



Avadim
HEALTH



Standard Content

- (1) Personal Care Warmer
- (1) Detachable Power Cable



Read Operating Instructions Thoroughly Prior to Operating Warmer.

Model PatientCare WARMER 16S

Operating Specifications

Power Source:	AC 115 (+/-10%), 60HZ, Max Watts: 250
Temperature Range:	100°F (37.7°C) minimum - 125°F maximum
Operating Temperature:	Factory preset to 125°F
Operating Environment:	Indoor use, Ambient Conditions 10°C / 50°F to 35°C / 95°F, 80% RH maximum.
Storage Temperature:	-10°C / 14°F to 70°C / 158°F, 70% RH maximum
Approvals:	Underwriter's UL / CUL, United States / Canadian for laboratory equipment.
Compliance:	UL Standard 61010-1, IEC 61010-1.

Warmer's Specifications

Exterior Dimensions:	12.875"W x 17.00"H x 13.37"D
Exterior:	Powder-coated steel
Interior:	High-grade aluminum
Capacity :	16 Theraworx Protect packages
Thermo-control:	Digital temperature controller
Indicator System:	Bi-color LEDs
Net Weight:	24.5 Lbs.
Insulation:	Silica-based fiberglass
Door:	High-optic acrylic
Heater:	Resistive-tubular incoloy
Initial heat-up time:	20 minutes (empty)
Heat-up with product:	30 - 40 minutes (with product)

Symbols

-  **WARNING**
Possible electrical shock
-  **WARNING**
Fire risk
-  **IMPORTANT**
Usage guidelines

Safety Precautions

Read Operating Instructions Thoroughly Prior to Operating Warmer.

Before powering the warmer on, remove all packing materials and examine the warmer for any damage (broken door handles, missing door magnets, or dents). Notify your Theraworx representative if the warmer is damaged.

This warmer heats Theraworx wipes to a patient-safe temperature and uses a system of safeguards to protect against an over-temperature condition. When using Theraworx wipes from the warmer:

- Read the product package for the proper use of wipes and other important information.
- Closely monitor product heat levels with infants, unresponsive, or skin-sensitivity patients.
 - Remember that gloves diminish heat sensitivity.
- **ONLY** use Theraworx Protect wipes in the warmer.

Set-Up & Installation

When setting up the warmer:

- Choose a location out of direct sunlight and harsh incandescent lighting.
- Maintain a minimum of 3" of airspace on the back and side walls.
- DO NOT obstruct side wall air vents.

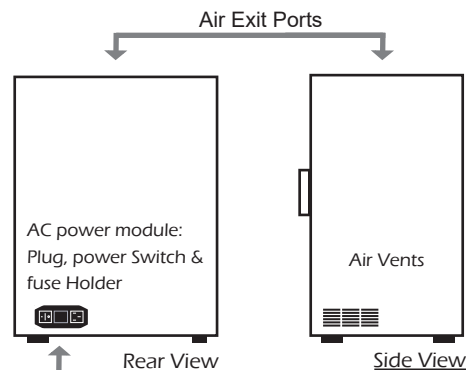
Do not operate the warmer in close proximity to any flammable solvents, gases or materials.

Power cord installation:

- Inspect the power cord for any signs of visible damage or wear.
- Insert the female end of the power cord into the AC power module.
- Plug the power cord into an AC power outlet that meets the power requirements specified on the label on the back of the warmer.

Use only a grounded outlet that is rated for your warmer's electrical requirement. Improper use of the grounding plug can result in an electric shock.

DO NOT modify the provided plug. DO NOT use an extension cord.



The power module contains the warmer's fuses, and two spare fuses.

For electrical requirements refer to the label in the back of the warmer.

General Operation

The warmer is ready for immediate use, with all control parameters, calibration, and tuning completed at the factory. **No adjustments are necessary.**

Power ON operation:

Press the power switch located at the back of the warmer to power the warmer on. Upon startup, the LED's on the sensor upright will illuminate, first red then green and self-test until the chamber temperature is displayed on the controller.

Temperature set-point and temperature units:

The warmer heats to its factory preset temperature of 125°F. This factory-set temperature is considered 'optimum' for all Theraworx wipes products but can be adjusted within a predetermined range between 100°F and 125°F. Additionally, the temperature units can be changed to read in degrees Celsius. (Refer to Controller Functions on page 4).

During use, adding and retrieving products will typically cause a temporary decrease in the temperature displayed on the controller.

Safety Alarms Reset

Electronic over-temperature alarm

If the warmer exceeds its maximum allowable temperature, an internal safety "pre-set" alarm on the controller will cut off power to the heat element and the controller will display -ALM- until the alarm is manually reset.

To reset:

1. Power the warmer OFF and allow the warmer to cool to room temperature.
2. Open the door to cool the warmer faster.
3. Power the warmer ON and verify the alarm indicator has cleared.

If the alarm condition persists, contact technical support for assistance.

Indicates alarm condition



Safety Alarms Reset (continued)

Thermal safety alarm - Snap Disc.

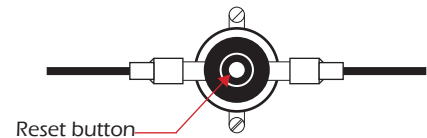
To protect the warmer's electrical components and for the safety of the user, if the unit exceeds its maximum temperature, an internal safety snap disc will cut power OFF to the warmer until it is manually reset.

To reset:

1. Unplug the warmer from its power source.
2. Lay the unit on its back and remove the bottom plate.
3. Locate the round snap disc and push on the button to reset.
4. Reassemble.



If the alarm condition persists contact technical support for assistance.



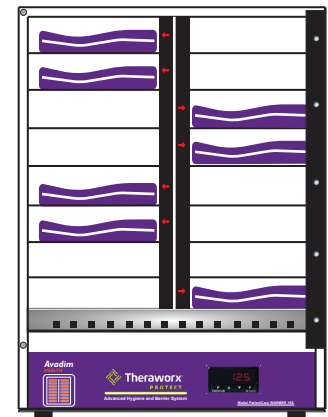
Thermo Fuse (Snap Disc)

Product Loading and Retrieval

Each product slot is equipped with a status-indicating, bi-color LED light on the sensor housing beside the slot. These lights serve to indicate both 'product-ready' status and when the product should be discarded.

Stocking and placement of products:

- Open the door of the warmer and fill each slot with Theraworx wipes product in any combination.
- Use only one product per slot.
- Place the product on the shelves so that they do not interfere with the closing of the door.
- Load all products so the peel label is to the top.
- Wipes product should be placed near the sensor column until red indicator LED lights up. *If the wipe product fails to activate the proximity sensor, move product slightly closer to the sensor until it activates the LED indicator light.*

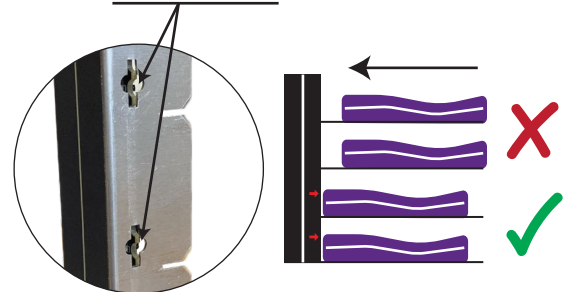


Stock wipe product in any combination

Product Retrieval:

The wipes take approximately **90 minutes** to warm after being inserted. Once the product is warm and is ready for use, the indicator light will turn green. Open the door and retrieve the product from the slot. The indicator light turns off for that specific slot, indicating readiness for the next wipe product to be inserted.

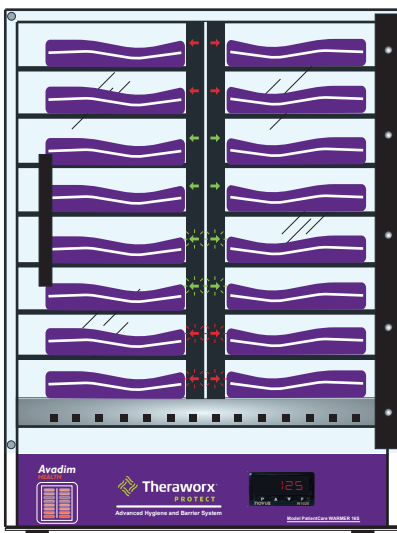
Activate proximity sensors by placing product near column



Product Loading Tips:

For best product quality, load only enough wipes products to care for the current patient census or scheduled baths over a three to four day period.

Indicator Sensor Status



Heating - Solid red LED.

When wipe product is inserted, the status indicator LED will illuminate **SOLID RED**. This indicates the wipes are being warmed to the desired temperature. The time to fully heat product will be approximately 90 minutes.

At temperature - Solid green LED.

When wipe product is fully heated, the status indicator light will illuminate **SOLID GREEN**. This indicates the wipes in the slot are ready for use.

Use first - Flashing green LED.

When the slot indicator is **FLASHING GREEN**, this indicates the product should be used first, as it has been in the warmer in excess of 84 hours.

Discard - Flashing red LED.

When any wipe product has been inserted for more than 168 hours, the status indicators will begin **FLASHING RED**. This indicates the product has been inserted in the warmer for more than 168 hours and should be discarded.

Controller Functions

The warmer's controller allows you to set and adjust the operating temperature between 100°F and 125°F. It also allows you to change to the temperature units to read either °C or °F. These are the *only* two settings that can be changed by the user. Other controller menus and settings are visible, but for safety and operational purposes should not be changed.



CONTROLLER KEY DESCRIPTION

- P** Menu/Advance - Use to advance to successive parameter or menu
- ▲** Increase - Use key to increase the parameters value.
- ▼** Decrease - Use key to decrease the parameters value.
- F** Special Function - Use key to return and exit.

OPERATION INDICATORS

AT Indicator

ON- Indicates active auto-tune process.
(No tuning is necessary for Avadim warmers).

OUT

ON- Indicates normal activation of outputs.
FLASHING - Indicates normal operation

RUN

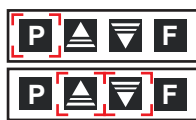
ON - Control is enable to run.
(This light remains ON during normal use)

ALM

ON - Indicates an alarm condition when the process value is above the defined alarm value for the warmer.

To change temperature set-point

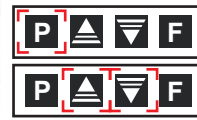
Factory default 125°F



Press **P** once to see **SP**
Press **▲** or **▼** to Increase / Decrease

To change temperature unit (°C or °F)

Factory default °F



Press **P** once to see **UNIT**
Press **▲** or **▼** to select between °F or °C

To exit after making a change, continue to press **P** until you see the warmer's temperature (process value) on the controller's display.

Warmer Maintenance

Periodic cleaning is the only required maintenance for the warmer.

 **Disconnect the power cord before cleaning.**

Exterior Cleaning

Clean the interior and exterior surfaces with a soft damp cloth. Avoid excessive amounts of water that could drip into the lower plenum. Use a mild detergent or cleaner if necessary.

Door Cleaning

The door should only be cleaned using a lint-free cloth. Paper towels can mar the surface of the door. **DO NOT** use any commercial or alcohol-based cleansers on the door. This will cause cracking of the acrylic over time.

Common Troubleshooting

Warmer does not power ON

1. Verify the power cord is in the back of the warmer securely connected.
2. Verify the power outlet the warmer is connected to has not tripped a GFCI or breaker.
3. Reset snap disc - See **Safety Alarms Reset** on page 3. If problem persists, contact technical support.

Warmer is not heating

1. Verify the warmer's set-point is set between 100° and 125°F. If it is outside of this range call technical support for assistance.
2. Verify the warmer is not in an alarm condition - See **Electronic over-temperature alarm** on page 2 to clear alarm condition. If problem persists, contact technical support.

Technical Support

For questions regarding:



General Product Information, please contact:

Avadim Health 1-877-677-2723



Technical Support/Parts Order, please contact:

Quincy Lab. 1-800-482-4328