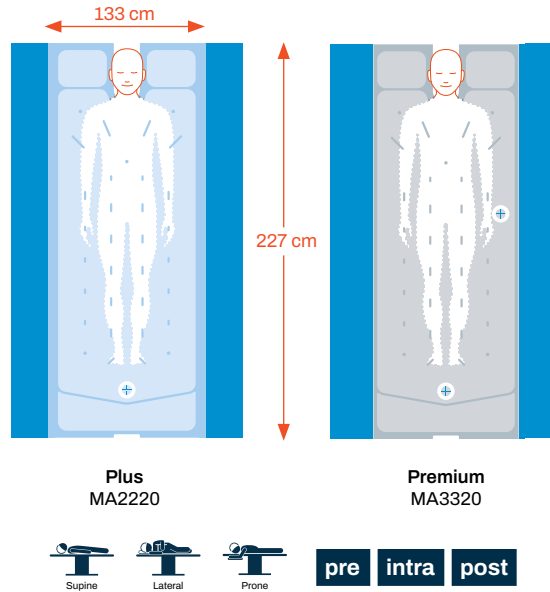
Mistral-Air® Warming Blankets

Adult

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 and head procedures:

Maxillo-Facial

Ear, Nose and Throat (ENT)

Neurosurgery

Thyroid

Carotid

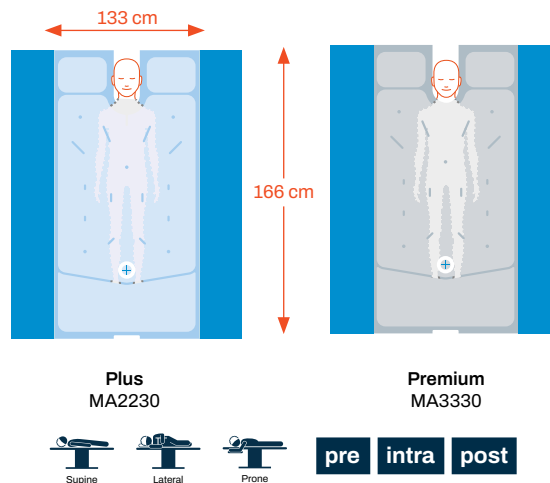
Post-anesthesia Care Unit (PACU) & Intensive Care Unit (ICU)

Paediatric (> 1 year old)

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 and head procedures:

Cleft Palate Repair

Facial/Ear Surgery

Ped. Neurosurgery

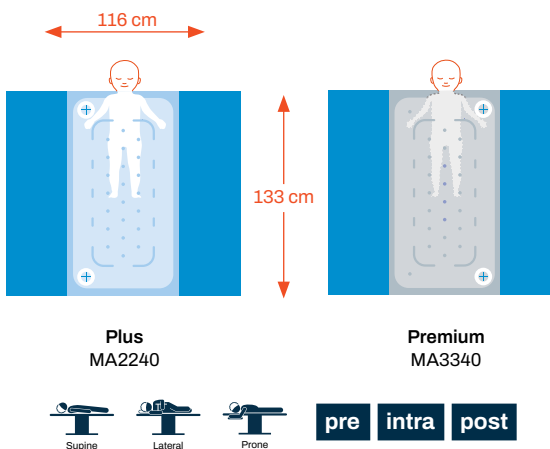
PACU & ICU

Neonatal (< 1 year old)

2 x air inlets

Removable face shield

Unique multifunctional positioning: can be used as underbody blanket as well as a blanket to cover the Paediatric patient



Ideal for neonatal surgery:

Congenital Abnormalities

Hernia

Cardiac

Fistula

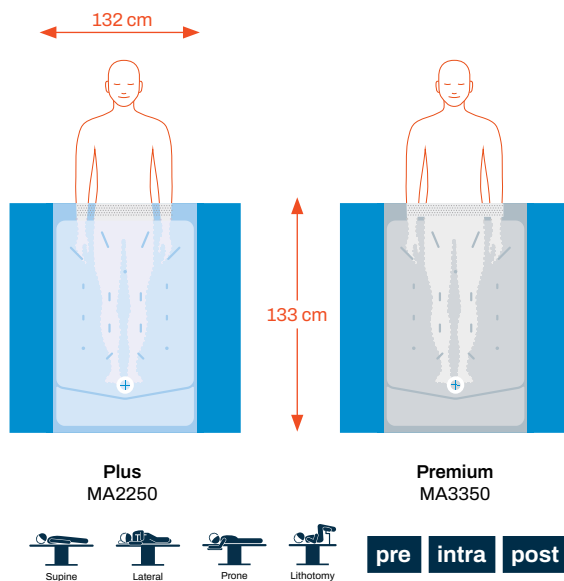
PACU & ICU

Lower Body

Integrated tuck-in flaps for optimum fixation of the blanket

Adhesive tape

1 x air inlet



Ideal for upper body and limbs procedures:

Orthopedics (Shoulder, Arms, Clavicle)

Neurosurgery

Plastic (Breast & Face)

General Surgery

Thoracic (VATS, MICABG)

Vascular Surgery

Upper Body

U-Shape neck space

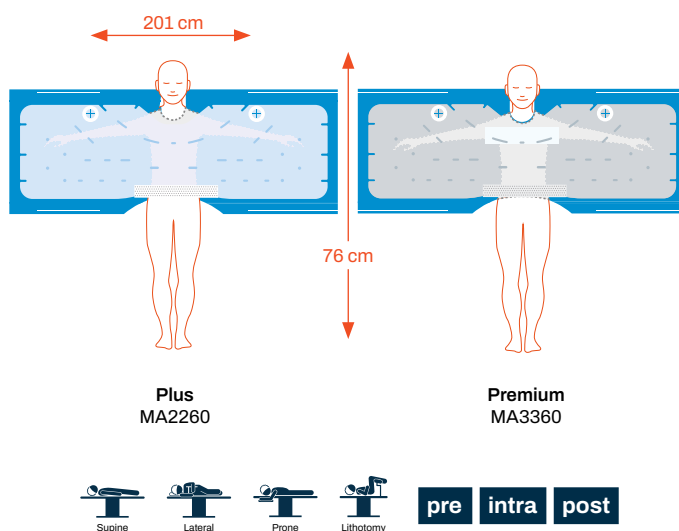
2 x air inlets

Adhesive tape

Fixed face shield

2 x 2 integrated tie strips

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



Ideal for lower body and limb procedures:

Orthopedics (Lower Limbs, ORIF, DHSIMHS)

General Surgery (Hernia, Appendectomy, Laparoscopic)

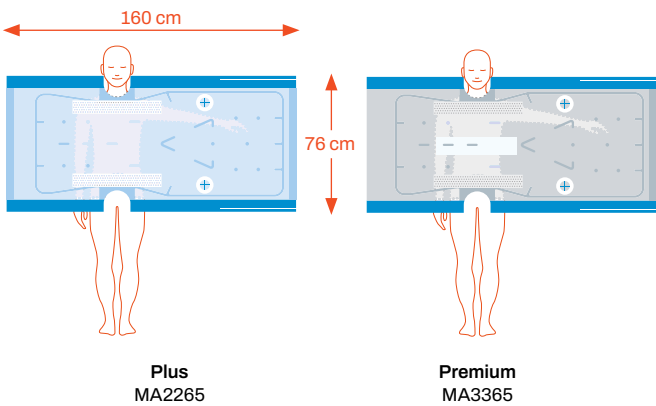
Gynecology

Urology (TURP, TURBT, PCNL Cystectomy)

Mistral-Air® Warming Blankets

Half Upper Body

- 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!



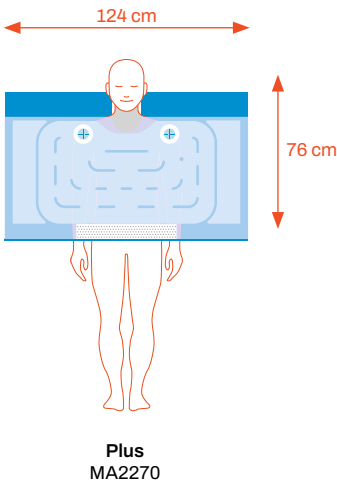
Ideal for lower body and limb procedures (half crucifix):

- Orthopedics (Lower Limbs, ORIF, DHSIMHS)
- General Surgery (Hernia, Appendicectomy, Laparoscopic)
- Gynecology
- Urology (TURP, TURBT, PCNL, Cystectomy)



Torso

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



Ideal for lower body and limb procedures (arms to body):

- Orthopedics (Lower Limbs, ORIF, DHSIMHS)
- General Surgery (Hernia, Appendicectomy, Laparoscopic)
- Gynecology
- Urology (TURP, TRUBT, PCNL Cystectomy)



Mistral-Air® Underbody Blankets

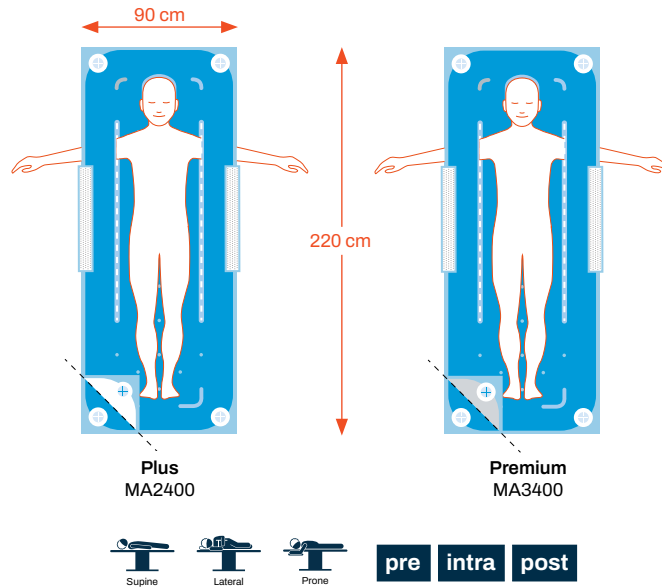
Full Underbody

4 x air inlets

2 x adhesive tape
(1 piece each side)

Removable face shield
(Only Premium)

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

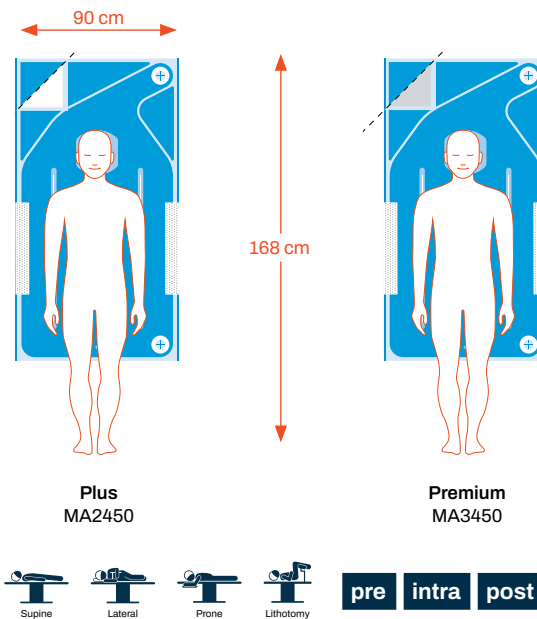
Half Underbody

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

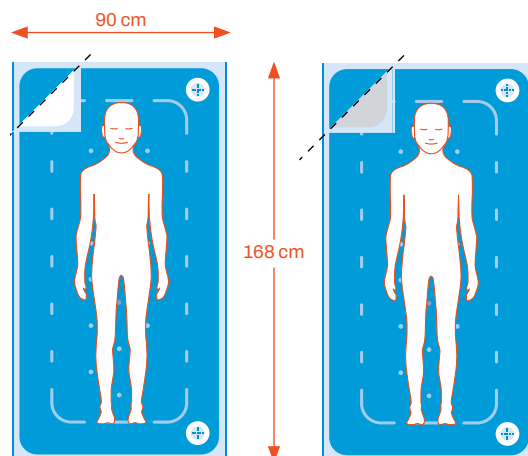
Mistral-Air® Underbody Blankets

Paediatric Underbody (> 1 year old)

2 x air inlets

Removable face shield

Multifunctional positioning:
can be rotated to have the air
inlets on either side



Plus
MA2475

Premium
MA3475



pre intra post

Ideal for full access to Paediatric patients:

Orthopedics (Lower Limb Arthroscopy, Femoral Osteotomy)

Cardiac (Open Chest, CBP)

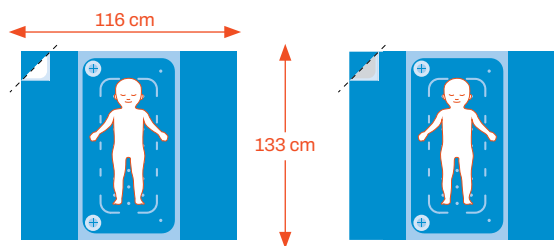
General (Hernia, Appendicectomy, Laparoscopic, Robotic)

Neonatal (< 1 year old)

2 x air inlets

Removable face shield

Unique multifunctional positioning:
can be used as underbody blanket
as well as a blanket to cover
the paediatric patient



Plus
MA2240

Premium
MA3340



pre intra post

Ideal for neonatal surgery:

Congenital Abnormalities

Hernia

Cardiac

Fistula

Recovery

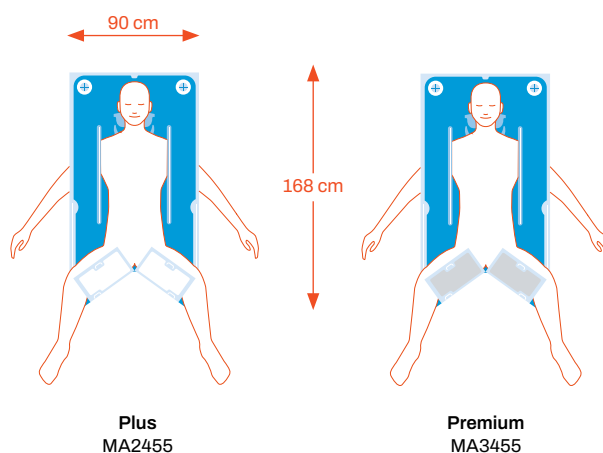
Lithotomy

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



Ideal for Gynecology and Urology procedures:

Orthopedics (Pelvis ORIF)

Gynecology (Vaginal Hysterectomy, Vulval Resection, Vaginoplasty, Prolapse, Hysteroscopy)

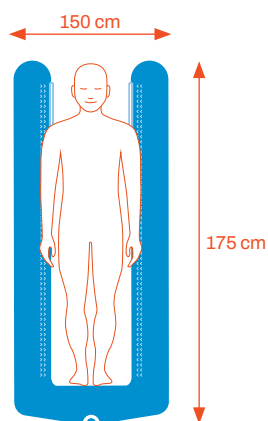
Robotic Surgery

Urology (TURP, TURBT, PCNL, Radical Prostate, Cystectomy)

Tube

1 x air inlet

Can be used in different settings



MA0510



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

Mistral-Air® Specialty Blankets

Surgical Access (Sterile & Non-sterile)

2 x air inlet

Integrated tuck-in flaps for optimum fixation of the blanket

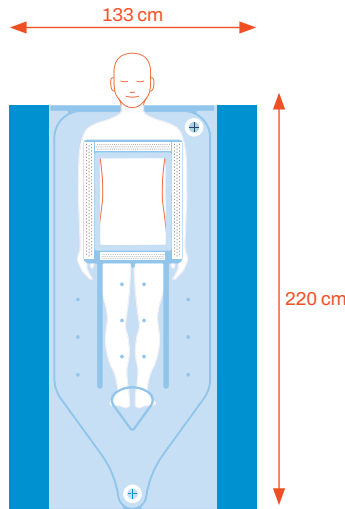
4 x adhesive tapes secure the surgical access window to the patient

Surgical access window (53 x 41 cm)

Fixed face shield

Positions easily in the sterile field

Surgeons can easily enlarge the surgical field up to 70 cm



Sterile
MA2280

Non-sterile
MA2290



intra

Ideal for critical upper body procedures:

Orthopedics (Spinal)

Transplants (Kidney, Liver, Bowel)

Liver Resections

Thoracic (Lobectomy, Bullectomy, Pneumectomy)

Gynecology (Abdominal Hysterectomy)

Urology (Nephrectomy, Radical Prostatectomy)

Robotic Surgery

Lower Surgical Access (Sterile)

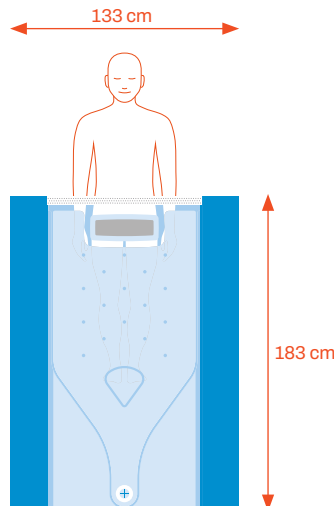
1x air inlet

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 (40 x 16 cm)

Positions easily in the sterile field. The clear groin/femoral access window allows for easy access to the femoral artery



Sterile
MA2285



intra

Ideal for upper body critical procedures:

Cardiac (CABG, Valve Replacement Mitral/Aortic, TAAA CPB procedures, Thoracic Aortic Surgery, Pulmonary Thromboembolism)

Cardiac (Sterile)

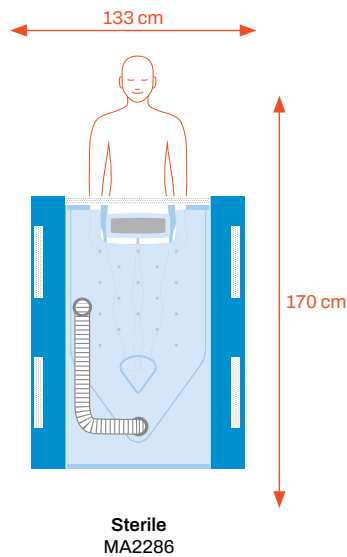
1 x air inlet (sterile hose extension)

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 (40 x 16 cm)

Positions easily in the sterile field.
The pre-attached 3-foot (91 cm) hose allows for placement of the warming unit outside the sterile field



Designed for Cardiac procedures:

Cardiac (CABG, Valve Replacement Mitral/Aortic, TAAA CPB Procedures, Thoracic Aortic Surgery, Pulmonary Thromboembolism)



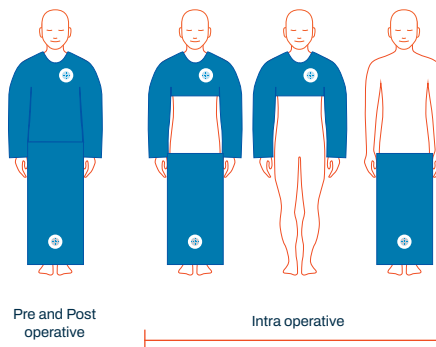
Mistral-Air® Warming Suits: 3 solutions in one

The Mistral-Air® Warming Suit is well suited to being used in cases of high hypothermia risk surgeries such as organ transplants and liver and robotic surgeries.

The suit ensures that the patient's entire body can be kept warm and does not cool down before, during and after surgery.

3 in One:

1. Hospital gown
2. Upper and/or Lower Body blanket
3. Extra cotton blankets



Additional features:

Adjustable Velcro fastener ensures the suit can easily be opened and then shut again for such things as ECG cables

Full back access for procedures like Lumbar Puncture

The sleeves are readily detachable for such things as infusion lines and the blood pressure meter

Soft non-woven material combined with efficiently insulating Thermoflect® reflective material

Also available in Premium (reflective)

Product list and details

	REF	Size (mm)	Warming surface (mm)	Weight (g)	Air inlet(s)	Face shield	Adhesive On width	
Mistral-Air® Warming Blankets								
Adult Plus	MA2220	2270 x 1330	1730 x 790	180	1			
Paediatric Plus	MA2230	1660 x 1330	790 x 1010	131	1			
Neonatal Plus	MA2240	1160 x 1330	1080 x 570	126	2	Removable		
Lower Body Plus	MA2250	1320 x 1330	945 x 790	115	1		1	
Upper Body Plus	MA2260	2010 x 760	1880 x 580	110	2	Fixed	1	
Half Upper Body Plus	MA2265	1600 x 760	1375 x 580	98	2	Fixed	1 per side	
Torso Plus	MA2270	1240 x 760	900 x 530	78	2	Fixed	1	
Premium Adult	MA3320	2270 x 1330	1730 x 790	198	2			
Premium Paediatric	MA3330	1660 x 1330	790 x 1010	144	1			
Premium Neonatal	MA3340	1160 x 1330	1080 x 570	132	2	Removable		
Premium Lower Body	MA3350	1320 x 1330	945 x 790	124	1		1	
Premium Upper Body	MA3360	2010 x 760	1880 x 580	120	2	Fixed	1	
Premium Half Upper Body	MA3365	1600 x 760	1375 x 580	109	2	Fixed	1 per side	
Mistral-Air® Underbody blankets								
Full Underbody Plus	MA2400	2200 x 900	2160 x 840	184	4			
Half Underbody Plus	MA2450	1680 x 900	1020 x 840	141	2			
Lithotomy Plus	MA2455	1675 x 900	1200 x 840	129	2			
Paediatric Underbody Plus	MA2475	1680 x 900	1630 x 840	133	2	Removable		
Neonatal Plus	MA2240	1160 x 1330	1080 x 570	126	2	Removable		
Premium Full Underbody	MA3400	2200 x 900	2160 x 840	219	4	Removable		
Premium Half Underbody	MA3450	1680 x 900	1020 x 840	168	2	Removable		
Premium Lithotomy	MA3455	1675 x 900	1200 x 840	140	2			
Premium Paediatric Underbody	MA3475	1680 x 900	1630 x 840	163	2	Removable		
Premium Neonatal	MA3340	1160 x 1330	1080 x 570	132	2	Removable		
Mistral-Air® Specialty Blankets								
Lower Surgical Access Plus Sterile	MA2285	1830 x 1330	890 x 840	174	1		1	
Surgical Access Plus Sterile	MA2280	2200 x 1330	1297 x 840	203	2	Fixed	4 inside surgical access	
Surgical Access Plus	MA2290	2200 x 1330	1297 x 840	194	2	Fixed	4 inside surgical access	
Cardiac Blanket Plus Sterile	MA2286	1700 x 1330	745 x 840	410	1		1	
Tube	MA0510	1750 x 150	170 x 150	65	1			

Tape On length	Blankets per box (pcs)		REF	Patient height (cm)	Air Inlet(s)
Mistral-Air® Warming Suits (Box - 10 pcs)					
	40 pcs	Mistral-Air® Warming Suit, S	MA1710	≤ 165	2, 1 on upper and 1 on lower part
	40 pcs	Mistral-Air® Warming Suit, M/L	MA1720	165-195	
	40 pcs	Mistral-Air® Warming Suit, XL	MA1740	≥ 195	
	40 pcs	Mistral-Air® Premium Warming Suit, M	MA1620	165-180	
	40 pcs	Mistral-Air® Premium Warming Suit, L	MA1630	180-195	
Mistral-Air® MA1400 Warming units and Accessories					
	40 pcs	Mistral-Air® MA1400 Forced Air Warming unit (220-240V)	MA1400-230		
	40 pcs	Mistral-Air® MA1400 Forced Air Warming unit (110-120V)	MA1400-115		
	40 pcs	Mistral-Air® MA1400 wheel base	MA1410		
	40 pcs	Mistral-Air® MA1400 HEPA Filter	MA1401		
	40 pcs	Mistral-Air® Hose Clamp with wire	MA1020		
	40 pcs	Mistral-Air® Hose Clamp	MA5001		
	40 pcs	Mistral-Air® Hose 1.8m	MA1018		
		Mistral-Air® Hose XL (3m)	MA1018-XL		
1 per side	40 pcs		Reference number	Ref Quick-Connect	
1 per side	40 pcs		Mistral-Air® MA1200 Warming units and Accessories		
	40 pcs	Mistral-Air® 1200 Forced Air Warming unit (220-240V)	MA1200-EU	MA1200-QC-EU	
	40 pcs	Mistral-Air® 1200 Forced Air Warming unit (110-120V)	MA1200-US	MA1200-QC-US	
1 per side	40 pcs	Mistral-Air® MA1200 Adjustable Pole with Basket	MA5250		
1 per side	40 pcs	Mistral-Air® MA1200 Mounting parts	MA5002		
	40 pcs	Mistral-Air® Hose clamp	MA5001		
	40 pcs	Mistral-Air® Adjustable Pole with Basket	MA5250		
	40 pcs	Mistral-Air® MA1200 - Filter (TSCI0017)	MA1200-1001		
		Mistral-Air® Hose (1.8m)	MA1018	MA1018-QC	
1 per side	20 pcs	Mistral-Air® Hose XL (3m)	MA1018-XL	MA1018XL-QC	
	20 pcs				
	20 pcs				
	10 pcs				
	100 pcs				





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more information

Innovation with purpose



Innovation with purpose

References

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3. Sessler DI, Todd MM (Editor). Anesthesiology 2000;92(2):578–96. doi:10.1097/00000542-200002000-00042.
4. 3M Health Care. Bair Hugger Temperature Management Unit Model 775. 2013.
5. Cincinnati Sub-Zero Products, LLC. WarmAir Operation and Technical Manual: Model 135 Warming Unit. 2018.
6. European Committee for Standardization. EN 1822-1:2019. High efficiency air filters (EPA, HEPA and ULPA) – Part 1: Classification, performance testing, marking. Brussels:
7. Internal document: DMT Test Report No. APS 2 00 056 17.1, by DMT GmbH & Co. KG, Germany. 2000 hours Filter Service Alarm.
8. 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.
9. Bergroth L. Quality Initiative Collaborative Leads to Reduction in Linen Usage and Overall Cost Savings.

The use of our medical equipment is solely intended for the use of healthcare professionals. Healthcare professionals have the obligation to exercise their own professional clinical judgment when determining the suitability of a specific product for treating an individual patient. TSC Life does not provide medical advice and strongly advises healthcare professionals to undergo training on the usage of any specific product before using it. Healthcare professionals should consistently refer to the package insert, product label, and/or instructions for use, including guidelines for cleaning and sterilization (if applicable), before utilizing any product supplied by TSC Life. The information presented aims to display specific products and the extensive range of offerings from TSC Life. Availability of products may vary across markets due to regulatory and/or medical practices specific to each region. For inquiries regarding the availability of specific TSC Life products in your area, please reach out to your TSC Life representative.

TSC Life

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