



# Actively manage normothermia through the perioperative journey



**3M™ Ranger™**

Blood/Fluid and Irrigation Fluid  
Warming Systems and Pressure Infusors

**3M™ Bair Hugger™**

Temperature Management Solutions

# Solventum™ Temperature Management Solutions

Solventum helps change people's lives for the better. By applying our knowledge to clinicians' needs, we have developed a broad configuration of temperature management solutions. The 3M™ Bair Hugger™ Temperature Monitoring System, 3M™ Bair Hugger™ Warming System, and 3M™ Ranger™ Blood/Fluid and Irrigation Fluid Warming Systems and Pressure Infusors aim to standardize temperature management worldwide, helping deliver positive patient experiences and outcomes.

Learn how Solventum Temperature Management Solutions can help your clinical teams at [bairhugger.com](https://www.bairhugger.com) and [rangerfluidwarming.com](https://www.rangerfluidwarming.com).

## 3M™ Bair Hugger™ Warming System

*Warming Units / Warming Gowns /  
Warming Blankets*

**3M™ Bair Hugger™**

## 3M™ Bair Hugger™ Temperature Monitoring System

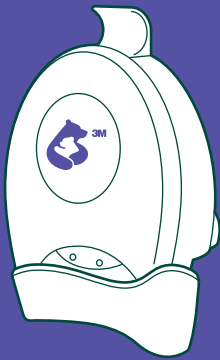
*Control Unit / Sensor*

## 3M™ Ranger™ Blood/Fluid and Irrigation Fluid Warming Systems and Pressure Infusors

*Warming Units / Warming Sets/  
Pressure Infusor*

**3M™ Ranger™**

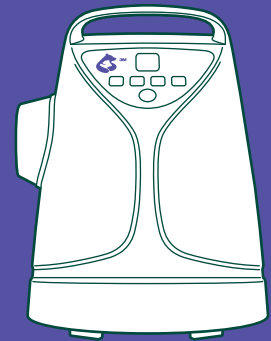
# 3M™ Bair Hugger™ Warming Units



3M™ Bair Hugger™ Patient  
Adjustable Warming  
Unit Model 875



3M™ Bair Hugger™  
Warming Unit Model 775



3M™ Bair Hugger™  
Warming Unit Model 675

# 3M™ Bair Hugger™ Patient Adjustable Warming Unit Model 875

For use in preoperative and postoperative settings only.

- Personalized comfort as patients can control the unit’s airflow and temperature — ambient to 109°F (43°C)
- Flexibility in mounting the unit on the wall, a bedrail or an IV pole; the unit can also be placed on a flat surface
- Built-in hose storage
- Compatible with 3M™ Bair Hugger™ Flex Warming Gown, 3M™ Bair Hugger™ Plus Warming Gown and 3M™ Bair Hugger™ OR Warming Gown



Model 875	
Dimensions	Height: 13" (33 cm)   Width: 7.7" (19.6 cm)   Depth: 4" (10.2 cm)
Weight	7.0 lb (3.2 kg)
Operating temperatures	User adjustable ambient to 109°F (43°C) ±3°C
Filter	Dust filter
Device ratings	100–120 VAC: 50/60 Hz, 4.6 Amps
Compatibility	Use only with 3M™ Bair Hugger™ Warming Gowns
Spare parts and additional items	Controller, Controller Holder, IV Pole Mount, Mounting Brackets, Suction Mount Adapter, Temperature Test Unit, Wall Mount, Wall-to-Rail Mount

# 3M™ Bair Hugger™ Warming Unit Model 775

For use in all clinical settings.

- Four temperature settings including an ambient setting
- Two airflow settings
- Hose-end temperature sensing
- Audible and visual over-temperature alarm
- Tracks and reports therapy duration and cumulative hours used (via built-in meter), displays over-temperature and fault codes
- Unit use information available via the front panel
- Unit can be used on a hard surface, or with accessories to mount on an I V pole, bed rail or rolling cart
- Compatible with all 3M™ Bair Hugger™ Warming Blankets and Warming Gowns — pediatric to adult



Model 775	
Dimensions	Height: 13" (33 cm) Width: 14" (35 cm) Depth: 13" (33 cm)
Weight	16 lb. (7.3 kg)
Operating temperatures	High: 109.4°F ± 2.7°F (43°C ± 1.5°C) Med: 100.4°F ± 2.7°F (38°C ± 1.5°C) Low: 89.6°F ± 2.7°F (32°C ± 1.5°C) Ambient Room Temperature
	Audible and Visual Alarms, High Temperature Limit ≤127.4°F (56°C, 53°C) ±3°C
Filter	MERV 14*
Device ratings	110-120 VAC: 50/60 Hz, 11.7 Amps
Compatibility	Use only with 3M™ Bair Hugger™ Warming Blankets and Warming Gowns
Spare parts and additional items	Rolling Cart, Bed Rail Mount, Accessory Handle, Tethered Sheet Clip, Temperature Test Unit

\*See the Operator's Manual for Frequently Asked Questions on Filtration.

# 3M™ Bair Hugger™ Patient Adjustable Warming Unit Model 675

For use in all clinical settings.

- Four temperature settings including an ambient setting
- Simple, intuitive user interface
- Ergonomic hose end design allows for easy blanket insertion and a secure fit
- Audible and visual over-temperature and under-temperature alarms
- Detachable hose
- Filter change indicator
- Unit can be used on a hard surface, or can be mounted on an I V pole or on a rolling cart
- Compatible with all 3M™ Bair Hugger™ Warming Blankets and Warming Gowns — pediatric to adult



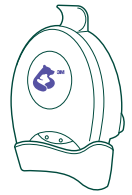
Shown with optional rolling cart 96750

Model 675	
Dimensions	Height: 14.5" (36 cm)   Width: 10.5" (27 cm)   Depth: 11" (28 cm)
Weight	10 lb (4.5 kg)
Operating temperatures	High: 109.4°F (43°C)   Med: 100.4°F (38°C)   Low: 89.6°F (32°C) Ambient Room Temperature
Filter	MERV 14*
Device ratings	110–120 VAC: 50/60 Hz, 11 Amps
Compatibility	Use only with 3M™ Bair Hugger™ Warming Blankets and Warming Gowns
Spare parts and additional items	Rolling Cart, Tethered Sheet Clip, Hose Clip, Replacement Hose, Replacement Filter, Temperature Test Kit, Power Cords

\*See the Operator's Manual for Frequently Asked Questions on Filtration










# Spare parts and additional items

# 3M™ Bair Hugger™ Patient Adjustable Warming Unit Model 875



## Spare parts and additional items

### Catalog no.

90082	3M™ Bair Hugger™ Replacement Temperature Controller	
90073	3M™ Bair Hugger™ Temperature Controller Holder	
90080	3M™ Bair Hugger™ Wall Mount	
90076	3M™ Bair Hugger™ IV Pole Mount	
90079	3M™ Bair Hugger™ Bed Rail Mount	
90122	3M™ Bair Hugger™ Suction Mount Adapter	
90074	3M™ Bair Hugger™ Wall-to-Rail Mount	
90055	3M™ Bair Hugger™ Calibration Test Kit	
90060	3M™ Bair Hugger™ Replacement Filter	

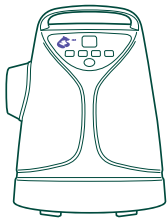



# 3M™ Bair Hugger™ Warming Unit Model 775



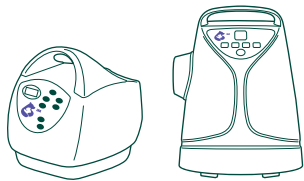
Spare parts and additional items		
Catalog no.		
90090	3M™ Bair Hugger™ Rolling Cart	
90094	3M™ Bair Hugger™ Rolling Cart Handle	
90096	3M™ Bair Hugger™ Mount	
90046	3M™ Bair Hugger™ Replacement Hose with Sensor Assembly	
90047	3M™ Bair Hugger™ Replacement Filter	


# 3M™ Bair Hugger™ Warming Unit Model 675



Spare parts and additional items		
Catalog no.		
96750	3M™ Bair Hugger™ Rolling Cart	
96752	3M™ Bair Hugger™ 600 Series Replacement Hose	
96753	3M™ Bair Hugger™ Warming Unit Replacement Filter	

# 3M™ Bair Hugger™ Warming Unit Models 775, 675



Spare parts and additional items		
Catalog No.		
22110	3M™ Bair Hugger™ Temperature Test Unit	
90224	3M™ Bair Hugger™ Power Cord 120V-B	
90063	3M™ Bair Hugger™ Sheet Clip	

# 3M™ Bair Hugger™ Warming Gowns

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Designed to be worn by patients before, during and after surgery

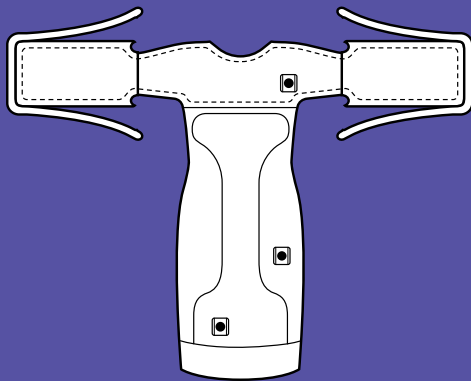
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Not made with natural rubber latex

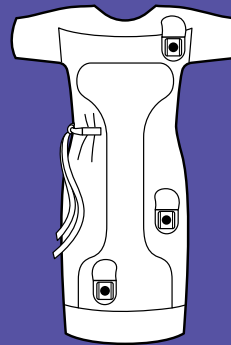
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Small, standard and X-large sizes offer greater coverage and help maintain patient modesty

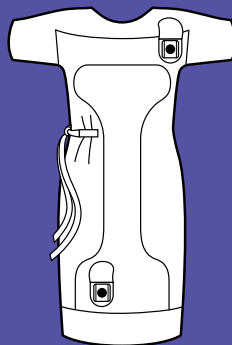
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3M™ Bair Hugger™ Flex  
Warming Gown



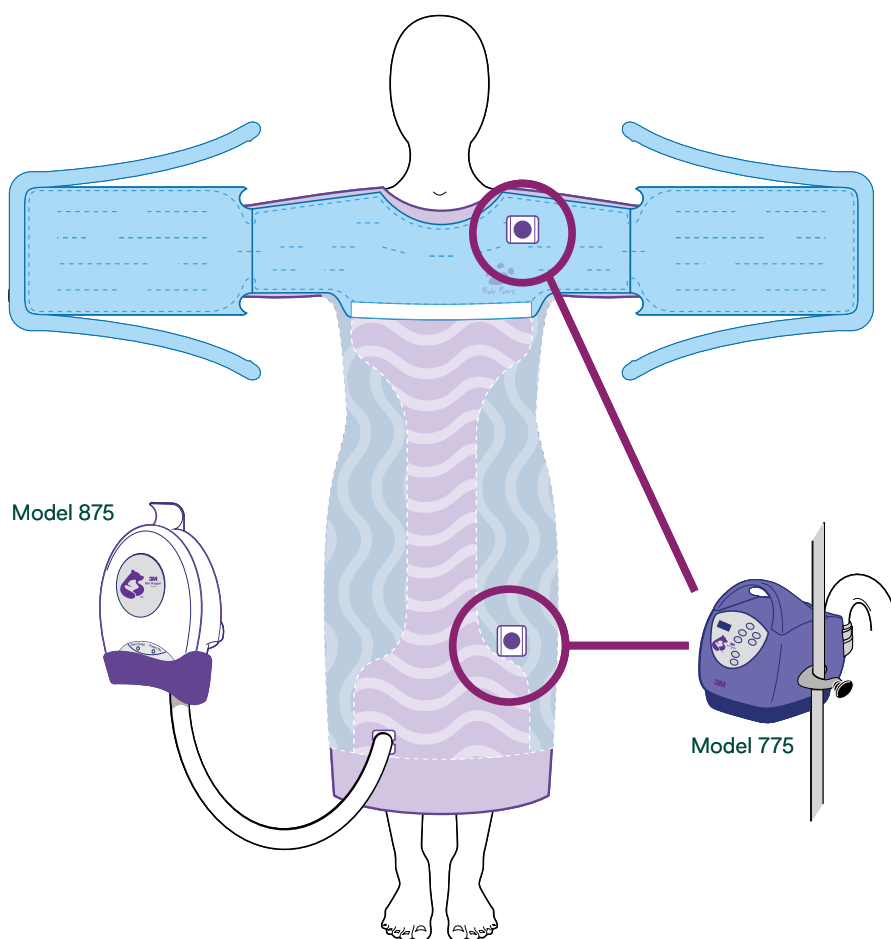
3M™ Bair Hugger™ Plus  
Warming Gown



3M™ Bair Hugger™ OR  
Warming Gown

# 3M™ Bair Hugger™ Flex Warming Gown 81103, 81003, 81203

- Warming capabilities before, during and after surgery in a single patient gown
- Has separate upper- and lower-body inserts
- Includes a head drape, tie strips, adhesive strip for better positioning
- Includes two hose ports for use with 3M™ Bair Hugger™ Warming Unit Model 775 or 3M™ Bair Hugger™ Warming Unit Model 675 inside and outside operating room
- Includes one hose port for use with the 3M™ Bair Hugger™ Patient Adjustable Warming Unit Model 875 outside of the operating room



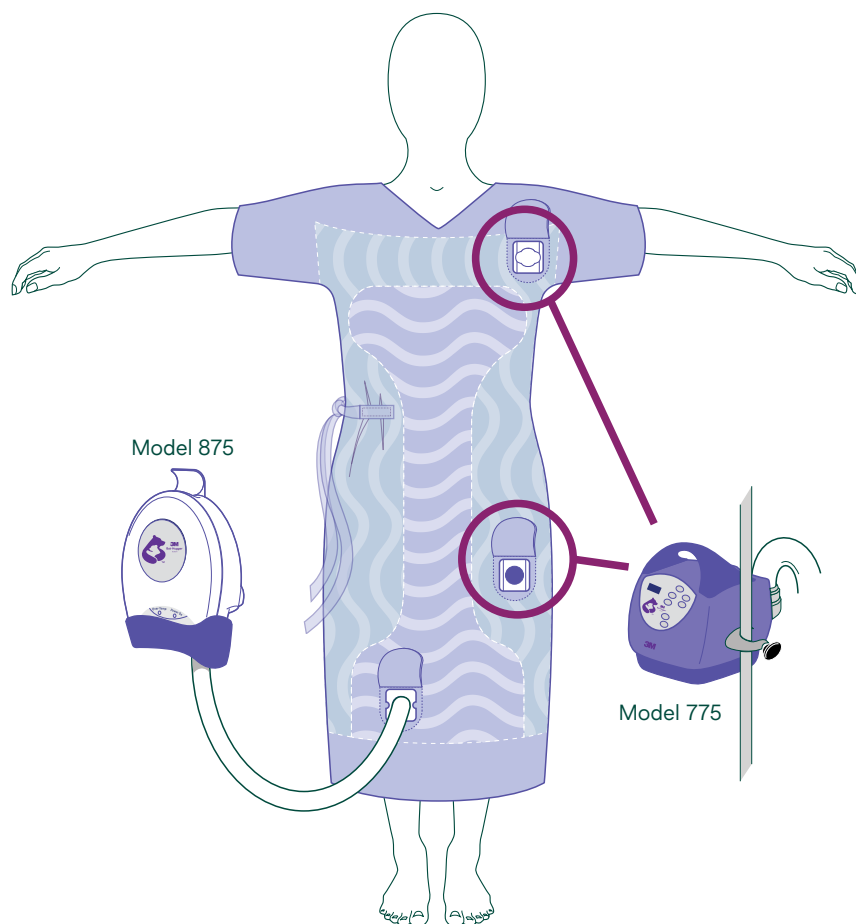
## Flex warming gowns

### Catalog no.

81103	Small	Long: 44" (112 cm)	Sweep: 55" (140 cm)
81003	Standard	Long: 51" (130 cm)	Sweep: 64" (163 cm)
81203	X-Large	Long: 51" (130 cm)	Sweep: 122" (310 cm)

# 3M™ Bair Hugger™ Plus Warming Gown 81102, 81002, 81202

- Warming capabilities before, during and after surgery in a single patient gown
- Includes two hose ports for use with 3M™ Bair Hugger™ Warming Unit Model 775 or 3M™ Bair Hugger™ Warming Unit Model 675 inside and outside operating room
- Includes one hose port for use with 3M™ Bair Hugger™ Patient Adjustable Warming Unit Model 875 outside of the operating room



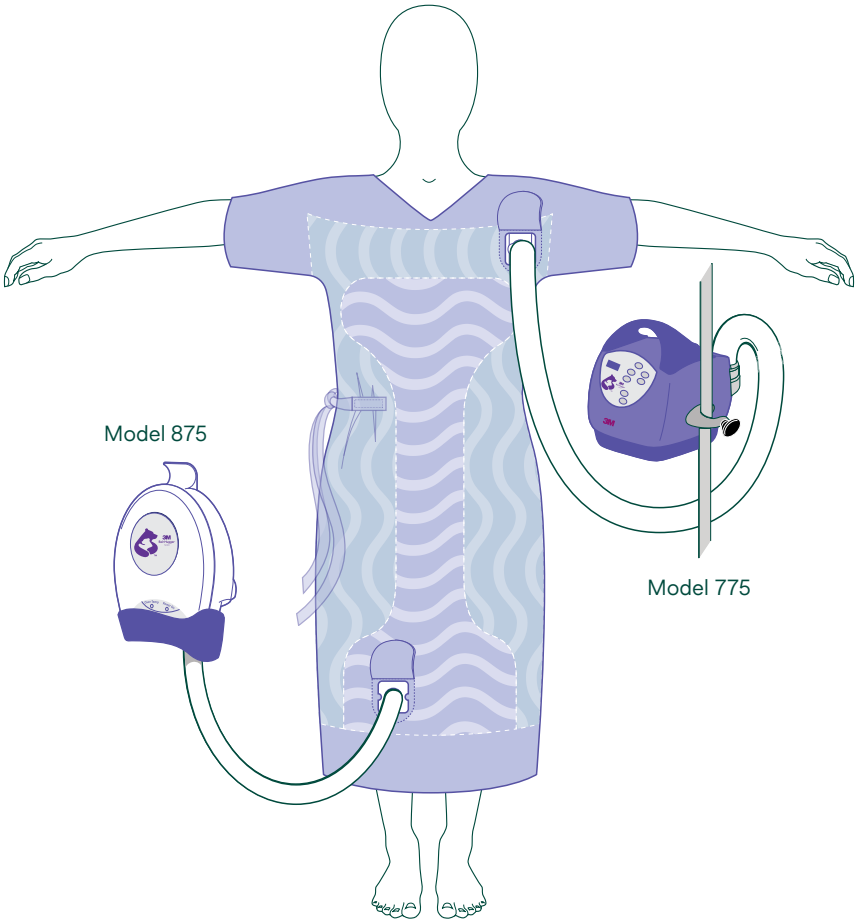
## Plus warming gowns

### Catalog no.

81102	Small	Long: 44" (112 cm)	Sweep: 55" (140 cm)
81002	Standard	Long: 51" (130 cm)	Sweep: 64" (163 cm)
81202	X-Large	Long: 51" (130 cm)	Sweep: 122" (310 cm)

# 3M™ Bair Hugger™ OR Warming Gown 81101, 81001, 81201, 81501

- Warming capabilities before, during and after surgery in a single patient gown
- Includes one hose port for use with 3M™ Bair Hugger™ Warming Unit Model 775 or 3M™ Bair Hugger™ Warming Unit Model 675 inside and outside operating room
- Includes one hose port for use with 3M™ Bair Hugger™ Patient Adjustable Warming Unit Model 875 outside of the operating room



OR warming gowns			
Catalog no.			
81101	Small	Long: 44" (112 cm)	Sweep: 55" (140 cm)
81001	Standard	Long: 51" (130 cm)	Sweep: 64" (163 cm)
81201	X-Large	Long: 51" (130 cm)	Sweep: 122" (310 cm)
81501	Pediatric	Long: 33" (84 cm)	Sweep: 40" (102 cm)

# 3M™ Bair Hugger™ Warming Gown Positioning Examples



OR or Plus Warming Gown  
Upper body warming, supine position



OR, Plus or Flex Warming Gown  
Lower body warming, lateral position



OR, Plus or Flex Warming Gown  
Lower body warming, prone position



OR, Plus or Flex Warming Gown  
Full body warming, supine



Flex Warming Gown  
Upper body warming, supine/arms out



Flex Warming Gown  
Upper body warming, supine position



Flex Warming Gown  
Upper body warming, supine/arms tucked



# 3M™ Bair Hugger™ Warming Gown Kit

Kit offers the following in one convenient package:

- Warming Gown
- Personal Belongings Bag
- Booties
- Shoe Bag
- Bonnet

## Patient booties

- Lower extremities are often cold before and after surgery
- Booties, in conjunction with the 3M™ Bair Hugger™ Warming Gown, can help keep the patient comfortable



Warming gown kits				
Catalog no.				
Flex				
84003	Standard	Long: 51" (130 cm)	Sweep: 64" (163 cm)	Includes Flex Warming Gown, Booties (Pair), Bonnet, Personal Belonging Bag, Shoe Bag
84203	X-Large	Long: 51" (130 cm)	Sweep: 122" (310 cm)	
Plus				
84002	Standard	Long: 51" (130 cm)	Sweep: 64" (163 cm)	Includes Plus Warming Gown, Booties (Pair), Bonnet, Personal Belonging Bag, Shoe Bag
84202	X-Large	Long: 51" (130 cm)	Sweep: 122" (310 cm)	
OR				
84001	Standard	Long: 51" (130 cm)	Sweep: 64" (163 cm)	Includes OR Warming Gown, Booties (Pair), Bonnet, Personal Belonging Bag, Shoe Bag
84201	X-Large	Long: 51" (130 cm)	Sweep: 122" (310 cm)	

Warming gown with booties				
Catalog no.				
<b>Flex</b>				
83003	Standard	Long: 51" (130 cm)	Sweep: 64" (163 cm)	Includes Flex Warming Gown, Booties (Pair)
<b>OR</b>				
83001	Standard	Long: 51" (130 cm)	Sweep: 64" (163 cm)	Includes OR Warming Gown, Booties (Pair)

Booties	
Catalog no.	
90065	Standard
90091	X-Large

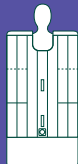


# 3M™ Bair Hugger™ Warming Blankets

## Full body



3M™ Bair Hugger™ Full Body  
Warming Blanket  
30000



3M™ Bair Hugger™ Multi-  
Access Warming Blanket  
31500



3M™ Bair Hugger™ Surgical  
Access Warming Blanket  
57000

## Lower body

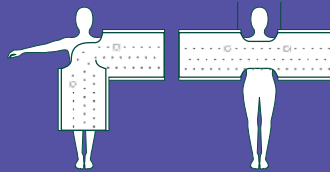


3M™ Bair Hugger™ Lower  
Body Warming Blanket  
52500



3M™ Bair Hugger™ Sterile  
Cardiac Warming Blanket  
63000

## Upper body



3M™ Bair Hugger™ Multi-position  
Upper Body Warming Blanket  
62200



3M™ Bair Hugger™  
Dual Port Torso  
Warming Blanket  
54200

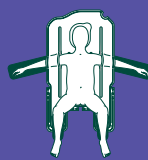
## Underbody



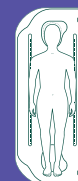
3M™ Bair Hugger™ Adult  
Underbody Warming Blanket  
54500



3M™ Bair Hugger™ Spinal  
Underbody Warming Blanket  
57501



3M™ Bair Hugger™ Lithotomy  
Underbody Warming Blanket  
58501



3M™ Bair Hugger™ Full Access  
Underbody Warming Blanket  
63500

## Pediatric



3M™ Bair Hugger™ Small  
Lower Body Warming Blanket  
53700



3M™ Bair Hugger™ Large  
Pediatric Underbody Warming  
Blanket 55000



3M™ Bair Hugger™ Pediatric  
Underbody Warming Blanket  
55501

# 3M™ Bair Hugger™ Full Body Warming Blanket 30000

- Provides coverage to the entire patient, maximizing thermal transfer
- Foot drape minimizes the risk of thermal injury to the feet and lower leg area
- Integrated tuck flaps at shoulders help maintain blanket position

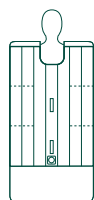


## Full Body Warming Blanket 30000

Dimensions	84" x 36" (213 cm x 91 cm)
Weight	5.1 oz (145 g)

# 3M™ Bair Hugger™ Multi-Access Warming Blanket 31500

- Easy access to any part of the patient's body while providing full patient coverage, maximizing thermal transfer
- Six convenient panels allow quick access to the patient's chest, arms, torso and lower body
- Foot drape minimizes risk of thermal injury to the feet and lower leg area
- Integrated tuck flaps at the shoulders help maintain blanket position



## Multi-Access Warming Blanket 31500

Dimensions	84" x 36" (213 cm x 91 cm)
Weight	5.3 oz (150 g)

# 3M™ Bair Hugger™ Surgical Access Warming Blanket 57000

- Two resealable hose ports for versatile positioning of the warming unit
- Adaptable to a variety of procedures such as spinal, abdominal, hip and pelvic surgeries
- Attached clear head drape retains warm air around the intubated patient's head and allows observation by the clinician
- Large surgical access window provides patient access for the surgeon
- Integrated adhesive secures the surgical access window to the patient
- Foot drape minimizes risk of thermal injury to the feet and lower leg area



Surgical Access Warming Blanket 57000	
Dimensions	84" x 36" (213 cm x 91 cm)
Weight	6.4 oz (181 g)
Head Drape	24" x 16" (61 cm x 41 cm)



# 3M™ Bair Hugger™ Lower Body Warming Blanket 52500

- For use during surgical procedures on the upper half of the body
- Effectively used for patients in the supine, lateral or prone positions
- Foot drape minimizes risk of thermal injury to the feet and lower leg area
- Adhesive strip secures blanket to the patient



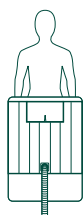
## Lower Body Warming Blanket 52500

Dimensions	60" x 36" (152 cm x 91 cm)
Weight	4 oz (113 g)



# 3M™ Bair Hugger™ Sterile Cardiac Warming Blanket 63000

- “Cummerbund” design is pre-positioned at the waist during prep, unrolled upon closure of the saphenous vein graft incision, and inflated post-bypass
- 36" (91 cm) sterile hose allows the placement of the temperature management unit away from sterile field
- Warms the lower body to reduce core-to-periphery heat loss
- Clear groin/femoral access window allows access to the femoral artery
- Positions easily in the sterile field

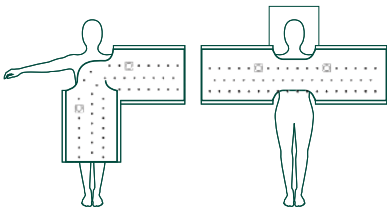


## Sterile Cardiac Warming Blanket 63000

Dimensions	60" x 36" (152 cm x 91 cm)
Weight	8 oz (227 g)
Hose	36" (91 cm)

# 3M™ Bair Hugger™ Multi-position Upper Body Warming Blanket 62200

- Maximize patient coverage to help maintain normothermia
- Adapts to multiple surgical positions and procedures

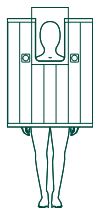


Multi-position Upper Body Warming Blanket 62200	
Dimensions	78" x 24" (198 cm x 61 cm)
Weight	3.7 oz (104 g)



# 3M™ Bair Hugger™ Dual Port Torso Warming Blanket 54200

- Affix to the lower abdominal area and cover the upper half of the body
- Two convenient, resealable hose ports
- Effectively used for patients in the supine, lateral and other positions
- Pre-attached clear head drape retains warm air around the intubated patient's head and allows observation by the clinician
- Integrated tuck flaps at shoulders help maintain blanket position

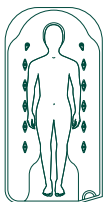


Dual Port Torso Warming Blanket 54200

Dimensions	42" x 36" (107 cm x 91 cm)
Weight	3.2 oz (90 g)
Head Drape	24" x 16" (61 cm x 41 cm)

# 3M™ Bair Hugger™ Adult Underbody Warming Blanket 54500

- Positioned on the table prior to the patient's arrival
- Unique fluid outlets minimizes pooling of fluids on the surface of the blanket
- Ideal for patient warming during diagnostic and interventional procedures in the cardiac cath lab and the radiology suite
- Two adhesive strips under the blanket secure the blanket to the operating table
- Radiolucent materials

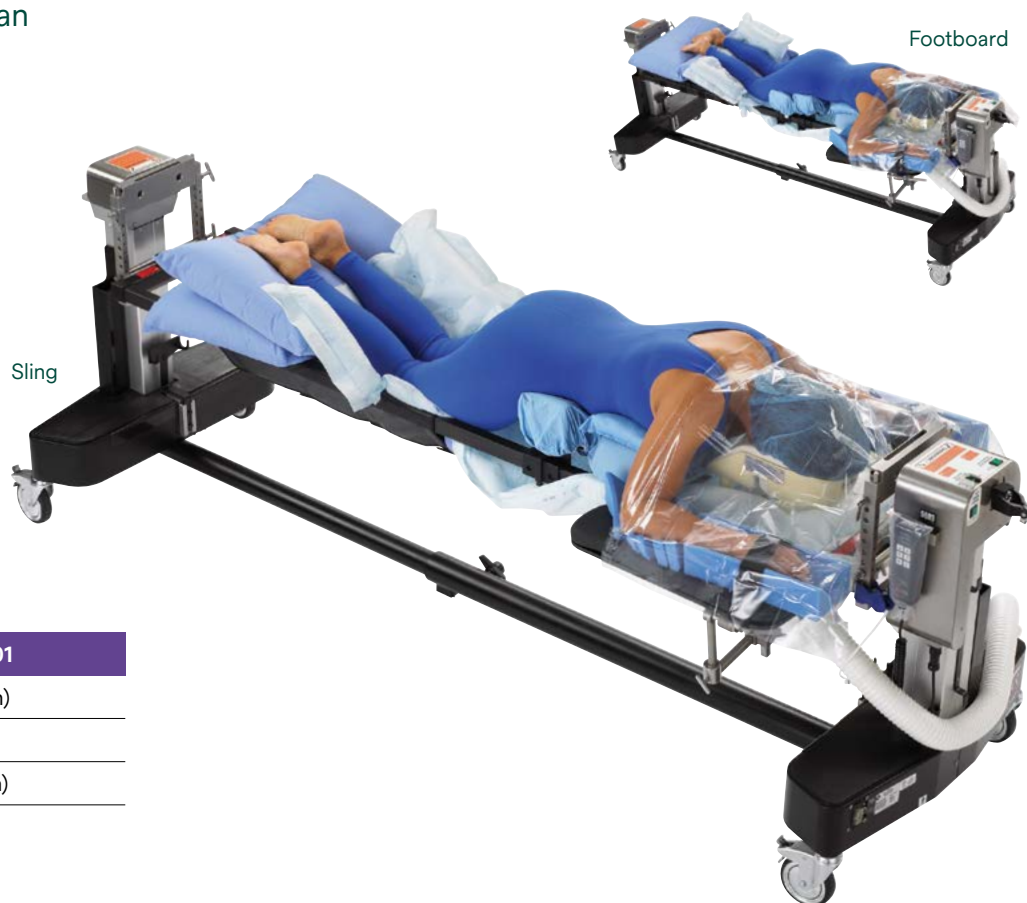
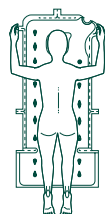


## Adult Underbody Warming Blanket 54500

Dimensions	74" x 36" (188 cm x 91 cm)
Weight	5 oz (142 g)

# 3M™ Bair Hugger™ Spinal Underbody Warming Blanket 57501

- Compatible with the open frame of the spinal surgery cradle
- Won't interfere with the adjustment of the support pads
- Full patient visualization and unrestricted patient access
- Perforations on the sides of blanket allow the table frame to pass through the blanket
- A removable head section allows visualization of the patient's face throughout the procedure
- Integrated tie strips secure the blanket to the table frame
- Blanket design allows it to draw up near the patient when inflated
- Compatible with the footboards, leg sling, Wilson™ frame or head support modalities
- Included clear head drape retains warm air around the intubated patient's head and allows observation by the clinician

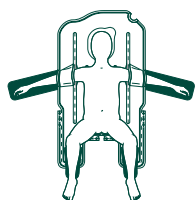


## Spinal Underbody Warming Blanket 57501

Dimensions	74" x 36" (188 cm x 91 cm)
Weight	5 oz (142 g)
Head Drape	24" x 48" (61 cm x 122 cm)

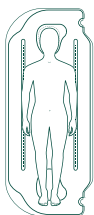
# 3M™ Bair Hugger™ Lithotomy Underbody Warming Blanket 58501

- Positioned on the procedure table prior to the patient's arrival
- Full, unrestricted patient access and flexibility
- Ideal for procedures involving the lower extremities, and abdominal, peritoneal and pelvic cavities
- Unique fluid outlets minimize pooling of fluids on the surface of the blanket
- Pass-through slits allow flexible patient positioning and the use of a drawsheet
- Generous peritoneal cut-out at the base of the blanket provides the clinician unobstructed access to the patient
- Integrated tie strips can be used to secure the blanket to the stirrups/leg supports
- Adhesive strips and tuck flaps secure the blanket to the operating table
- Included clear head drape retains warm air around the intubated patient's head and allows observation by the clinician



# 3M™ Bair Hugger™ Full Access Underbody Warming Blanket 63500

- Positioned on the table prior to the patient's arrival
- Ideal for cardiac, complex or routine surgeries where the patient is in the supine, lateral or prone positions
- Unique fluid outlets minimizes pooling of fluids on the surface of the blanket
- Pass-through slits allow flexible patient positioning and the use of a drawsheet
- Adhesive strips and tuck flaps secure the blanket to the operating table
- Two resealable hose ports at either end of the blanket provide options for hose placement
- Included clear head drape retains warm air around the intubated patients head and allows observation by the clinician



## Full Access Underbody Warming Blanket 63500

Dimensions	84" x 36" (221 cm x 91 cm)
Weight	7 oz (198 g)
Head Drape	24" x 48" (61 cm x 122 cm)



# 3M™ Bair Hugger™ Small Lower Body Warming Blanket 53700

- Compact version of the adult-size lower body blanket (52500)
- Ideal for warming a large child or a small adult during upper body surgery
- Can be used in the supine, lateral or prone positions
- Can also be used as a full body blanket on smaller patients
- Foot drape minimizes risk of thermal injury to the feet and lower leg area



## Small Lower Body Warming Blanket 53700

Dimensions	35" x 24" (89 cm x 61 cm)
Weight	1.5 oz (43 g)

# 3M™ Bair Hugger™ Large Pediatric Underbody Warming Blanket 55000

- Positioned on table prior to the patient's arrival
- Warms a large child or a small adult patient from below, while allowing clinicians full access to the patient
- Fluid outlets minimize pooling of fluids on the surface of the blanket
- Two resealable hose ports located at either end of the blanket provide options for hose placement
- Tape and tuck flaps secure the blanket to the operating table
- Included clear drapes (2) retain warm air around the patient and allows observation by the clinician



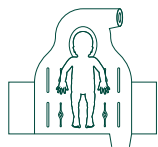
## Large Pediatric Underbody Warming Blanket 55000

Dimensions	60" x 32" (152 cm x 81 cm)
Weight	4.8 oz (136 g)
Head Drape	24" x 24" (61 cm x 61 cm)

# 3M™ Bair Hugger™ Pediatric Underbody Warming Blanket 55501

For use in all clinical settings.

- Warms even the smallest patient while providing clinicians full, unrestricted access to the patient
- Unique fluid outlets minimizes pooling of fluids on the surface of the blanket
- Consistent, even perforations across the entire blanket ensure uniform warming
- Two resealable hose ports located at either end of the blanket provide options for hose placement
- Tape and tuck flaps under the blanket secure the blanket to the operating table
- Included clear drapes (2) retain warm air around the intubated patient and allows observation by the clinician

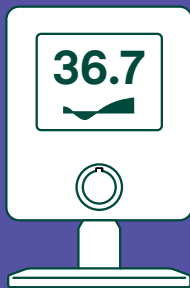


## Pediatric Underbody Warming Blanket 55501

Dimensions	36" x 33" (91 cm x 84 cm)
Weight	3 oz (85 g)
Head Drape	24" x 24" (61 cm x 61 cm)



# 3M™ Bair Hugger™ Temperature Monitoring System



3M™ Bair Hugger™  
Temperature Monitoring  
Control Unit Model 370



3M™ Bair Hugger™  
Temperature Monitoring  
Sensor Model 360

# 3M™ Bair Hugger™ Temperature Monitoring System

Non-invasive, accurate core temperature monitoring system measures patient temperature with an affordable single-use sensor. Provides standardization and a consistent temperature monitoring method throughout the entire surgical journey.

## 3M™ Bair Hugger™ Temperature Monitoring Control Unit

### Model 370

- Large numbers on display
- Temperature data transmitted to patient vital signs monitor via an optional monitor cable

## 3M™ Bair Hugger™ Temperature Monitoring Sensor

### Model 360

- Low-touch sensor placed on patient's forehead
- Thermal insulator allows for accurate core temperature reading from skin surface
- Can be disconnected and reconnected at each point of care



Model 370			
3M™ Bair Hugger™ Temperature Monitoring Control Unit			
<b>Includes:</b> Sensor cable, control unit stand, power cord, YSI 400 .25" (6.5 mm) and .125" (3 mm) monitor cables			
Dimensions	Height: 3.7" (9.3 cm), Extendable to 4.5" (11.4 cm)	Width: 2.8" (7.1 cm)	Depth: 1.7" (4.3 cm)
Weight	4.5 oz (128 g)		










Model 360	
3M™ Bair Hugger™ Temperature Monitoring Sensor	
Dimensions	Diameter: 1.6" (4.1 cm)    Thick: 0.2" (0.5 cm)

# 3M™ Bair Hugger™ Temperature Monitoring System

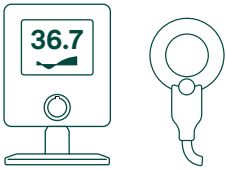





## Spare parts and additional items

### Catalog no.

90106	3M™ Bair Hugger™ Sensor Cable	
90111	3M™ Bair Hugger™ Temperature Monitoring Calibration Verification Stick (36°C)	
90128	3M™ Bair Hugger™ Temperature Monitoring Calibration Verification Stick (31°C, 36°C, 41°C)	
90107	3M™ Bair Hugger™ Temperature Monitor Cable, 3.5–6.35 mm Compatible	
90108	3M™ Bair Hugger™ Temperature Monitor Cable, 3.5–3.5 mm Compatible	
90130	3M™ Bair Hugger™ Temperature Monitor Cable, Philips Compatible	
90131	3M™ Bair Hugger™ Temperature Monitor Cable, GE Compatible	
90132	3M™ Bair Hugger™ Temperature Monitor Cable, Draeger Compatible	
90133	3M™ Bair Hugger™ Temperature Monitor Cable, Space Labs Compatible	

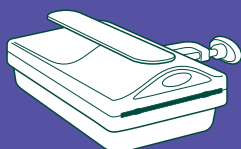
# 3M™ Bair Hugger™ Temperature Monitoring System



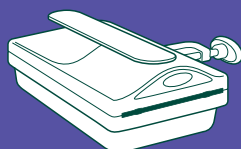
Spare parts and additional items		
Catalog no.		
90126	3M™ Bair Hugger™ Temperature Monitor Knob and Stand	
90127	3M™ Hook and Loop Tape	
90113	3M™ Bair Hugger™ Power Supply – NEMA Power Receptacle compatible	

# 3M™ Ranger™ Blood/Fluid and Irrigation Fluid Warming Systems and Pressure Infusors

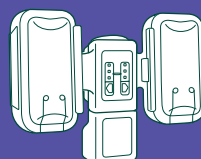
## Hardware units



3M™ Ranger™ Irrigation Fluid Warming Unit Model 247



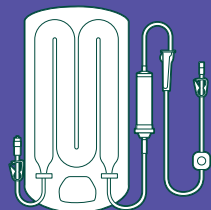
3M™ Ranger™ Blood/Fluid Warming Unit Model 245



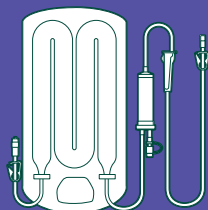
3M™ Ranger™ Pressure Infusor Model 145

## Standard flow sets

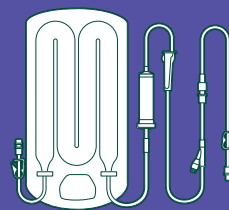
For use with Model 245



3M™ Ranger™ Blood/Fluid Warming Standard Flow Set, Cat. No. 24200



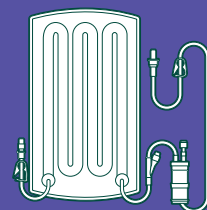
3M™ Ranger™ Blood/Fluid Warming Standard Flow Set, Cat. No. 24240



3M™ Ranger™ Blood/Fluid Warming Standard Flow Set, Cat. No. 24250

## Pediatric set

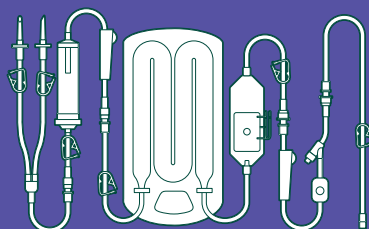
For use with Model 245



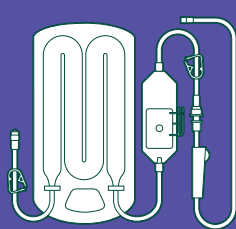
3M™ Ranger™ Blood/Fluid Warming Pediatric Set, Cat. No. 24450

## High flow sets

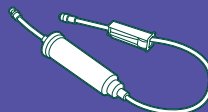
For use with Model 245



3M™ Ranger™ Blood/Fluid Warming High Flow Set, Cat. No. 24355



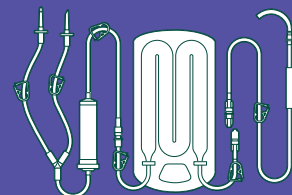
3M™ Ranger™ Blood/Fluid Warming High Flow Set, Cat. No. 24370



3M™ Ranger™ Blood/Fluid Warming Replacement Filter, Cat. No. 90029

## Fluid warming irrigation set

For use with Model 247



3M™ Ranger™ Fluid Warming Irrigation Set, Cat. No. 24750

# 3M™ Ranger™ Blood/Fluid Warming Unit Model 245

- Use with 3M™ Ranger™ Blood/Fluid Warming Sets
- Dry heat technology – no water reservoir
- Warms blood/fluid as it is being delivered to the patient
- Quickly adapts to changes in flow rates: 0 to 333mL per minute
- Monitors plate temperature, adjusting to maintain a 106°F ( 41°C ) set point
- Audible/visible, over/under temperature alert indicators
- Cleaning tool allows cleaning the heating plates without disassembling the Warming Unit
- Meets all American Association for the Advancement of Blood & Biotherapies (AABB) guidelines for warming blood



90030



90020



Model 245	
Dimensions	Height: 4.5" (11 cm) Width: 7.5" (19 cm) Length: 10" (25 cm)
Weight	7 lb 7 oz (3.4 kg)
Set Point Temperature	106°F (41°C)
Leakage Current	Meets leakage current requirements in accordance with IEC 60601-1
Flow Rates	KVO to 333mL/min
Alerts (audible and visual)	Over-Temperature Alert: 109.4°F (43°C) Under-Temperature Alert: 91.4°F (33°C)
Additional Items	Cleaning Tool 90030, Thermocouple Probe 90020

# 3M™ Ranger™ Irrigation Fluid Warming Unit Model 247

- Use with 3M™ Ranger™ Fluid Warming Irrigation Sets
- Dry heat technology – no water reservoir
- Warms fluid as it is being delivered to the patient
- Quickly adapts to changes in flow rates: up to 580 mL per minute when bag is hung 100 cm above the scope
- Monitors plate temperature, adjusting to maintain a 106°F (41°C) set point
- Audible/visible, over/under temperature alert indicators
- Cleaning tool allows cleaning the heating plates without disassembling the warming unit



90030



90020



Model 247	
Dimensions	Height: 4.5" (11 cm) Width: 7.5" (19 cm) Length: 10" (25 cm)
Weight	7 lb 7 oz (3.4 kg)
Set Point Temperature	106°F (41°C)
Leakage Current	Meets leakage current requirements in accordance with IEC 60601-1
Alerts (audible and visual)	Over-Temperature Alert: 118.4°F (48°C) Under-Temperature Alert: 91.4°F (33°C)
Additional Items	Cleaning Tool 90030, Thermocouple Probe 90020

# 3M™ Ranger™ Pressure Infusor Model 145

- The pressure infusor includes three pieces: pressure infusor, custom IV pole and IV pole base
- Accommodates a range of fluid bag sizes, from 250mL to 1000mL
- Pressure infusor chambers function independently
- Provides maximum fluid pressure of 300 mmHg
- Use with the 3M™ Ranger™ Blood/Fluid Warming Unit and 3M™ Ranger™ Blood/Fluid Warming High Flow Sets and Standard Flow Sets (sold separately)

Model 145			
Pressure Infusor			
Dimensions	Height: 15.75" (40 cm)	Width: 20" (51 cm)	Depth: 7.75" (20 cm)
Weight	17 lb (7.7 kg)		
Pressure	230 to 330 mmHg		
Alerts (audible and visual)	Built-in audio and visual indicators should bladder pressure exceed 330 mmHg or fall below 230 mmHg during use		

90068			
Pressure Infusor IV Pole			
Dimensions	Length: 73.5" (187 cm)	Width: 4.5" (11 cm)	Diameter: 1.75" (4 cm)
Weight	6.2 lb (2.8 kg)		

90124			
Pressure Infusor IV Pole Base			
Dimensions	Length: 32" (81 cm)	Width: 30" (76 cm)	Height: 8" (20 cm)
Weight	35.5 lb (16.1 kg)		





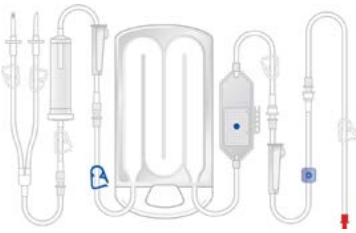
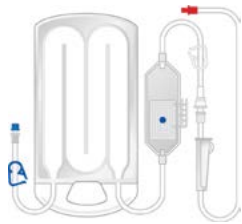

# 3M™ Ranger™ Blood/Fluid Warming Sets

- Intravenous fluid flows through sets and is warmed prior to reaching the patient
- Sets are disposable and for single use
- EtO sterilized
- Not made with natural rubber latex
- Use with the 3M™ Ranger Blood/Fluid Warming Unit Model 245 only (sold separately)



Color fluid shown for illustrative purposes only

Standard flow		
<b>24200</b>	Flow rates KVO–150mL/min (inlet fluid temperature, 4°C - 20°C) Priming volume 39mL Components Fluid warming cassette, needle injection port, bubble trap, 30" (76 cm) patient line Pressure infusion Up to 300 mmHg Material Not made with natural rubber latex Sterile EtO	
<b>24240</b>	Flow rates KVO–150mL/min (inlet fluid temperature, 4°C - 20°C) Priming volume 44mL Components Fluid warming cassette, bubble trap with air aspiration port, 60" (152 cm) patient line Pressure infusion Up to 300 mmHg Material Not made with natural rubber latex Sterile EtO	
<b>24250</b>	Flow rates KVO–150mL/min (inlet fluid temperature, 4°C - 20°C) Priming volume 44mL Components Fluid warming cassette, needleless injection port, bubble trap Pressure infusion Up to 300 mmHg Material Not made with natural rubber latex Sterile EtO Extension Luer connected 76 cm extension set on patient line	
Pediatric		
<b>24450</b>	Flow rates KVO–150mL/min (inlet fluid temperature, 4°C - 20°C) Priming volume 20mL Components Fluid warming cassette, bubble trap with air aspiration port, needleless aspiration port, 60 cm patient line Pressure infusion Do not use with pressure, use only gravity Material Not made with natural rubber latex Sterile EtO	

High Flow		
<b>24355</b>		
Flow rates	KVO - 167 mL/min (inlet fluid temperature 4°C) KVO - 333 mL/min (inlet fluid temperature 20°C)	
Priming volume	150mL	
Components	Fluid warming cassette, 2 IV spikes, drip chamber with 150 micron filter, needleless injection port, 60" (152 cm) patient line, auto-venting bubble trap	
Pressure infusion	Up to 300 mmHg	
Material	Not made with natural rubber latex	
Sterile	EtO	
<b>24370</b>		
Flow rates	KVO - 167 mL/min (inlet fluid temperature 4°C) KVO - 333 mL/min (inlet fluid temperature 20°C)	
Priming volume	89mL	
Components	Fluid warming cassette, auto-venting bubble trap, 48" (121 cm) patient line	
Pressure infusion	Up to 300 mmHg	
Material	Not made with natural rubber latex	
Sterile	EtO	
<b>90029 Replacement Filter</b>		
Filter	150 micron filter	
Material	Not made with natural rubber latex	
Sterile	EtO	
Compatible	Use with 3M™ Ranger™ Blood/Fluid Warming High Flow Sets 24355, 24370	

## 3M™ Ranger™ Fluid Warming Irrigation Set

- High-volume surgical irrigation fluid flows through disposable sets and is warmed prior to reaching the patient
- Set is disposable and for single use
- EtO sterilized
- Not made with natural rubber latex
- Use with 3M™ Ranger™ Irrigation Fluid Warming Unit Model 247 only (sold separately)

Irrigation	
<b>24750</b>	
Components	Standard double spike and 84" (213 cm) patient line with scope attachment (patient line is contained within its own sterile packaging for use within the sterile field)
Pressure infusion	Up to 245 mmHg
Material	Not made with natural rubber latex
Sterile	EtO

# 3M™ Bair Hugger™ Warming Blankets and Warming Gowns

## Full body warming blankets



3M™ Bair Hugger™ Full Body Warming Blanket 30000



3M™ Bair Hugger™ Multi-Access Warming Blanket 31500



3M™ Bair Hugger™ Surgical Access Warming Blanket 57000

## Lower body warming blankets



3M™ Bair Hugger™ Lower Body Warming Blanket 52500



3M™ Bair Hugger™ Sterile Cardiac Warming Blanket 63000

## Upper body warming blankets



3M™ Bair Hugger™ Multi-position Upper Body Warming Blanket 62200



3M™ Bair Hugger™ Dual Port Torso Warming Blanket 54200

## Underbody warming blankets



3M™ Bair Hugger™ Adult Underbody Warming Blanket 54500



3M™ Bair Hugger™ Spinal Underbody Warming Blanket 57501



3M™ Bair Hugger™ Lithotomy Underbody Warming Blanket 58501



3M™ Bair Hugger™ Full Access Underbody Warming Blanket 63500

## Pediatric warming blankets



3M™ Bair Hugger™ Small Lower Body Warming Blanket 53700

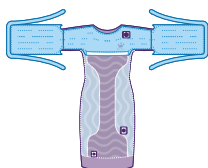


3M™ Bair Hugger™ Large Pediatric Underbody Warming Blanket 55000

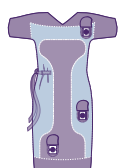


3M™ Bair Hugger™ Pediatric Underbody Warming Blanket 55501

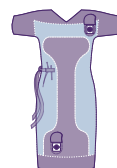
## Warming gowns



3M™ Bair Hugger™ Flex Warming Gown



3M™ Bair Hugger™ Plus Warming Gown



3M™ Bair Hugger™ OR Warming Gown

# 3M™ Bair Hugger™ Warming Units and 3M™ Bair Hugger™ Temperature Monitoring System

## Warming units



3M™ Bair Hugger™  
Warming Unit Model 775



3M™ Bair Hugger™  
Warming Unit Model 675



3M™ Bair Hugger™  
Patient Adjustable  
Warming Unit Model 875



3M™ Bair Hugger™ Temperature Monitoring Sensor  
Model 360 and 3M™ Bair Hugger™ Temperature  
Monitoring Control Unit Model 370

## Temperature monitoring system

# 3M™ Ranger™ Blood/Fluid and Irrigation Fluid Warming Systems and Pressure Infusors

## Blood/Fluid Warming Unit



3M™ Ranger™ Blood/Fluid  
Warming Unit Model 245

## Irrigation Fluid Warming Unit



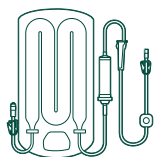
3M™ Ranger™ Irrigation Fluid  
Warming Unit Model 247

## Pressure Infusor

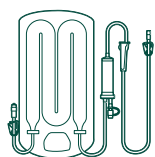


3M™ Ranger™ Pressure Infusor  
Model 145

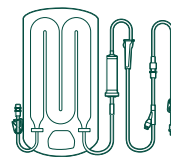
## Blood/Fluid Warming Standard Flow Sets



3M™ Ranger™ Blood/Fluid  
Warming Standard Flow Set,  
Cat. No. 24200

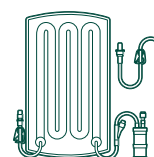


3M™ Ranger™ Blood/Fluid  
Warming Standard Flow Set,  
Cat. No. 24240



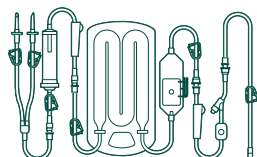
3M™ Ranger™ Blood/Fluid  
Warming Standard Flow Set,  
Cat. No. 24250

## Blood/Fluid Warming Pediatric Set

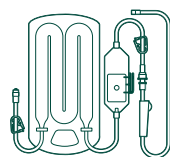


3M™ Ranger™ Blood/Fluid Warming  
Pediatric Set, Cat. No. 24450

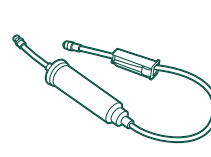
## Blood/Fluid Warming High Flow Sets



3M™ Ranger™ Blood/Fluid  
Warming High Flow Set,  
Cat. No. 24355

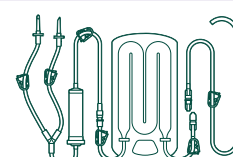


3M™ Ranger™ Blood/Fluid  
Warming High Flow Set,  
Cat. No. 24370



3M™ Ranger™ Blood/Fluid  
Warming Replacement Filter,  
Cat. No. 90029

## Fluid Warming Irrigation Set



3M™ Ranger™ Fluid Warming  
Irrigation Set, Cat. No. 24750

# Ordering Information

Catalog no.	Description	Units/case
14500	3M™ Ranger™ Pressure Infusor, Model 145	1
22110	3M™ Bair Hugger™ Temperature Test Unit	1
24200	3M™ Ranger™ Blood/Fluid Warming Standard Flow Set	10
24240	3M™ Ranger™ Blood/Fluid Warming Standard Flow Set	10
24250	3M™ Ranger™ Blood/Fluid Warming Standard Flow Set	10
24355	3M™ Ranger™ Blood/Fluid Warming High Flow Set	10
24370	3M™ Ranger™ Blood/Fluid Warming High Flow Set	10
24450	3M™ Ranger™ Blood/Fluid Warming Pediatric Set	10
24500	3M™ Ranger™ Blood/Fluid Warming Unit, Model 245	1
24700	3M™ Ranger™ Irrigation Fluid Warming Unit, Model 247	1
24750	3M™ Ranger™ Fluid Warming Irrigation Set	10
30000	3M™ Bair Hugger™ Full Body Warming Blanket	10
31500	3M™ Bair Hugger™ Multi-Access Warming Blanket	10
36000	3M™ Bair Hugger™ Temperature Monitoring Sensor, Model 360	25
37000	3M™ Bair Hugger™ Temperature Monitoring Control Unit, Model 370	1
52500	3M™ Bair Hugger™ Lower Body Warming Blanket	10
53700	3M™ Bair Hugger™ Small Lower Body Warming Blanket	10
54200	3M™ Bair Hugger™ Dual Port Torso Warming Blanket	10
54500	3M™ Bair Hugger™ Adult Underbody Warming Blanket	10
55000	3M™ Bair Hugger™ Large Pediatric Underbody Warming Blanket	10
55501	3M™ Bair Hugger™ Pediatric Underbody Warming Blanket	10

Catalog no.	Description	Units/case
57000	3M™ Bair Hugger™ Surgical Access Warming Blanket	10
57501	3M™ Bair Hugger™ Spinal Underbody Warming Blanket	5
58501	3M™ Bair Hugger™ Lithotomy Underbody Warming Blanket	10
62200	3M™ Bair Hugger™ Multi-position Upper Body Warming Blanket	10
63000	3M™ Bair Hugger™ Sterile Cardiac Warming Blanket	5
63500	3M™ Bair Hugger™ Full Access Underbody Warming Blanket	5
67500	3M™ Bair Hugger™ Warming Unit, Model 675	1
77500	3M™ Bair Hugger™ Warming Unit, Model 775	1
81001	3M™ Bair Hugger™ OR Warming Gown Standard	30
81002	3M™ Bair Hugger™ Plus Warming Gown Standard	30
81003	3M™ Bair Hugger™ Flex Warming Gown Standard	30
81101	3M™ Bair Hugger™ OR Warming Gown Small	20
81102	3M™ Bair Hugger™ Plus Warming Gown Small	20
81103	3M™ Bair Hugger™ Flex Warming Gown Small	20
81201	3M™ Bair Hugger™ OR Warming Gown X-Large	20
81202	3M™ Bair Hugger™ Plus Warming Gown X-Large	20
81203	3M™ Bair Hugger™ Flex Warming Gown X-Large	20
81501	3M™ Bair Hugger™ OR Warming Gown Pediatric	20
83001	3M™ Bair Hugger™ OR Warming Gown with Booties Standard	30
83003	3M™ Bair Hugger™ Flex Warming Gown with Booties Standard	30
84001	3M™ Bair Hugger™ OR Warming Gown Kit Standard	30



Catalog no.	Description	Units/case
84002	3M™ Bair Hugger™ Plus Warming Gown Kit Standard	30
84003	3M™ Bair Hugger™ Flex Warming Gown Kit Standard	30
84201	3M™ Bair Hugger™ OR Warming Gown Kit X-Large	20
84202	3M™ Bair Hugger™ Plus Warming Gown Kit X-Large	20
84203	3M™ Bair Hugger™ Flex Warming Gown Kit X-Large	20
87500	3M™ Bair Hugger™ Patient Adjustable Warming Unit Model 875	1
90029	3M™ Ranger™ Blood/Fluid Warming Replacement Filter	10
90030	3M™ Ranger™ Cleaning Tool for Ranger Blood/Fluid Warming Unit Model 245 or Ranger Irrigation Fluid Warming Unit Model 247	12
90046	3M™ Bair Hugger™ Replacement Hose with Sensor Assembly	1
90047	3M™ Bair Hugger™ Replacement Filter	1
90055	3M™ Bair Hugger™ Calibration Test Kit	1
90060	3M™ Bair Hugger™ Replacement Filter	1
90063	3M™ Bair Hugger™ Sheet Clip (Model 675, Model 775)	1
90065	3M™ Bair Hugger™ Booties, Standard	30
90068	3M™ Ranger™ Pressure Infuser Off-Set IV Pole	1
90073	3M™ Bair Hugger™ Temperature Controller Holder	1
90074	3M™ Bair Hugger™ Wall-to-Rail Mount	1
90076	3M™ Bair Hugger™ IV Pole Mount	1
90079	3M™ Bair Hugger™ Bed Rail Mount	1
90080	3M™ Bair Hugger™ Wall Mount	1
90082	3M™ Bair Hugger™ Replacement Temperature Controller	1
90090	3M™ Bair Hugger™ Rolling Cart	1

Catalog no.	Description	Units/case
90091	3M™ Bair Hugger™ Booties, X-Large	30
90094	3M™ Bair Hugger™ Rolling Cart Handle	1
90096	3M™ Bair Hugger™ Mount	1
90106	3M™ Bair Hugger™ Sensor Cable	1
90107	3M™ Bair Hugger™ Temperature Monitor Cable, 3.5–6.35 mm Compatible	1
90108	3M™ Bair Hugger™ Temperature Monitor Cable, 3.5–3.5 mm Compatible	1
90111	3M™ Bair Hugger™ Temperature Monitoring Calibration Verification Stick (36°C)	1
90113	3M™ Bair Hugger™ Power Supply — NEMA Power Receptacle compatible	1
90122	3M™ Bair Hugger™ Suction Mount Adapter	1
90124	3M™ Ranger™ Pressure Infusor Off-Set IV Pole Base	1
90126	3M™ Bair Hugger™ Temperature Monitor Knob and Stand	1
90127	3M™ Hook and Loop Tape	10
90128	3M™ Bair Hugger™ Temperature Monitoring Calibration Verification Sticks (31°C, 36°C, 41°C)	1
90130	3M™ Bair Hugger™ Temperature Monitor, Philips Compatible	1
90131	3M™ Bair Hugger™ Temperature Monitor, GE Compatible	1
90132	3M™ Bair Hugger™ Temperature Monitor, Draeger Compatible	1
90133	3M™ Bair Hugger™ Temperature Monitor, Space Labs Compatible	1
90224	3M™ Bair Hugger™ Power Cord 120V-B	1
96750	3M™ Bair Hugger™ Rolling Cart	1
96752	3M™ Bair Hugger™ 600 Series Replacement Hose	1
96753	3M™ Bair Hugger™ Warming Unit Replacement Filter	1

## Notes

## Notes

# For more information

Contact your local Solventum sales representative

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Call Customer Service at **1-800-228-3957**

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Visit **[bairhugger.com](https://bairhugger.com)** and **[rangerfluidwarming.com](https://rangerfluidwarming.com)**



**Solventum Corporation**  
2510 Conway Avenue  
St. Paul, MN 55144-1000  
USA

**Phone** 800-228-3957  
**Web** [bairhugger.com](https://bairhugger.com)  
[rangerfluidwarming.com](https://rangerfluidwarming.com)

**Note:** Specific indications, contraindications, warnings, precautions and safety information exist for these products and therapies. Please consult a clinician and product Instructions For Use prior to application. Rx only.

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