

# Helmier®

## HOTLINE™ Blood and Fluid Warmer

— 35 10  
12/18/2 19/2 16  
Performance You'll Warm Up To

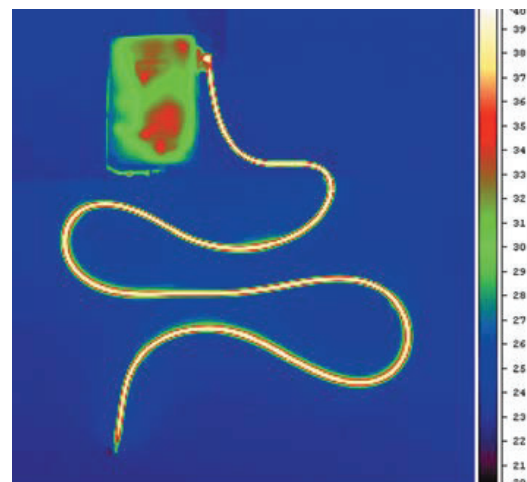


# Consistent Control for Temperature Management

## **HOTLINE** Blood and Fluid Warmers helps prevent perioperative hypothermia

General anesthesia patients that experience inadvertent hypothermia, a common but preventative complication, are at risk for poor outcomes.<sup>1</sup> Adverse outcomes include thermal discomfort, delayed post anesthetic recovery, increased perioperative blood loss, surgical wound infection, and duration of hospitalisation. It also affects antibody and cell-mediated immune defense, oxygen availability and post-operative adverse myocardial events. Even mild hypothermia contributes to delayed recovery and increased patient care costs.<sup>2</sup>

**HOTLINE** blood and fluid warmers help reduce the risk of inadvertent hypothermia by warming the fluids patient's receive during surgery. The way in which it works makes Hotline an excellent choice for any surgical procedure where patients may be at risk of even mild hypothermia.



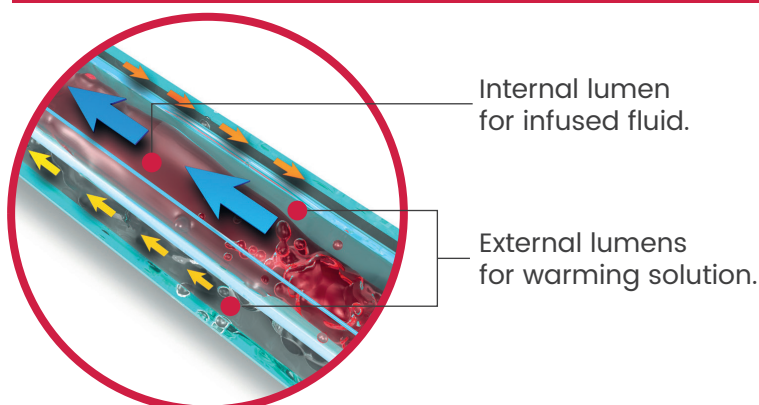
**HOTLINE**



### **HOTLINE (HL-90)**

- Delivers normothermic blood and fluids all the way to the patient, at gravity flow rates from 50 to 5000 mL/hour<sup>3</sup>, that is inherently free of 'hot spots'
- Triple lumen eliminates patient line cool down at routine flow rates
- Sterile Fluid Path
- Electronic circuitry limits the recirculating solution to 42°C. In the unlikely event of a malfunction of the circuit, a second 'watchdog' circuit will alarm and stop the pump

## **Triple-Lumen Tubing Technology Provides Even Heating**



\* When using hydrogen peroxide recirculating solution protocol

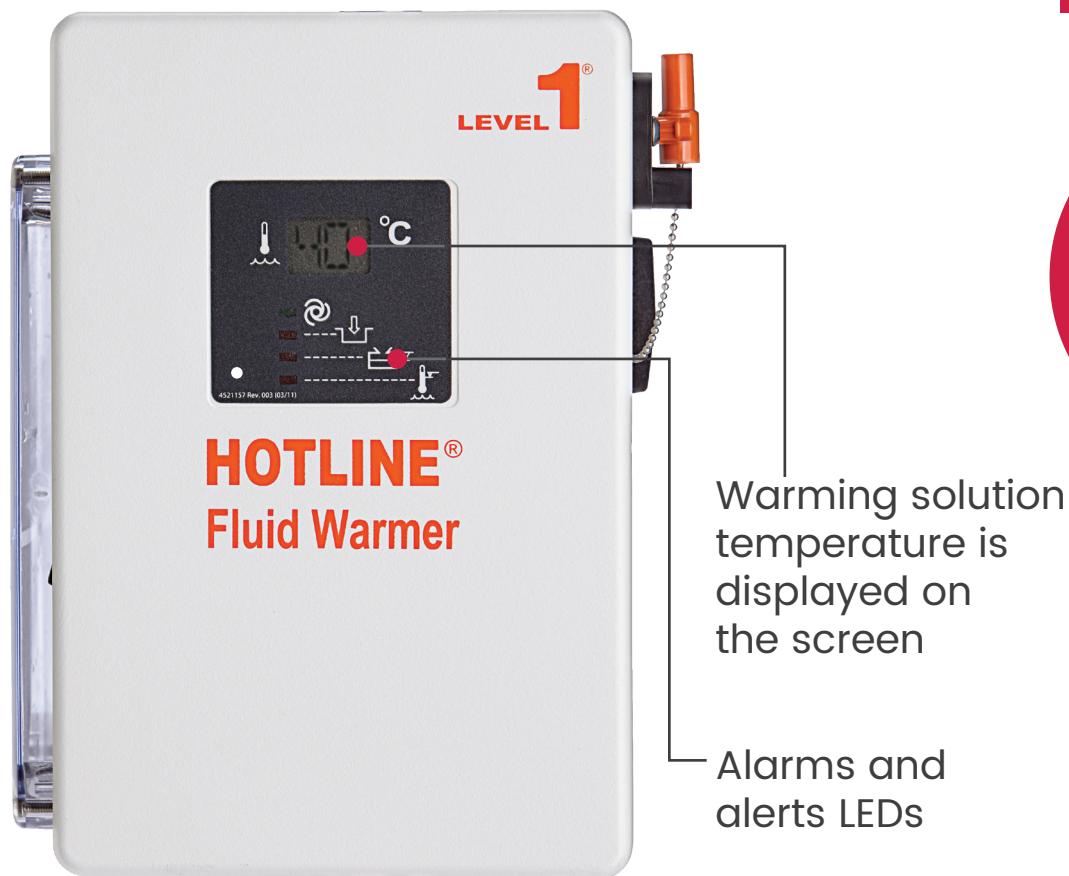
1. NICE Hypothermia: prevention and management in adults having surgery. Clinical guideline [CG65] Published:23 April 2008 Last updated 14 December 2016. <https://www.nice.org.uk/guidance/cg65%20Accessed%209.12.2022>.

2. Reynolds L, Beckmann, J and Kurz A. Perioperative complications of hypothermia. Best Pract Res Clin Anaesthesiol. 2008 Dec; 22(4): 645. doi: 10.1016/j.bpa.2008.07.005. Accessed 9.12.2022.

# HOTLINE

## Blood and Fluid Warmers.

Normotherm infusions, up to 5 liters/hour



### Performance

- Triple-lumen tubing provides even heating for normothermic fluid delivery all the way to the patient

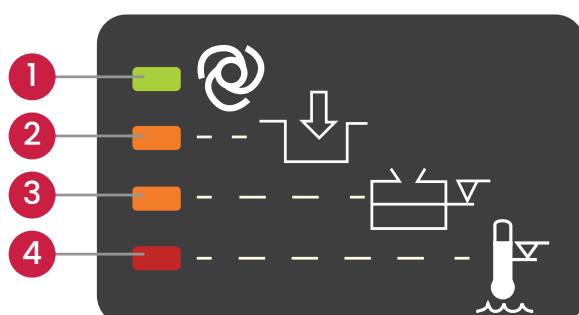
### Safety and Efficiency

- Warming solution temperature is displayed on the screen
- Visual and sound alerts/alarms

### Easy to Use

- Dedicated disposables
- Easy and quick set-up
- Annual maintenance\*

## ALERTS AND ALARMS



1. **Green** : Warmer is OK.
2. **Orange** : Check disposable connection.
3. **Orange** : Warming solution level below minimum.
4. **Red** : Over-heating of warming solution ( $>43^{\circ}\text{C}$ )  
Warming solution stops circulating.

# For Routine Flow Warming, Choose the Brand Hospitals Trust



Hotline Blood and Fluid Warmers  
help keep patients warmer,  
case after case.

## Ordering Information

### Hotline Routine Flow Fluid Warmer Hardware

Product Code : **HL-90-INT-230**  
Description : **HOTLINE™ Blood and Fluid Warmer, 41°C/105.8°F Set Point**  
Units Per Case : **1**



## Ordering Information

### Hotline Routine Flow Fluid Warmer Disposables

Product Code : **L-70**  
Description : **Blood and IV Fluid Warming set with Injection Port**  
Units Per Case : **30**

Additional information will be made available on request

Marketed by  
**Helmier**®

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human connections

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