

# Keep your Patients Warm



## Anesthetized patients cannot regulate their temperature

The induction of anesthesia can cause a rapid drop in core body temperature and increase the risk of hypothermia. The adverse and costly outcomes associated with unintended hypothermia are well documented.\* By providing warmth with 3M™ Bair Hugger™ forced-air and fluid warming products, you can effectively prevent hypothermia in your patients.

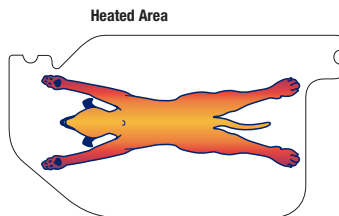
*\* Studies available upon request. Most studies performed on human patients.*



**Underbody Blanket**  
Model 55577

**Small Blanket**  
Model 53777

**Long Blanket**  
Model 53077



## Convective

### Key Elements of Warming

- Temperature
- Blanket Design
- Air Velocity

### Heat Exchange

- Recruits up to 64% of the body<sup>1</sup>
- Air-to-surface warming through perforations

### Pressure Point Safety

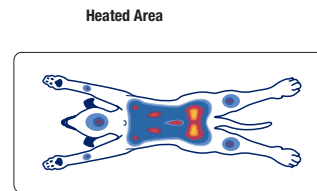
- Over-the-body style blankets (does not heat pressure points)
- Underbody style blankets (patient weight prevents heat from reaching pressure points, fluid outlets prevent fluid from pooling on blanket)

### Convenience

- No water leaks
- Disposable, no maintenance
- Single use
- Standard storage
- Pre-op, intra-op, recovery, procedure rooms, specialty suites, ER, trauma, etc.

### Modalities

- Over-the-body forced-air blankets
- Underbody forced-air blankets



## Conductive

- Temperature
- Contact pressure
- Duration (time)

- Recruits up to 20% of the body<sup>2</sup>
- Surface-to-surface contact warming

- Pressure points of the body provide the most surface-to-surface contact
- Pressure points may become ischemic and prone to pressure sore formation and thermal injury
- It is the warmest at the pressure points
- Fluids can pool on surface

- Risk of puncture, leaks and tears
- Needs to be cleaned if reused
- Reusable; risk of performance degradation
- Special storage needs may be required
- Primarily intra-op

- Electric pads
- Heated gel pads
- Water mattresses
- Electric table pads
- Heated water bottles



# Forced-Air Warming & Fluid Warming



**Bair Hugger Warming Unit**  
Model 50577 *New*  
Model 59577 *Refurbished*



**Bair Hugger 241  
Blood and Fluid Warming Set**  
Model 24110

## 3M™ Bair Hugger™ Warming Units

Bair Hugger warming units are the standard of care for forced-air warming therapy.

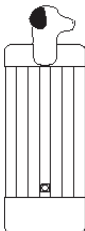
- Quiet and easy to use
- Small size provides more usable work space
- Freestanding, IV pole, and rolling cart mounting options available
- Built-in hour meter makes it easy to monitor usage for preventative maintenance
- Easy filter changes

## 3M™ Bair Hugger™ 241™ Fluid Warming Set

The Bair Hugger 241 blood and fluid warming set enables you to use two warming modalities with one piece of equipment – the Bair Hugger warming unit. Just slide the Model 241 set into a Bair Hugger warming unit hose and you instantly add fluid warming.

- No stand-alone fluid warmer required
- Infuse up to three liters per hour (KVO to 3,000 mL/hr)
- Primes with just 34mL volume
- Inexpensive disposable sets

## 3M™ Bair Hugger™ Therapy



**Large Blanket**

Model 30077  
84 x 36 in



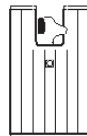
**Medium Blanket**

Model 31077  
60 x 36 in



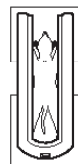
**Small Blanket**

Model 53777  
35 x 24 in



**Draped Blanket**

Model 54077  
42 x 36 in  
Drape: 24 x 24 in



**Long Blanket**

Model 53077  
74 x 8.5 in  
Drapes (2): 24 x 18 in



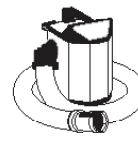
**Underbody Blanket**

Model 55577  
36 x 33 in  
Drapes (2): 24 x 24 in



**Large Underbody Blanket**

Model 55077  
60 x 32 in  
Drapes (2): 24 x 24 in



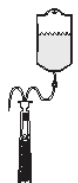
**Warming Unit**

Model 50577 *New*  
Model 59577 *Refurbished*  
13h x 10w x 11d in  
13.6 lb



**Warming Unit Filter**

Model 90009  
(for Models 50577 & 59577)  
*Change filter every 12 months or  
after 500 hours of use to ensure  
optimal performance*



**241 Blood and Fluid Warming Set**

Model 241  
Flow Rates: KVO to 3,000 mL/hr  
Priming Volume: 34 mL

## References

1. Taguchi, A., et al. Effects of a circulating water garment and forced-air warming on body heat content and core temperature. *Anesthesiology*. May 2004, Vol 100, No. 5: 1058-64.
2. Hohn, I., et al. Benefits of intraoperative skin surface warming in cardiac surgical patients. *British Journal of Anaesthesia*. 1998; 80: 318-323.



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