

# 3M

## Bair Hugger™

### Temperature Management Unit Model 750

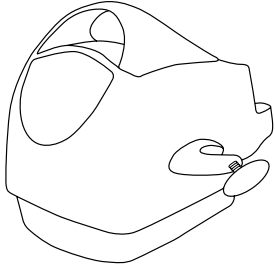
## Operator's Manual

- Ⓒ Temperature management unit Model 750  
Operator's manual
- Ⓕ Manuel de l'utilisateur pour appareil de gestion de la température Modèle 750
- Ⓓ Betriebsanleitung für Temperaturmanagement-Gerät Modell 750
- Ⓘ Manuale per l'operatore dell'unità per la gestione della temperatura Modello 750
- Ⓔ Manual del operario de la unidad de control de temperatura Modelo 750
- Ⓖ Gebruiksaanwijzing voor de temperatuurregelunit Model 750
- Ⓔ Användarhandbok för temperaturstyrenhet Modell 750
- Ⓓ Model 750 Brugsanvisning til temperaturreguleringsenhed
- Ⓖ Brukerhåndbok for temperaturbehandlingsenhet Modell 750
- Ⓕ Lämpötilansäätölaitteen – Malli 750 käyttöopas
- Ⓕ Manual do utilizador da unidade de gestão de temperatura Modelo 750
- Ⓒ Μοντέλο 750 Μονάδα Διαχείρισης Θερμοκρασίας-Εγχειρίδιο Χρήστη
- Ⓕ Instrukcja Obsługi Dmuchawy Model 750 - urządzenia do aktywnego przeciwdziałania hipotermii
- Ⓕ 750 sz. Modell testmelegítő berendezés Jednotka regulace teploty typ 750
- Ⓒ Modelis 750 Temperatūros reguliavimo prietaisas
- Ⓕ 750 Modelio temperatūros valdymo įtaiso naudojimo instrukcija
- Ⓕ Устройство управления температурой Модели 750 – Руководство по эксплуатации
- Ⓕ Çalıştırma El Kitabı - Vücut Isısı Yönetim Ünitesi Model 750
- Ⓕ 750型温度管理仪操作手册
- Ⓕ دليل المشغل وحدة التحكم في درجة الحرارة طراز 750



**Total Temperature Management™ System**





# 3M

## Bair Hugger

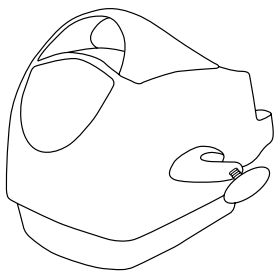
Temperature Management Unit

Model 750

## Operator's Manual

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**3M**

**Bair Hugger**

Temperature Management Unit

Model 750

## **Operator's Manual**

English 3



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## Introduction

### Description of the Total Temperature Management™ System

The 3M™ Bair Hugger™ brand Total Temperature Management™ system consists of a Model 750 forced-air temperature management unit (also available with rolling stand and sheet clip) and disposable components, including Bair Hugger forced-air blankets, 3M™ Bair Paws™ patient warming gowns and the 3M™ 241™ blood/fluid warming set.

The Bair Hugger warming unit is attached to the blanket or gown by means of a flexible hose. Warm air is generated in the unit and flows through the hose and into the blanket or gown. Depending on the model, the blanket or gown is placed either around, over, or underneath the patient. Small perforations on the blanket or gown allow the warm air to be delivered to the skin surface of the patient. For fluid warming applications, the Model 241 blood/fluid warming set is inserted in the warming unit hose. When a temperature setting is selected, warm air flows over the Model 241 tubing and warmed fluid exits from the distal end of the tubing. For additional information on Bair Hugger blankets, Bair Paws gowns, the 241 warming set, or other accessories visit us online at [bairhugger.com](http://bairhugger.com).

This manual includes operating instructions and unit specifications for the Model 750 temperature management unit. You can use the Model 750 temperature management unit in all clinical settings including the operating room to provide patient temperature management. For information about using Bair Hugger blankets, Bair Paws gowns or the 241 blood/fluid warming set with the Model 750 temperature management unit, refer to the Instructions for Use included with each of these disposable components. The Bair Hugger system should only be used by trained medical professionals.

### Indications

The Bair Hugger temperature management system is intended to prevent and treat hypothermia. In addition, the temperature management system can be used to provide patient thermal comfort when conditions exist that may cause patients to become too warm or too cold. The temperature management system can be used with adult and pediatric patients.

## Definition of Symbols

The following symbols may appear on the product's labeling or exterior packaging.



An equipotentiality plug (grounded) conductor other than a protective earth conductor or a neutral conductor, providing a direct connection between electrical equipment and the potential equalization busbar of the electrical installation. Please consult IEC 60601-1; 2005 for requirements.



Fuse



Caution  
Attention, consult appropriate documents



Nonexplosion proof



Type BF equipment (patient applied)



Voltage, alternating current (AC)



This system is subject to European WEEE Directive 2002/96/EC. This product contains electrical and electronic components and must not be disposed of using standard refuse collection. Please consult local directives for disposal of electrical and electronic equipment.



Protective earth ground



No free hosing



Consult operator's manual



Consult instructions for use



Recycle to avoid environmental contamination. This product contains recyclable parts. For information on recycling, please contact your nearest 3M Service Center for advice.



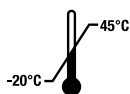
Date of manufacture



Manufacturer



Keep dry



Temperature limit

## Explanation of Signal Word Consequences



### **WARNING:**

Indicates a hazardous situation which, if not avoided, could result in death or serious injury.



### **CAUTION:**

Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

### **NOTICE:**


Indicates a situation which, if not avoided, could result in property damage only.

## Contraindications

Do not apply heat to lower extremities during aortic cross-clamping. Thermal injury may occur if heat is applied to ischemic limbs.



## **WARNINGS**

1. Do not leave patients with poor perfusion unmonitored during prolonged warming therapy sessions. Thermal injury may result.
2. The Bair Hugger temperature management unit has been designed to operate safely **ONLY** with 3M Patient Warming disposable components. Use with other products may cause thermal injury. (To the full extent permitted by law, the manufacturer and/or importer declines all responsibility for thermal injury resulting from the unit being used in conjunction with non-3M Patient Warming products.)
3.  Do not warm patients with the temperature management unit hose alone. Thermal injury may result. Always connect the hose to a Bair Hugger blanket or Bair Paws gown before providing therapy.
4. Do not place the non-perforated side of the blanket on the patient. Thermal injury may result. Always place the perforated side (the side with small holes) towards the patient.
5. Do not continue temperature management therapy if the Over-temp indicator light illuminates and the alarm sounds. Thermal injury may result. Unplug the unit, and contact a qualified service technician.
6. Do not continue 241 blood/fluid warming therapy if the Over-temp indicator light illuminates and the alarm sounds. Immediately stop fluid flow, and discard the blood/fluid warming set. Unplug the temperature management unit, and contact a qualified service technician.
7. Do not use a forced-air warming device over transdermal medication. Increased drug delivery and patient injury or death may occur.
8. Do not allow the patient to lie on the warming unit hose or allow the hose to directly contact the patient's skin during patient warming; thermal injury may result.

9. Reusable blankets made from woven fabric, or blankets without discrete, visible holes, can cause the safety system of this unit to fail, which may result in serious thermal injury. This warming unit has been designed to operate safely ONLY with Bair Hugger blankets and Bair Paws gowns.
10. Do not connect a Bair Hugger blanket, 241 blood/fluid warmer, or Bair Paws gown to the warming unit if it has been cut or damaged; thermal injury may result.
11. Do not use a Bair Hugger blanket to transfer or move the patient; injury may result.
12. To reduce the risks associated with hazardous voltage and fire:
  - keep power cord visible and accessible at all times. The plug on the power cord serves as the disconnect device. The wall socket outlet shall be as close as practical and shall be easily accessible.
  - use only the power cord specified for this product and certified for the country of use.
  - do not allow the power cord to get wet.
  - do not use the warming unit when it appears the warming unit, power cord or any component is damaged. Contact 3M Patient Warming technical support at 1-800-733-7775.
  - this equipment must only be connected to a supply mains with protective earth.
13. To reduce the risks associated with exposure to biohazards always perform the decontamination procedure prior to returning the warmer for service and prior to disposal.
14. Do not retain the patient using a warming blanket alone, as injury may result. Use a draw sheet, safety strap, or other means to retain the patient.
15. Do not modify this equipment without authorization of the manufacturer.
16. To ground this Bair Hugger warming unit, only connect to receptacles marked “Hospital Only,” “Hospital Grade,” or a reliable grounded outlet.



## CAUTIONS

1. Except for specific blanket models, Bair Hugger blankets are not sterile and are all intended for single patient use ONLY. Placing a sheet between the Bair Hugger blanket and the patient does not prevent contamination of this product.
2. Monitor the temperature and cutaneous response of patients who are incapable of reacting, communicating and/or who are without a sense of feeling every 10-20 minutes or according to institutional protocol. Monitor the patient's vital signs regularly. Adjust air temperature or discontinue therapy when the therapeutic goal is reached or if vital sign instability occurs. Notify physician of vital sign instability immediately.
3. Do not leave pediatric patients unattended during therapy.
4. Do not initiate temperature management therapy unless the temperature management unit is free from mechanical damage and is safely placed on a hard surface or securely mounted. Otherwise, injury may result.

5. To prevent tipping, clamp the Model 750 temperature management unit to an IV pole at a height that provides stability. We recommend clamping the unit no higher than 44" (112 cm) on an IV pole with a minimum 28" (71 cm) diameter wheelbase. Failure to do so may result in IV pole tipping, catheter site trauma, and patient injury.
6. Electrical shock hazard. Do not disassemble the temperature management unit unless you are a qualified service technician. There are electrically live parts within the unit when it is connected to a power source, even when the unit is in *Standby* mode.
7. To reduce the risks associated with environmental contamination follow applicable regulations when disposing of this device or any of its electronic components.

## Notices

1. The Bair Hugger temperature management unit meets medical electronic interference requirements. If radio frequency interference with other equipment should occur, connect the unit to a different power source.
2. Federal law (USA) restricts this device to sale by or on the order of a licensed healthcare professional.
3. To avoid Bair Hugger warming unit damage:
  - do not immerse the Bair Hugger warming unit or warming unit parts or accessories in any liquid or subject them to any sterilization process.
  - do not use solvents such as acetone or thinner to clean the warming unit; avoid abrasive cleaners.
  - clean warming unit exterior with soft cloth using plain water or a mild, all-purpose or nonabrasive cleaner.

## Proper Use and Maintenance

3M Patient Warming assumes no responsibility for the reliability, performance, or safety of the temperature management unit if the following events occur:

- Modifications or repairs are performed by unqualified personnel.
- The unit is used in a manner other than that described in the Operator's or Service Manual.
- The unit is installed in an environment that does not meet the appropriate electrical and grounding requirements.

## Read Before Servicing Equipment

All repair, calibration, and servicing of the temperature management unit require the skill of a qualified, medical equipment service technician who is familiar with good practice for medical device repair. If service does not require the manufacturer's attention, the Model 750 Service Manual provides the technical information needed to service the unit, or 3M Patient Warming will provide that information on request. Perform all repairs and maintenance in accordance with the instructions in the Service Manual.

## Overview and Operation

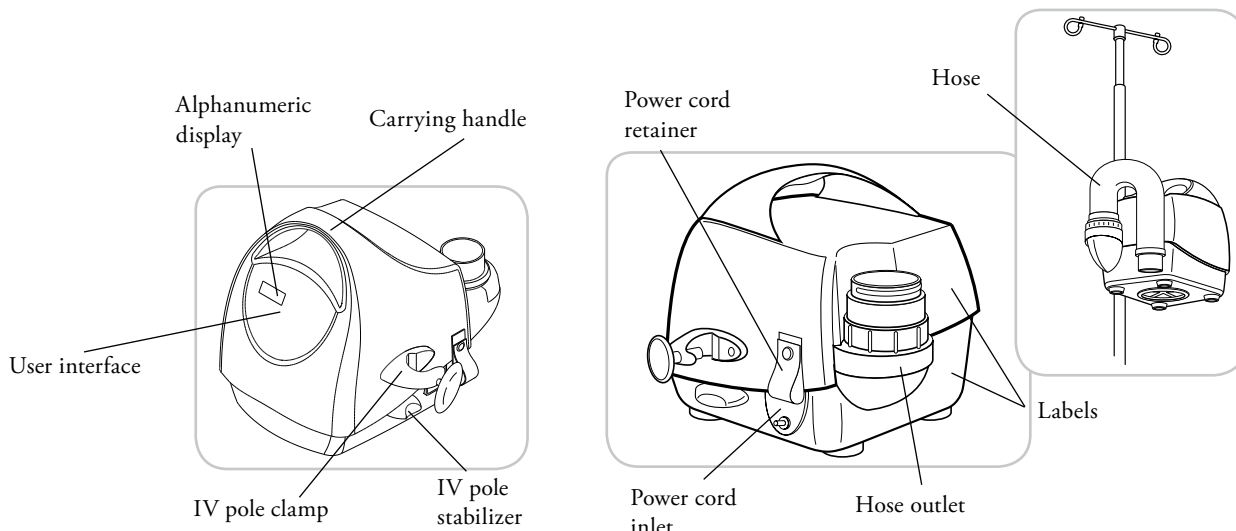


Figure A. Model 750 temperature management unit – front view

Figure B. Model 750 temperature management unit – rear view

### Unit Power-On-Reset

The Model 750 temperature management unit proceeds through the following power-on-reset sequence after you connect the unit to a grounded power source:

- Performs all self-test functions.
- Illuminates indicator lights and all pixels in the alphanumeric display momentarily.
- Displays the text “MD 700’s” and the software revision level in the alphanumeric display.
- Sounds the alarm (three low-level clicks).
- Enters the *Standby* mode.

If the temperature management unit loses power for less than 1 second, the unit’s software will return the unit to the operating mode you selected prior to the power loss. However, if the temperature management unit loses power for longer than 1 second, the unit’s software will reset when you restore power. The unit will then enter the *Standby* mode.

## Overview of Control Panel

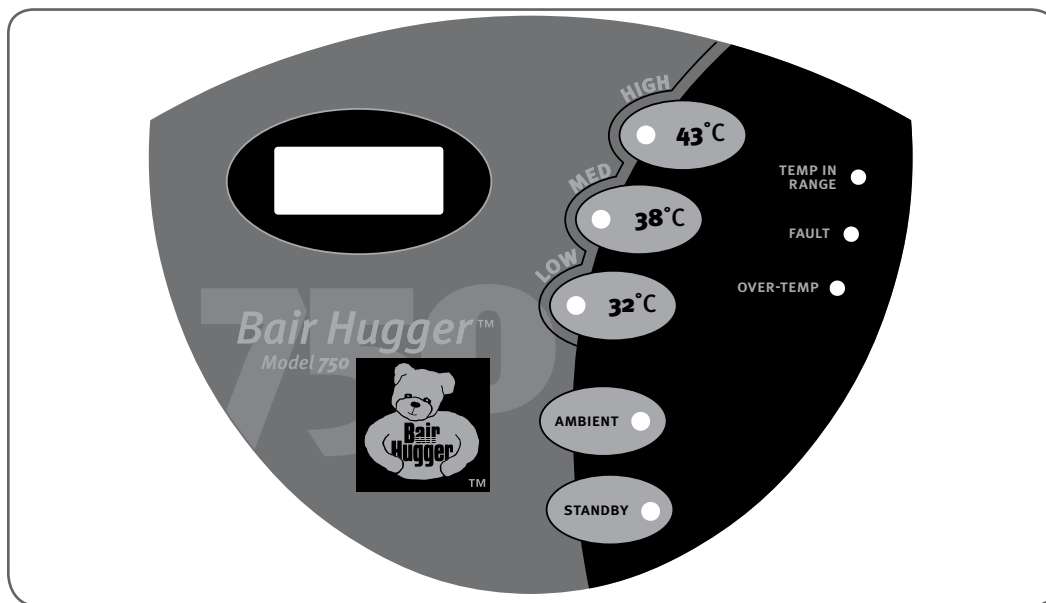


Figure C. Model 750 temperature management unit control panel

### ALPHANUMERIC DISPLAY

The alphanumeric display shows the temperature at the blanket end of the temperature management unit hose in degrees Celsius.

### TEMPERATURE MODES

- Press the *Low* (32°C), *Med* (38°C), or *High* (43°C) button to select the desired temperature.
- Press the **Ambient** button to supply room temperature air.
- When you select a temperature mode, the following events occur:
  - Corresponding indicator light illuminates.
  - Blower operates.
  - Temperature at the blanket end of the hose appears in the alphanumeric display.
  - Heater activates except in *Ambient* mode.
  - The timer resets itself every time you select a different temperature mode.

**STANDBY**

When the unit is in *Low* (32°C), *Med* (38°C), *High* (43°C), or *Ambient* mode, press the Standby button to place the unit in *Standby* mode.

When you select the *Standby* mode, the following events occur:

- *Standby* indicator light illuminates.
- Blower and heater are turned OFF.
- Alphanumeric display deactivates.
- Alarm and fault detection functions remain active.
- Operating timer pauses.

**TEMP IN RANGE INDICATOR LIGHT**

The *Temp in Range* indicator light illuminates when the temperature at the blanket end of the hose is  $\pm 1.5^{\circ}\text{C}$  of the selected setting; this indicator light does not illuminate in the *Ambient* mode.

**FAULT INDICATOR LIGHT**

When a system fault occurs, the amber *Fault* indicator light flashes and an alarm sounds.

Please refer to What to Do in Case of a Fault Condition on page 17 for additional information.

**OVER-TEMP INDICATOR LIGHT**

If the unit senses an over-temperature condition, the red *Over-temp* indicator light flashes and an alarm sounds.

Please refer to What to Do in Case of an Over-Temperature Condition on page 17 for additional information.



## Mounting the Temperature Management Unit to an IV Pole



### CAUTION

To prevent tipping, clamp the Model 750 temperature management unit to an IV pole at a height that provides stability. We recommend clamping the unit no higher than 44" (112 cm) from the floor on an IV pole with a minimum 28" (71 cm) diameter wheelbase. Failure to do so may result in IV pole tipping, catheter site trauma and patient injury.

### METHOD

To mount the Model 750 temperature management unit to an IV pole, simply turn the clamp handle clockwise to tighten the clamp on the IV pole and counterclockwise to release it. See Figure D.

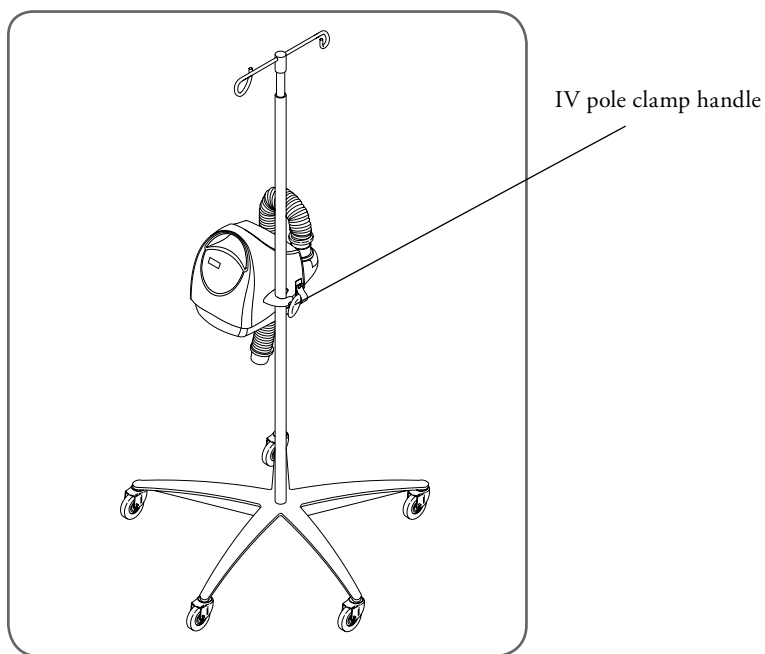


Figure D.

## Instructions for Use

The instructions below describe how to operate the Model 750 temperature management unit. For information about using Bair Hugger blankets, Bair Paws gowns, or the 241 blood/fluid warming set with the Model 750 temperature management unit, refer to the Instructions for Use included with each of these disposable components.

1. If the Model 750 temperature management unit is not mounted on an IV pole or Bair Hugger rolling stand, place the unit on a flat, hard, dry surface, such as a table, before beginning temperature management therapy. Do not place the temperature management unit on a soft or uneven surface, such as a bed, or the air intake may become blocked and cause the unit to overheat.

2. Insert the end of the temperature management unit hose into the hose port of a Bair Hugger blanket or Bair Paws gown. Use a twisting motion to ensure a snug fit. A visual marker (Figure E) is located around the mid section of the hose end to guide the depth of hose insertion.

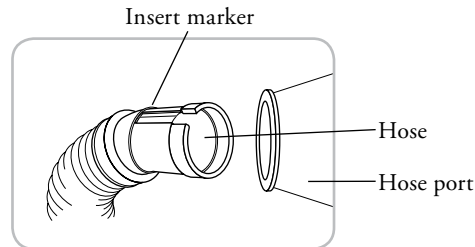


Figure E.

3. Connect the temperature management unit to a properly grounded power source. The unit will be operating in *Standby* mode and the *Standby* indicator light will illuminate.
4. Press the appropriate button to select the desired temperature. When the unit reaches the selected temperature, the *Temp in Range* indicator light will illuminate; this indicator light does not illuminate in the *Ambient* mode.
5. Monitor the temperature and cutaneous response of patients who are incapable of reacting, communicating and/or who are without a sense of feeling every 10-20 minutes or according to institutional protocol. Monitor the patient's vital signs regularly. Adjust air temperature or discontinue therapy when the therapeutic goal is reached or if vital sign instability occurs. Notify physician of vital sign instability immediately.
6. Press **Standby** button when temperature management therapy is complete and discard disposable components.
7. Unplug the temperature management unit to disconnect it from the power source.

## Viewing the Temperature Mode Timer

The temperature mode timer records the amount of time the temperature management unit has been operating in the selected temperature mode. The timer resets itself every time you select a different temperature mode.

To view the temperature mode timer, press the button for the current temperature mode, and hold it for 3 seconds. The alphanumeric display will show the temperature mode time, then go back to showing the temperature mode setting.

## What to Do in Case of an Over-Temperature Condition

If an over-temperature condition occurs, the red *Over-temp* indicator light flashes and an alarm sounds. The unit automatically turns the heater, blower, and operating mode indicator lights OFF. The control panel will not respond to commands, but pressing any button will silence the alarm.

### IF AN OVER-TEMPERATURE CONDITION OCCURS:

1. Discontinue all temperature management therapy. If you are using the 241 blood/fluid warming system, immediately stop fluid flow and discard the blood/fluid warming set.
2. Unplug the temperature management unit.
3. Contact a qualified service technician.

## What to Do in Case of a Fault Condition

The Model 750 temperature management unit's software recognizes several non-hazardous conditions and reports those conditions as faults. When a system fault occurs, the software stores the fault code in memory, the amber Fault indicator light flashes, and an alarm sounds. The control panel will not respond to commands, but pressing any button will silence the alarm.

### IF A FAULT CONDITION OCCURS:

1. Unplug the temperature management unit and wait for 5 minutes.
2. Reconnect the temperature management unit to a grounded power source. The unit will perform the normal power-on-reset sequence and then enter the *Standby* mode.
3. Reselect the temperature setting.
4. If the unit does not return to normal operation, contact a qualified service technician.

## General Maintenance and Storage

### Cleaning the Cabinet and Hose

**WARNING**

Do not immerse the cabinet or hose while cleaning. Moisture will damage the components, and thermal injury may result.

**CAUTIONS**

- Do not use a dripping wet cloth to clean the cabinet. Moisture may seep into the electrical contacts and damage the components.
- Do not use alcohol or other solvents to clean the cabinet. Solvents may damage the labels and other plastic parts.

**METHOD**

1. Disconnect the temperature management unit from the power source before cleaning.
2. Wipe the cabinet and the outside of the hose with a damp, soft cloth and a mild detergent or antimicrobial spray.
3. Dry with a separate soft cloth.

### Storage

Store all components in a cool, dry place when not in use.

## Technical Support and Customer Service

### USA, WORLDWIDE

TEL:

800-733-7775

952-947-1200

FAX:

800-775-0002

952-947-1400

### When You Call for Technical Support

We will need to know the serial number of your Bair Hugger temperature management unit when you call us. The serial number label is located on the back or side of the Bair Hugger temperature management unit.

### In-Warranty Repair and Exchange

#### USA

Call 3M Patient Warming customer service if your Model 750 temperature management unit requires factory service. A customer service representative will give you a Return Authorization (RA) number. Please use this RA number on all correspondence concerning your temperature management unit. Your customer service representative will also send a shipping carton to you at no charge, if needed. Call your local supplier or sales representative to inquire about borrowing a temperature management unit while we service your unit. For more detailed instructions on returning units for service, please refer to the Model 750 Service Manual.

#### WORLDWIDE

Contact your local distributor concerning in-warranty repair and exchange.

## Specifications

### Physical Characteristics

DIMENSIONS	12.5" high x 13.5" deep x 10" wide 31.5 cm high x 34 cm deep x 25 cm wide
WEIGHT	16.3 lb (7.4 kg)
RELATIVE NOISE LEVEL	55 dBA
HOSE	Flexible, compatible with the Bair Hugger brand 241 blood/fluid warming system.
FILTRATION SYSTEM	High efficiency 0.2 µm filter
RECOMMENDED FILTER CHANGE	Every 12 months or 500 hours of use.
MOUNTING	Can be clamped to an IV pole, placed on a hard surface, or mounted to the rolling stand accessory.


### Temperature Characteristics

RECOMMENDED OPERATING ENVIRONMENT	Temperature: 15°C-25°C Humidity: Max relative humidity 80% (up to 31°C) decreasing linearly to 50% relative humidity at 40°C Altitude: Max 2,000m
TEMPERATURE CONTROL	Electronically controlled.
HEAT GENERATED	1644 BTU/hr (average), 482 W (average)
OPERATING TEMPERATURES	Average temperatures at the end of the hose: HIGH: 43° ± 1.5°C      109.4° ± 2.7°F MED: 38° ± 1.5°C      100.4° ± 2.7°F LOW: 32° ± 1.5°C      89.6° ± 2.7°F
TIME TO REACH OPERATING TEMPERATURE	2 - 5 minutes (dependent on blanket model) Time required for the contact surface temperature to heat up from 23 ± 2°C to 37°C (73 ± 2°F to 99°F)
STORAGE/TRANSPORT TEMPERATURE	-20°C to 45°C (-4°F to 113°F) Store all components in a cool, dry place when not in use.

### Safety System

THERMOSTAT	Independent electronic circuit; thermal cutoff shuts the heater OFF to ensure hose end air remains below 56°C (53°C ± 3°C typical); back-up over-temperature detection at hose inlet.
ALARM SYSTEM	Over-Temperature (≤56°C, 53°C ± 3°C typical): red <i>Over-Temp</i> indicator light flashes, alarm sounds, heater and blower shut down, operating indicator lights turn OFF, control panel becomes unresponsive.  Fault: amber <i>Fault</i> indicator light flashes, alarm sounds.
OVERCURRENT PROTECTION	Dual input fused lines.

## Electrical Characteristics

HEATING ELEMENT	1400 W Resistive
LEAKAGE CURRENT	Meets UL 60601-1 and IEC 60601-1 requirements.
BLOWER MOTOR	Operating speed: approximately 4,000 rpm Airflow: up to 48 cfm or 23 L/s
POWER CONSUMPTION	Peak: 1550 W Average: 800 W
POWER CORD	15 ft., SJT, 3 cond., 13 A 15 ft., SJT, 3 cond., 15 A 4.6 m, HAR, 3 cond., 10 A
DEVICE RATINGS	110-120 VAC, 50/60 Hz, 11.7 A, or 220-240 VAC, 50/60 Hz, 7.2 A, or 100 VAC, 50/60 Hz, 15 A
FUSES	Type: Fast acting ceramic fuses, 250 VAC Amp rating: 12 A (110 - 120 VAC) 8 A (220 - 240 VAC) 15 A (100 VAC)  Operating speed: F (Fast Acting)  Breaking capacity: 15 A, 12 A: 750 A @ 250 Vac 15 A, 12 A: 10,000 A @ 125 Vac 8 A: 200 A @ 250 Vac 8 A: 10,000 A @ 125 Vac
CERTIFICATIONS	EN 60601-1; EN 60601-1-2; UL 60601-1; CAN/CSA-C22.2, No. 601.1, EN 55011; EN 80601-2-35
CLASSIFICATION	 <p><b>MEDICAL — GENERAL MEDICAL EQUIPMENT AS TO ELECTRICAL SHOCK, FIRE AND MECHANICAL HAZARDS ONLY IN ACCORDANCE WITH UL 60601-1; CAN/CSA-C22.2, No.601.1; ANSI/AAMI ES60601-1:2005 CSA-C22.2 No. 60601-1:08; EN 80601-2-35; Control No. 4HZ8.</b></p> <p>Classified under IEC 60601-1 Guidelines (and other national versions of the Guidelines) as Class I, Type BF, Ordinary equipment, Continuous operation. Not suitable for use in the presence of flammable anesthetic mixtures with air or with oxygen or nitrous oxide. Classified by Underwriters Laboratories Inc. with respect to electric shock, fire and mechanical hazards only, in accordance with UL 60601-1, EN 80601-2-35 and in accordance with Canadian/CSA C22.2, No. 601.1. Classified under the Medical Device Directive as a Class IIb device.</p>
DIAGNOSTICS	A qualified service technician can perform over-temperature detection system testing, temperature output testing, operating temperature calibration, and fault code troubleshooting.



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