

# smiths medical

## level 1®

### H-1200 Fast Flow Fluid Warmer with integrated Air Detector/Clamp

Temperature Management Solutions for improved patient outcomes



# THE STANDARD OF CARE FOR RAPID INFUSION

When lives are at stake from significant blood loss due to trauma or major surgery, the Level 1® Fast Flow Fluid Warmer provides a rapid flow of normothermic blood and I.V. fluids. Even a small drop in body temperature can be detrimental—delaying recovery or allowing infection to set in. Level 1® H-1200 Fast Flow Fluid Warmers allow rapid infusion of warm fluids while providing the extra level of protection of an integrated Air Detector/Clamp. Upon detection of air in the line, the flow of blood and crystalloid is automatically stopped, allowing quick removal of air and restoration of flow without disconnecting from the patient or changing disposable administration sets. Different disposable sets are available for a variety of clinical applications.

## Automated Pressure Chambers

- Mounted pressure chambers allow fast and easy bag changes
- Accommodate standard blood and crystalloid bags
- On/Off toggle switch automatically pressurizes chambers to a constant pressure of 300 mmHg

Warm  
Recirculating  
Solution



Aluminum,  
Counter-Current  
Heat Exchanger

## Heat Exchanger

- Aluminum heat exchanger transfers heat 1000 times faster than plastic<sup>1</sup>
- Counter-current recirculating solution at 42°C provides effective and stable heating

## Built-in Safety Features

- Displays reservoir set point
- Monitors reservoir temperature to prevent overheating
- Audible and visual alarms if reservoir temperature reaches 43.9°C
- Audible and visual alarms if disposable is not correctly inserted into the fluid warmer
- Audible and visual alarms if recirculating solution in reservoir is below the minimum desired level
- Meets all AABB standards for blood warming<sup>2</sup>
- Level 1® Air Detector/Clamp detects air in the I.V. line and stops flow of fluid if air is present



Level 1® H-31B Air  
Detector/Clamp







### Level 1® H-31B Air Detector/Clamp

- Operating Mode indicator lights **green** when the fluid warmer is ON, the disposable is properly inserted, and the Air Detector/Clamp door is closed
- Check Tubing Mode indicator lights **yellow** and a medium priority alarm beeps when the tubing has not been placed properly into the Air Detector/Clamp slot and/or when the Clamp Slot door is not closed correctly
- Air Detector/Clamped Mode indicator lights **red** and a high priority alarm beeps when air is detected in the Gas Vent/Filter Assembly – the patient line is automatically clamped preventing fluid going into the patient – it automatically unclamps and resumes operation once all air is removed through the Gas Vent
- Air is detected in the fluid path and removed through the Gas Vent without disconnecting from the patient
- Upgrade your Level 1® H-1025 Fast Flow Fluid Warmer with the new Level 1® H-31B Air Detector/Clamp to provide the benefits of air detection and automatic clamping

### Easy To Use

- Disposables are simple to insert and remove
- Gas Vent/Filter Assembly\* can be changed without replacing the entire disposable
- Durable surface makes it easy to clean
- Large roller wheels on base make it easy to transport within your facility



DI-100 Disposable Administration Set



Full Range of Disposable Administration Sets and Accessories

\* Gas Vent/Filter Assembly (F-10 and F-30) need replacing every three hours, when filter becomes clogged, or when flow rate slows down.

## High Performance Disposable Administration Sets and Accessories

Smiths Medical offers a full line of disposable administration sets and accessories for use with the Level 1® Fast Flow Fluid Warmer. Fast flow disposable administration sets and accessories offer:

- Latex-free
- Sterile fluid path
- Designed for single patient use

## Ordering Information

### Level 1® H-1200 Fast Flow Fluid Warmer with integrated Air Detector/Clamp

Product Code	Description	Units/Case
H-1200-EN-230V-CE	Level 1® Fast Flow Fluid Warmer with integrated Air Detector/Clamp	1

### Normothermic IV Administration Sets

Product Code	Description	Units/Case
DI-60HL	Maximum normothermic flow rate: 530 mL/min	10
DI-100	Maximum normothermic flow rate: 950 mL/min	10
DI-300	Maximum normothermic flow rate: 1400 mL/min	10

NOTE: D-60HL rates based on using crystalloid, 300 mmHg with 14g catheter. DI-100 and DI-300 flow rates based on using crystalloid, 300 mmHg with 8.5Fr catheter. (data on file)

### Accessories

Product Code	Description	Units/Case
F-10	Gas Vent/Filter Assembly (Replacement for D-60HL, D-70, D-100)	20
F-30	Gas Vent/Filter Assembly (Replacement for D-300)	20
PF-1	Fast Flow Pre-Filter (use one per unit of blood)	60
80-04-003	O-Ring Kit	1

## References

1. Flancbaum L et al. Evaluation of blood-warming devices with the apparent thermal clearance. Ann Emer Med. 1989;18:355-9.
2. Guidelines for the use of Blood Warming Devices. AABB. 2002.

For more information visit our website at [www.smiths-medical.com](http://www.smiths-medical.com)

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