

Operator's Manual

Blanket Warmer

EC2060



MN-39929

REV.05 2/24

Manufacturer's Information

| Copyright | © Copyright 2/24 by Enthermics Medical Systems, Inc. |
|-----------------------|---|
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| | This manual or any portion thereof may not be reproduced or used in any manner whatsoever without the express written permission of Enthermics Medical Systems. |
| Trademarks | All trademarks referenced in this documentation are the property of their respective owners. |
| Manufacturer | |
| | Enthermics Medical Systems, Inc. |
| | An ISO 13485:2016 certified company |
| | W164 N9221 Water Street |
| | Menomonee Falls, WI 53051, USA |
| Original instructions | The content in this manual is written in American English. |

Thank you for your Purchase!

This warmer has been thoroughly tested and inspected to ensure only the highest quality is provided. We supply the most durable, convenient, efficient and safe warming equipment on the market. All warmers are manufactured and fully inspected in the USA with a commitment to quality.

Register Your Warmer

Register

Register your Enthermics appliance online. Registering your appliance ensures prompt service in the event of a warranty claim. You will also receive direct notifications of software updates and additional product information.

Your personal information will not be shared with any other company.

www.enthermics.com/warranty-registration

Enthermics 24/7 Emergency Repair Service

Call

Call 800-558-8744 to reach our 24-hour emergency service call center for immediate access to local authorized service agencies outside standard business hours. The emergency service access is provided exclusively for Enthermics Medical Systems, Inc. equipment and is available throughout the United States through Enthermics toll free number.

Availability

Emergency service access is available seven days a week, including holidays.

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Foreword

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The Meaning of Signal Words

This manual contains signal words where needed. These signal words must be obeyed to reduce the risk of death, personal injury, or equipment damage. The meaning of these signal words is explained below.



DANGER

Danger indicates a hazardous situation which, if not avoided, will result in serious injury or death.



WARNING

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



CAUTION

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.



NOTE: Note indicates additional information that is important to a concept or procedure.

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Safety Precautions

| Before you begin | Read and understand all instructions in this manual. |
|-------------------------------|---|
| Electrical precautions | Obey these electrical precautions when using the warmer: |
| | Connect the warmer to a properly grounded outlet. Do not use the warmer if it is not properly grounded. Consult an electrician if there is any doubt that the outlet used is properly grounded. Keep the cord away from hot surfaces. Do not attempt to service the warmer or its cord and plug, when plugged in. |
| | Do not operate the warmer if it has a damaged cord or plug. |
| | Do not immerse the cord or plug in water. |
| | Do not let the cord hang over the edge of a table or counter. |
| | Do not use an extension cord. |
| Usage precautions | Obey these usage precautions when using the warmer: |
| | Only use this warmer for its intended use of warming medical solution bags, bottles, and/or blankets. Follow facility and solution manufacturer guidance regarding warming temperature for any item to be placed in the warmer. |
| | Do not use this warmer for warming blood or blood products. |
| | Do not cover or block any of the openings of this warmer. |
| | Do not use this warmer in a wet location. |
| | Only clean the warmer when the power cord is unplugged. |
| | Do not use corrosive chemicals when cleaning the warmer. |
| | Do not use the warmer cavity for storage. |
| | Do not remove exterior panels from the warmer or attempt repairs. The warmer has no user-serviceable internal components. Only perform routine cleaning and maintenance procedures specifically described in this manual. Inspection and servicing of internal components must only be performed by qualified service personnel. |
| | Only a qualified Enthermics service representative may make modifications to the warmer. Modifications to the warmer could be hazardous to users and patients. |
| Operator training | All personnel using the warmer must have proper operator training. Before using the warmer: |
| | Read and understand the operating instructions contained in all the documentation delivered with the warmer. |
| | Know the location and proper use of all controls. |
| | Keep this manual and all supplied instructions, diagrams, schematics, parts lists, notices, and labels with the warmer if the warmer is sold or moved to another location. |

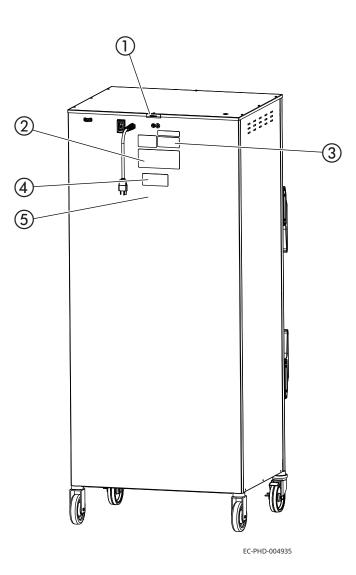


| Operator qualifications | Only trained personnel with the following operator qualifications are permitted to use the warmer: |
|----------------------------|--|
| | Have received proper instruction on how to use the warmer. |
| | Are familiar with the purpose, limitations, and associated hazards of the warmer. |
| | The warmer must not be used by: |
| | People impaired by drugs or alcohol. |
| Condition of warmer | Only use the warmer when: |
| | All controls operate correctly. |
| | The warmer is installed correctly. |
| | The warmer is clean. |
| | The warmer labels are legible. |
| Servicing the warmer | Obey precautions in the manual, on tags, and on labels attached to or shipped with the warmer. |
| | Only trained personnel are permitted to service or repair the warmer. Repairs that are not performed by a trained technician, or the use of non-factory parts, will void the warranty and relieve all liability. |
| | Any troubleshooting guides and components views included with this manual are for reference only and are intended for use by qualified and trained service technicians. |
| | To prevent serious injury, death or property damage, have the warmer inspected and serviced at least every twelve (12) months by a trained technician. |
| | Contact Enthermics for the authorized service partner in your area. |
| Incident notice | Any serious incident that has occurred in relation to the warmer should be reported to the manufacturer and the competent authority of the Member State in which the user and/or patient is established. |



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Label Locations



LABELS

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LABELS

| 1 | Security Seal Security Seal Security Seal Security Seal Security Seal Security Seal | Security seal |
|---|---|---|
| 2 | WORTHON MARTINO ACCESS FOLDUE DE MADE DE VOLKFIED SERVICE TECHNELANS ONLE MACCES DOTT FITE RÉSERVE DECLASIVANÉ ADE TECHNELANS ONLE MARCES DOTT FITE ADE TECHNEL ADE TECHNELANS ONLE CONTACT ALL ADE TECHNELANS ONLE CONTACT ADE TECHNELANS ONLE ADE TECHNELANS ADE TECHNELANS ONLE CONTACT ADE TECHNELANS ONLE ADE TECHNELANS ONLE CONTACT ADE TECHNELANS ONLE CONTACT ADE TECHNELANS ADE TECHNELANS ONLE CONTACT ADE TECHNELANS ONLE CONTACT ADE TECHNELANS ONLE ADE TECHNELANS ONLE CONTACT ADE TECHNELANS ONLE CONTAC | Electrical warning label |
| 3 | Image: Service Call 800-862-9276 Image: Service Call 800-862-9276 Image: Service Call 800-862-9276 Image: Servi | Enthermics contact information |
| 4 | QUALITY INSPECTED Inspectors initials Date www.enthermics.com/quality | Quality inspected |
| 5 | WARNING: This product can expose you to chemicals including Formaldehyde, which are known to the state of California to cause cancer. For more information, go to www.p65warnings.ca.gov. AVERTISESEMENT: Ce product peut vous exposer à des substances, teles que la formaldéhyde, déclarées candrágines par l'Etad de California, ou part your plus offichmanno, aller a www.p65warnings.ca.gov. ADVERTENCIA: Este producto lo puede exponer a sustancias químicas como el formaldéhido que, según el conocimiento del estado de California, provoca cáncer. Para obtener más información, vialte www.p65warnings.ca.gov. LA47801 | WARNING This product can expose you to chemicals including Formaldehyde, which are known to the state of California to cause cancer. For more information, go to www.p65warning.ca.gov. |

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Specification Information

| | Model | EC2060 | | |
|---------------------------------------|---|---|--|--|
| | Intended use | Warming blankets | | |
| | Weight | Net: 347 lb (157 kg) | | |
| | weight | Ship: 404 lb (183 kg) | | |
| | Storage cavity capacity | 60–70 blankets (20.6 ft ³) | | |
| | Temperature range | 60°F to 160°F (16°C to 71°C) | | |
| | Clearance requirements | 4" (102mm) from rear 4" (102mm) from top 2" (51mm) from sides | | |
| Transportation and storage conditions | Relative humidity range o | ige of -40°F to +159°F (-40°C to +70°C). if 10% to 95%, non-condensing. ige of 7.25 psi to 15.37 psi (50kPa to 106kPa). | | |
| Operating conditions | The warmer must acclimate to the room temperature it will be placed in—24 hours is recommended. | | | |
| | The recommended enviro (15°C to 32°C). | onmental temperature range is 60°F to 90°F | | |
| | The recommended relative | e humidity is above 20%, non-condensing. | | |
| Standards for electrical equipment | Laboratory equipment listed by Underwriters Laboratories with respect to electrical shock, fire, and mechanical hazards only, in accordance with UL 60601-1 and CAN/CSA C22.2 No. 601.1. Grounding reliability can only be achieved when the appliance is connected to an equivalent receptacle marked "Hospital Grade." IP-XO ordinary | | | |

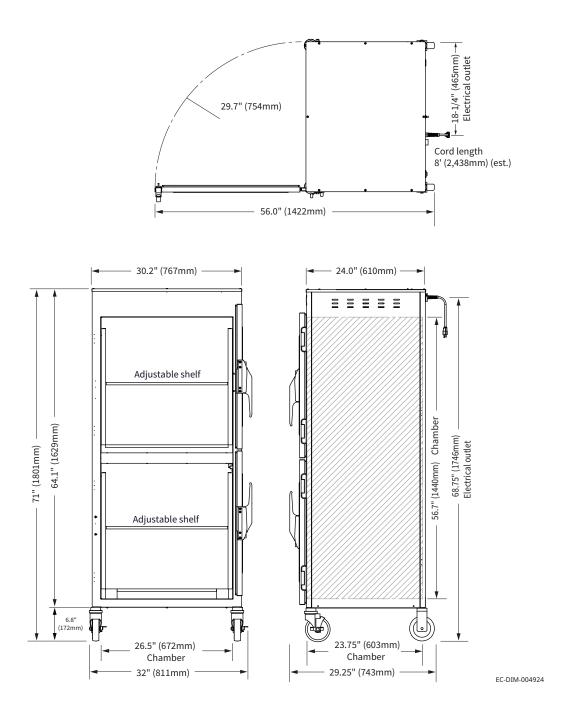
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Dimension Drawings

EC2060



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How to Unpack the Warmer



WARNING: Crushing hazard.



An unstable warmer can lead to a crushing hazard. Observe your facility's best practices for moving large equipment.

Before you begin

Make sure you have:

- Reviewed the warmer specifications.
- An appropriate lifting device and enough personnel to safely move and position the weight of the warmer.
- Cutting tools to remove the packaging.

Unpack the warmer

To unpack the warmer, do the following.

Step Action 1. **Remove** the box or crate. **Save** all packing materials for inspection by the carrier.

2.

NOTE: Examine the warmer for damage. If the warmer has been damaged, do not use the warmer until it has been inspected by an authorized service provider. Contact your carrier or customer service.

- Cut and remove the retaining straps and plastic wrap.
- 3. **Remove** the warmer from the pallet using an appropriate lifting device.
- 4. **Remove** the paperwork from the cavity.

Result

The warmer is now unpacked.

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How to Install the Warmer

| Before you begin | Make sure you have: | | | | | |
|---------------------|---|---------------------------------|-----------------------------------|---------------------|------------------------------|-------------|
| | An appropriate lifting device and enough personnel to safely move and position the weight of the warmer. | | | | and position | |
| Requirements | The warmer must be installed on a level surface. The warmer must not be installed in any area where it may be affected by steam, dripping water, high temperature, or any other severely adverse conditions. | | | | | |
| Voltages | | | | | | |
| | Mode | I | V | Ph | Hz | kW |
| | EC206 | 0 | 120 | 1 | 50/60 | 1.8 |
| | | | 230 | 1 | 50/60 | 1.7 |
| Position the warmer | To position the warmer, do the following. | | | | | |
| | Step | Action Make sure th | | | | |
| | 1. | The location | | rmer is being ins | stalled is rated to รเ | upport the |
| | | The warm | er is within five | feet of the appro | priate electrical ou | tlet; |
| | | | the warmer cle n for clearance | - | es. Refer to topic <i>Sp</i> | ecification |
| | 2. | Move the war surface. | rmer to the insta | allation location a | and onto the final r | esting |
| | 3. | Lock the cast | ers, if equipped. | | | |
| | The wa | rmer is now co | orrectly positio | ned. | | |
| Connect power | To conr | ect electric po | ower to the wa | rmer, do the fo | llowing. | |
| | 4. | Connect the | plug to the elect | rical outlet. | | |
| Result | The warmer is now installed and ready to be used. | | | | | |

Preparing the Warmer for First Use

Before you begin

CAUTION: Burn hazard.



Allow the warmer to cool before cleaning.

| NOTICE | Do not use: |
|--------|--|
| | abrasive cleaning compounds. |
| | chloride based cleaners. |
| | commercial or household cleaners containing ammonia. |

Procedure

To prepare the warmer for first use, do the following.

| Step | Action |
|--------|---|
| 1. | Make sure that the warmer is turned off and cool. |
| 2. | Wipe the outside of the warmer: |
| | with a stainless steel cleaner, if stainless steel panels. |
| | with an approved cleaning agent, if painted panels. |
| 3. | Clean the interior of the warmer with a damp cloth or approved cleaning agent. |
| 4. | Dry the interior and exterior of the warmer with a clean, lint-free cloth. |
| | Leave the door open until the interior of the warmer completely dries. |
| 5. | Clean each side of the window pane with glass cleaner or distilled vinegar. |
| The wa | rmer is now ready for use. |

Result

How to Turn On and Turn Off the Warmer

Before you begin The warmer must be connected to electric power. To turn on the warmer, do the following. **Turning on the** warmer Step Action **Set** the power switch (1) to the ON (I) position. 1. D н 0-O EC-TS-004951 2. The screen turns on. NOTE: A temporary odor may be noticeable upon initial start-up of the warmer. Contact the manufacturer if the odor persists after a day or more of continuous use. The warmer is now on. Turning off the To turn off the warmer, do the following. warmer Rotate the Temperature Control Knob 🍈 to the off (vertical) position. The 3. screen will display "0°F" or "0°C". Set the power switch to the OFF (O) position. The screen will not turn off unless the power switch is turned off. **NOTE:** If equipped, the fan will continue to operate after

the warmer is turned off.

The warmer is now off.

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How to Operate the Blanket Warmer

| Before you begin | The warmer must be connected to electric power and turned on. |
|------------------|---|
| | WARNING: Personal injury hazard.Do not operate the warmer in the presence of a flammable anesthetic mixture with air, oxygen, or nitrous oxide; in oxygen-enriched environments; or in any other potentially explosive environment. |
| | WARNING: Personal injury hazard.Make sure the blanket support assembly and shelves are installed to prevent the blankets from being scorched or discolored. |
| | NOTICEDo not overload the cavity.Allow 1" (25mm) between the blankets and the interior walls. |
| | |
| Procedure | To operate the warmer, do the following. |
| Procedure | Step Action 1. Set the temperature in 5° increments using the Temperature Control Knob Image: Control Knob Image: Control |
| Procedure | Step Action 1. Set the temperature in 5° increments using the Temperature Control Knob Image: Control Knob Image: Control |

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To toggle between Set and Actual Temperature

Factory default is to display Set Temperature in the screen. To toggle the screen between Set Temperature and Actual Temperature, do the following.

| Repeat to toggle to Set Point "SET". Press the Temperature Display Button at any time to display the | |
|---|-----|
| 5. Press the Temperature Display Button 🕼 at any time to display the | |
| alternate temperature. | |
| 6. Rotate the blankets daily from the bottom to the top of the load to ensuequal heating and to prevent discoloration. | ıre |

Result

The blankets are now warming.

How to Change the Temperature Scale

| Before you begin | The warmer must be connected to electric power. | | | |
|-------------------------------------|--|---|--|--|
| To toggle between Fahrenheit and | ory default is Fahrenheit. To change to Celsius, do the following. | | | |
| Celsius | Step | Action | | |
| | 1. | With the control OFF (i.e., The Temperature Control Knob () set to the OFF [vertical] position), press and hold the Temperature Display button () for 5 seconds. | | |
| | 2. | The screen will display "°C" for 3 seconds to verify selection and then display the temperature in °C. | | |
| | 3. | Repeat to toggle to Fahrenheit. | | |
| | | NOTE: With a power failure, the control will retain the °C or °F setting selected by the user when power is restored. | | |
| Result | The tem | perature scale has now been changed. | | |

How to Lock and Unlock the Controller

| Before you begin | The warmer must be turned on (screen is on). | | |
|--------------------------|--|---|--|
| Background | The controller can be locked to prevent changes being made to the temperature set-point. | | |
| Locking the controller | To lock the controller, do the following. | | |
| controller | Step | Action | |
| | 1. | Press the Control Lock button and the Temperature Display button at the same time. The Digital Display will read "LOC". | |
| Unlocking the controller | To unlo | ck the controller, do the following. | |
| | 2. | Press the Control Unlock button and the Temperature Display button at the same time. The controller is now unlocked and will adjust temperature to the current Temperature Control Knob setting. | |
| | | NOTE: The Digital Display will not indicate the controller is unlocked. | |
| Result | The con | troller has now been locked or unlocked. | |

Maintenance Schedule

NOTE: Do not remove exterior panels from the warmer or attempt repairs. The warmer has no user-serviceable internal components. Only perform routine cleaning and maintenance procedures specifically described in this manual.

For daily maintenance, do the following.

Check:

- the air vents in the airflow insert panels are not obstructed (if applicable).
- all fan guards are clear and not obstructed (if applicable).
- the number of bottles/bags, or blankets as applicable do not exceed the maximum capacity per shelf or basket.

Clean:

any spills with a clean, lint free cloth. See topic *How to Clean the Warmer* for the list of approved cleaners.

Monthly

Daily

For monthly maintenance, do the following.

Check:

- the door gasket for tears and holes. Make sure that it is firmly attached to the door. Check the seal when the door is closed.
- the guards around the air temperature sensor are in place and fully secure to the warmer.
- the hardware securing the warmer(s) to the wall, if applicable.

Clean:

- the outside of the warmer with stainless steel cleaner. See topic *How to Clean the Warmer* for the list of approved cleaners.
- vacuum (if applicable):
 - fan openings
 - fan sail switch
 - vent openings

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Yearly

For yearly maintenance, do the following.

Check:

- the set-point temperature compared to the actual temperature displayed.
 - Check the cavity air temperature with a thermocouple placed 1" (25mm) from the cavity sensor. Do not allow the thermocouple to touch any surface. Monitor the temperature for approximately one hour in an empty cavity.
- the condition of the plug and cord and replace if damaged.
- the controller screen for excessive wear. Make sure the controller screen displays and operates properly.

Clean:

the shelves and interior of the warmer. See topic *How to Clean the Warmer* for the list of approved cleaners.

How to Clean the Warmer

Before you begin



WARNING: Electric shock hazard. Disconnect the warmer from electric power before cleaning.



CAUTION: Burn hazard. Allow the warmer to cool before cleaning.

| NOTICE | Do not use: | |
|--------|---|--|
| | abrasive cleaning compounds. | |
| | chloride based cleaners. | |
| | commercial or household cleaners containing ammonia. | |
| | cleaners containing quaternary salts. | |

Monthly cleaning procedure

To clean the warmer monthly, do the following.

| Step | Action |
|------|---|
| 1. | Make sure that the warmer is disconnected from electric power and cool. |
| 2. | Wipe the outside of the warmer with a stainless steel cleaner. |
| 3. | Vacuum lint from fan openings, fan sail switch, and vent openings (if applicable). |
| 4. | Clean the interior of the warmer with a damp cloth. |
| 5. | Dry the interior and exterior of the warmer with a clean, lint-free cloth. |
| | Leave the door open until the interior of the warmer completely dries. |
| 6. | Clean each side of the window pane with glass cleaner or distilled vinegar. |

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Yearly cleaning procedure

To clean the warmer yearly, do the following.

| Step Action Make sure that the warmer is disconnected from electric power and cool. Remove the shelves and support assembly () from the interior of the warmer. Clean the support assembly and interior with a damp cloth. Clean the support assembly and interior of the warmer completely dries. Clean each side of the window pane with glass cleaner or distilled vinegar. Re-install the support assembly. WARNING: Personal injury hazard. The blankets may overheat if the shelves and support assembly are not in place. Make sure to re-install the shelves and support assembly before operating the warmer. | | |
|--|------|---|
| Remove the shelves and support assembly ① from the interior of the warmer. Image: Content of the warmer with a damp cloth. Clean the support assembly and interior with a damp cloth. Dry the interior of the warmer with a clean, lint-free cloth. Leave the door open until the interior of the warmer completely dries. Clean each side of the window pane with glass cleaner or distilled vinegar. Re-install the support assembly. WARNING: Personal injury hazard. The blankets may overheat if the shelves and support assembly before operating the shelves and support assembly and the shelves and support assembly and the shelves and support assembly | Step | Action |
| warmer. Wermer. Second State Stat | 1. | Make sure that the warmer is disconnected from electric power and cool. |
| Clean the support assembly and interior with a damp cloth. Dry the interior of the warmer with a clean, lint-free cloth. Leave the door open until the interior of the warmer completely dries. Clean each side of the window pane with glass cleaner or distilled vinegar. Re-install the support assembly. WARNING: Personal injury hazard. The blankets may overheat if the shelves and support assembly are not in place. Make sure to re-install the shelves and support assembly before operating the | 2. | |
| 4. Dry the interior of the warmer with a clean, lint-free cloth. Leave the door open until the interior of the warmer completely dries. 5. Clean each side of the window pane with glass cleaner or distilled vinegar. 6. Re-install the support assembly. WARNING: Personal injury hazard. The blankets may overheat if the shelves and support assembly are not in place. Make sure to re-install the shelves and support assembly before operating the | | |
| Leave the door open until the interior of the warmer completely dries. 5. Clean each side of the window pane with glass cleaner or distilled vinegar. 6. Re-install the support assembly. WARNING: Personal injury hazard. The blankets may overheat if the shelves and support assembly are not in place. Make sure to re-install the shelves and support assembly before operating the | 3. | Clean the support assembly and interior with a damp cloth. |
| 5. Clean each side of the window pane with glass cleaner or distilled vinegar. 6. Re-install the support assembly. WARNING: Personal injury hazard. The blankets may overheat if the shelves and support assembly are not in place. Make sure to re-install the shelves and support assembly before operating the | 4. | Dry the interior of the warmer with a clean, lint-free cloth. |
| 6. Re-install the support assembly. WARNING: Personal injury hazard. The blankets may overheat if the shelves and support assembly are not in place. Make sure to re-install the shelves and support assembly before operating the | | Leave the door open until the interior of the warmer completely dries. |
| WARNING: Personal injury hazard.The blankets may overheat if the shelves and support assembly are not in place. Make sure to re-install the shelves and support assembly before operating the | 5. | Clean each side of the window pane with glass cleaner or distilled vinegar. |
| The blankets may overheat if the shelves and support assembly are not in place. Make sure to re-install the shelves and support assembly before operating the | 6. | Re-install the support assembly. |
| | | The blankets may overheat if the shelves and support assembly are not in place. Make sure to re-install the shelves and support assembly before operating the |

Result

The warmer is now clean.

What to do if the Warmer Malfunctions

| Background | The controller sounds an alarm and the screen displays an error code when the warmer malfunctions. | | |
|------------|--|--|--|
| Procedure | Decedure If the warmer malfunctions, do the following. | | |
| | Step | Action | |
| | 1. | Rotate the Temperature Control Knob (1) to the OFF (vertical) position. | |
| | | Refer to the troubleshooting section for the error code. | |
| | 2. | Make sure the blankets are the correct temperature before using. | |
| Result | Resume operation of the warmer. | | |

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How to Manually Reset the Warmer

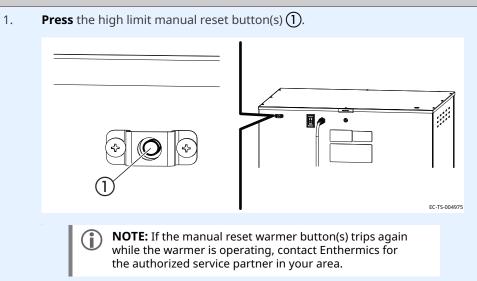
Background

In the case of overtemperature, a high limit switch will disable the heating function. The warmer can be manually reset using the high limit manual reset button(s) located at the rear of the warmer.

Procedure

To manually reset the warmer, do the following.

Step Action



Result

Resume operation of the warmer.

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Error Codes

Background

This section is provided for the assistance of qualified and trained service technicians only and is not intended for use by untrained or unauthorized service personnel. Failure to observe this precaution may void the warranty.

The following error codes apply to the control. Where noted, the following apply:

| Control Response | Description |
|--------------------|--|
| Error beep | 3 beeps every 10 seconds. Beeper can be turned off by pressing any button. Beeper turns off and the error display turns solid, the flashing stops. The alarm remains active. Reset per the table below. |
| Error flash | Approximately 0.8 seconds ON, 0.2 seconds OFF. |
| Temperature recall | For E-30 and E-31 error codes, pressing the Temperature Display button will display the temperature. For other error codes, the error code remains on the display. |

| () | NOTE: If the warmer is not operating properly, check the following before calling an authorized service agent: |
|-----------|---|
| | Verify that the power to the warmer is on. |
| | If applicable, ensure the female end of plug is securely seated in the warmer and that the male end of plug is in an appropriate, functioning outlet. |
| | If applicable, examine the fuses. Replace the fuses, refer to topic <i>How to Replace a Fuse</i> . |
| | If applicable, examine the high limit manual reset button. If the high limit manual reset button is tripped, reset the warmer, refer to topic <i>How to Manually Reset the Warmer</i> . |
| | |

NOTICE Do not attempt to repair or service the warmer beyond this point. Contact the manufacturer for the nearest authorized service agent. Repairs made by any other service agent without prior authorization by the manufacturer will void the warranty.

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| Error Display | Error Description | Error Definition Comments | Control Response | Reset |
|-----------------------|--|---|---|---|
| E-10 | Sensor 0 shorted | Sensor short determined | Control: Relays OFF Display: Flash error code Beeper: Error beep | Auto-reset when sensor short resolved |
| E-11 | Sensor 0 open | Resistance >3000 ohm (sensor not connected) | Control: Relays OFF Display: Flash error code Beeper: Error beep | Auto-reset when good probe is attached, i.e. valid reading |
| E-30 | Under Temperature | 25°F under Set Point Temperature for 90 minutes | Control: Function normal Display: Flash error code Beeper: Error beep | Auto-reset when temp rises above the Under Temp alarm condition |
| E-31 | Over Temperature | OVEN: 60°F over max temp range for that model for 3 minutes | Control: Relays OFF Display: Flash error code Beeper: Error beep | Auto-reset when within 25°F of max temp range |
| E-32 | Safety Switch Open (Aux Hi Limit Switch) | Designated models only. Aux Input open. | Control: Relays OFF Display: Flash error code Beeper: Error beep | Auto-reset when Aux Hi-Limit input closed |
| E-38 | Internal software error | Internal Software error | Control: Relays OFF Display: Flash error code Beeper: Error beep | Call Factory |
| E-39 | Sensor Error | Board level RTD temp circuit hardware error | Control: Relays OFF Display: Flash error code Beeper: Error beep | Call Factory |
| E-70 | Configuration connector error (DIP-switch) | DIP-Switch error: not set to model or invalid model | Control: Relays OFF Display: Flash error code Beeper: Error beep | Correct DIP-switch. Turn control OFF, then ON |
| E-83 | EEPROM error | Bad checksum | Control: Relays OFF Display: Flash error code Beeper: Error beep | Reset by performing CALIBRATION |
| E-90 | Key Shorted | Any key >1 min shorted | Control: Relays OFF Display: Flash error code Beeper: Error beep | Rest when key no longer shorted |
| E-91 | Input Failure | Internal Diagnostics | Control: Relays OFF Display: Flash error code Beeper: Error beep | Call Factory |
| EFAN (if equipped) | Fan Failure | Locked Fan Rotor detected. No signal on Aux 2 input | Control: Relays OFF Display: Flash error code Beeper: Error beep | Allow normal operation to resume when the locked rotor is cleared |

Warranty

| Introduction | Enthermics Medical Systems, Inc. warrants to the original purchaser only, that any original part found to be defective in material or workmanship will be replaced with a new or rebuilt part at Enthermics option, subject to provisions hereinafter stated. |
|-----------------|---|
| Warranty Period | The warranty period is as follows: |
| | For warming cabinets shipped to the United States or Canada, |
| | The labor warranty remains in effect for one (1) year from installation or fifteen (15) months from the shipping date, whichever comes first. Enthermics will bear normal labor charges performed during the standard business hours, excluding overtime, holiday rates or any additional fees. |
| | The original parts warranty remains in effect five (5) years from installation of appliance or sixty-three (63) months from the shipping date, whichever comes first. |
| | For warming cabinets shipped outside of the United States or Canada, |
| | The original parts warranty is one (1) year from the date of installation of appliance or fifteen (15) months from the shipping date, whichever comes first. |
| | To be valid, a warranty claim must be asserted during the applicable warranty period. This warranty is not transferable. |
| Exclusions | This warranty does not apply to: |
| | Calibration. |
| | Equipment damage caused by accident, shipping, improper installation or alteration. |
| | Equipment used under conditions of abuse, misuse, carelessness or abnormal conditions, including but not limited to, equipment subjected to harsh or inappropriate chemicals, including but not limited to, compounds containing chloride or quaternary salts, poor water quality, or equipment with missing or altered serial numbers. |
| | Any losses or damage resulting from malfunction, including the loss of contents or consequential or incidental damages of any kind. |
| | Equipment damage caused by use of any cleaning agents other than those recommended by Enthermics, including but not limited to damage due to chlorine or other harmful chemicals. |
| | Equipment modified in any manner from original model, substitution of parts other than factory authorized parts, unauthorized removal of any parts including legs, or unauthorized addition of any parts. |
| | Continued on next page |

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Collateral or incidental damage as a direct result of servicing equipment built into a wall structure is not covered under warranty. It is the responsibility of the owner to bear all expense related structural repairs including, but not limited to, external electrical connections and wiring, and the removal or replacement of caulk, grout, tile, or wall covering of any kind. A service access panel for built-in equipment installations is strongly recommended.

Conclusion

This warranty is exclusive and is in lieu of all other warranties, express or implied, including the implied warranties of merchantability and fitness for a particular purpose. No person except an officer of Enthermics is authorized to modify this warranty or to incur on behalf of Enthermics any other obligation or liability in connection with Enthermics equipment.





Printed in the U.S.A.

Specifications are subject to change without notice.

Enthermics Medical Systems, Inc. An ISO 13485:2016 certified company

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