



mother's milk,
everyday amazing™

Medela Waterless Milk Warmer™

Maintenance & Technical Guide



Read all instructions for use
before using this product.

neonatal
solutions

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1. Replacement Parts & Intended Use

Item order numbers*:

1. Warmer Inserts	87116-100
2. Waterless Milk Warmer IV Pole Adapter	5007005
3. Waterless Milk Warmer Power Cord	9287013

Call for pricing

*Inserts and IV Pole Adapters are sold separately.

Intended use

- To warm breast milk or supplement for hospital patients without the use of water.
- To thaw breast milk or supplement from a completely frozen state for hospital patients without the use of water.

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.



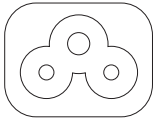
3. Technical Description



Safety Instructions



Caution Hot Surface



Power Supply

Inlet	IEC C6
V~	100-240
Hz	50/60
A	2.5

Disposal:

The Medela Waterless Milk Warmer is made of technical plastics and metals that cannot be separated. It must be disposed of in accordance with local regulations.

Dimensions:

Width:	7.6 inches
Height:	9.6 inches
Depth:	9.3 inches

Weight (without packing materials):
4.2 lb

IV Pole Bracket (sold separately):

- Quick release spring plunger.
- Mounts to either side of unit to provide mounting flexibility.
- Does not interfere with countertop use of warmer if left attached.



Environmental Conditions for Operation:

Temperature: +15 °C to +30 °C (+59 °F to +86 °F)

Relative Humidity: 20% to 80%

Atmospheric Pressure: 70 kPa to 106 kPa

Environmental Conditions Transport and Storage:

Temperature: -20 °C to +50 °C (-4 °F to +122 °F)

Relative Humidity: 20% to 95%

Atmospheric Pressure: 70 kPa to 106 kPa

Standards & Regulations:

ISO 13485

FDA (QSR)

UL/CSA 61010-1

FCC 47 CFR Part 15

Electromagnetic or other Interference:

Complies with IEC 61326-1. Unlikely to interfere with other electrical equipment.

4. Important Safeguards

READ ALL INSTRUCTIONS BEFORE USING THIS PRODUCT

When using electrical devices, basic safety precautions should always be followed, including the following:

The warning symbol identifies all instructions that are important to safety. Failure to observe these instructions can lead to injury or damage to the warmer. When used in conjunction with the following words, the warning symbols stand for:



Warning

Can lead to serious injury or death.



Info

Useful or important information that is not related to safety.



Caution

Can lead to minor injury.

DANGER: To reduce the risk of electrocution:

1. Always unplug electrical devices immediately after using. Separation from the power is only assured by removing the plug from the wall socket outlet.
2. Do not use while bathing or showering.
3. Do not place in or drop unit into water or other liquid.
4. Do not reach for any electrical device if it has fallen into water. Unplug immediately from electrical outlet.
5. Do not store or use this product where it can fall or be pulled into a tub or sink.
6. Always use an outlet with proper protective earthing.

4. Important Safeguards (cont)



WARNING: To avoid fire, electrocution, or serious burns:

1. The warmer should never be left unattended when plugged into an electric outlet.
2. Use the warmer only for its intended use as described in this manual.
3. Do not use accessories attachments not recommended by the manufacturer, as this may create hazardous conditions.
4. Never operate an electrical device if it has a damaged cord or plug, if it is not working properly, if it has been dropped or damaged, or if it has been dropped into water.
5. Keep the cord and all components away from heated surfaces.
6. While cleaning, warmer should be turned off and unplugged.
7. Supervision is necessary when this product is used in the vicinity of children.
8. Make sure the voltage of the device is compatible with the power source.
9. Operate warmer only with the warmer in an upright position.
10. There are no user-serviceable parts inside the Medela Waterless Milk Warmer.
DO NOT ATTEMPT TO REPAIR THE WARMER YOURSELF.
11. ALWAYS FEEL CONTAINER/SYRINGE & CHECK MILK TEMPERATURE BEFORE FEEDING.
12. To prevent damage to the unit or injury, do not lift or carry unit by its lid.
13. Do not use outdoors.
14. Do not warm breast milk storage bags.
15. Use caution when warming milk in containers and/or with lids that contain metal.
16. Do not warm milk with nipple on container.
17. Only use the power cord that comes with the Medela Waterless Milk Warmer™.

4. Important Safeguards (cont)

⚠ WARNING: To avoid health risk and reduce the risk of injury:

1. The Medela Disposable Inserts for the warmer are single patient use care items. To prevent cross contamination do not share inserts between patients.
2. The warmer should be cleaned between patient use or as needed. See care cleaning section for approved cleaning agents. Do not spray or pour liquid onto the warmer.
3. Do not use while sleeping or overly drowsy.
4. As with any IV pole mounted device, do not overload IV pole with excess equipment that may cause a tipping hazard.
5. Do not place warmer on IV pole at a height over 5 feet to minimize the potential for tipping during operation.

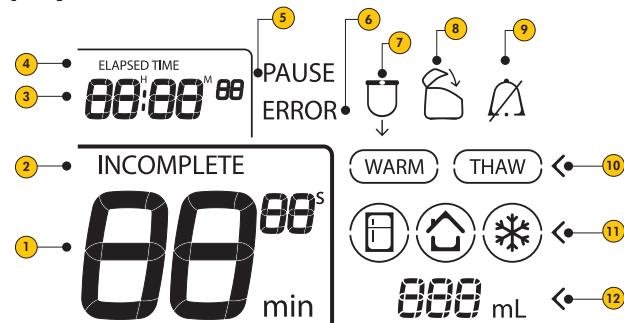
⚠ CAUTION: Can lead to minor injury.

1. Do not place warmer on a soft surface.
2. Make sure the warmer doesn't interfere with any other equipment on IV pole.
3. The Waterless Milk Warmer should be cleaned prior to first use.
4. Warming small amounts of breast milk or supplement in large containers can reduce warming efficiency.

5. Controls & LCD

1. Completion Time
2. Completion Indicator appears when warm or thaw mode is complete or interrupted
3. Elapsed Time
4. Elapsed Time Label
5. Pause Indicator
6. Error Indicator
7. Insert Liner Symbol
8. Lid Open Symbol
9. Alarm Mute Symbol
10. Mode
11. Milk Temperature
12. Volume amount in mL

LCD display



WARM Warming mode

THAW Thawing mode

Refrigerated start temperature

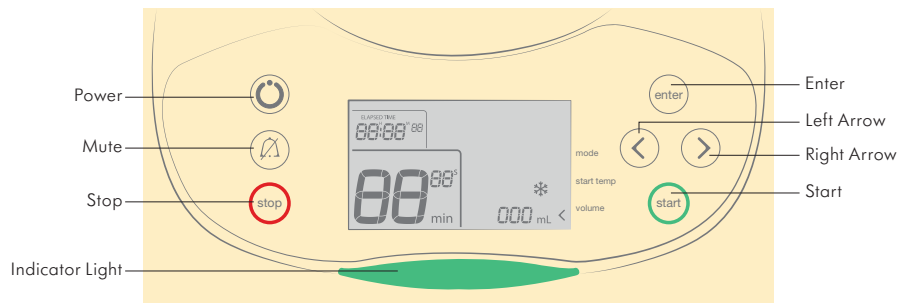
Room start temperature

Frozen start temperature

5. Controls & LCD (cont)

Program Warmer

1. Plug the 3-prong hospital-grade plug into a wall outlet.
2. Press the power button on the warmer panel.
3. Note the volume of milk to be warmed.
4. The warmer features both a visual indicator located on the front of the unit and a low volume audible indicator. To mute the audible indicator, press the  mute button. To confirm that the audible indicator is muted, the symbol  will appear in the upper right portion of the LCD Display.

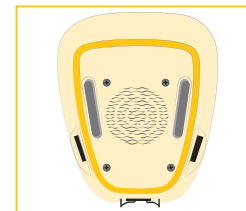


6. Assembly & Set-Up

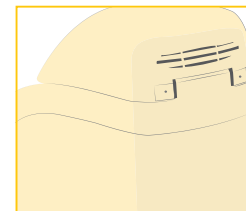
1. Remove warmer from shipping container. Allow unit to reach room temperature before use.
2. Review instructions prior to assembly.
3. Connect the power cord (provided with the warmer) into the socket located on the back of the unit.
4. Push the wire cord retainer (located around the warmer power socket) down over the plug until secure.

Placement on Counter or Hard Surface

1. Make sure that surface is clean and dry.
2. Place the warmer on a solid surface. Ensure the surface is secure to avoid the warmer from tipping or falling
3. Place the warmer on a surface low enough for staff to see into the warmer cavity.
4. Do **NOT** block vents on the back of warmer. Do **NOT** place on a soft surface to avoid blocking the bottom vent on the warmer.



Bottom



Rear

Info

- For ideal sound pressure level, the recommended placement location is 1 meter or greater from the patient.

7. Inspection

A visual and functional check of the Waterless Milk Warmer™ should be performed on a periodic basis for optimal performance. If maintenance or repairs are needed, this guide will walk you through the steps. Please contact Medela Customer Service with any questions at 1-888-633-3528.

Inspection steps:

- **Housing:**

Inspect housing for damage. If housing is damaged contact Medela for repairs.

- **Hinge:**

Lid should open and hold itself upright for access to inner chamber. If lid fails to stay open contact Medela for repairs. Note: Grease is normal on metal hinge parts, do not remove it or it will shorten the life of the hinge.

- **Screw cover plugs:**

4 rubber screw cover plugs should be installed on the underside of the lid. If any are missing or damaged contact Medela Customer Service.

- **Power cord:**

Inspect power cord for damage to plug, damage to insulation, and missing or bent prongs. If the cord is damaged, contact Medela for replacement part #9287013.

- **Control panel membrane:**

Inspect buttons for tears, cuts, and legibility. If control panel is damaged, contact Medela for repairs.

- **LCD display:**

Inspect LCD for proper backlight and symbol illumination. If LCD is damaged or showing excessive bleed, spotting, or fading, contact Medela for repairs.

8. Test Procedure

The Waterless Milk Warmer continually performs background self-diagnostic checks during normal operation to ensure the warmer is functioning as intended. However, the following test procedure outlines steps to verify that the warmer is functional.

1. Place warmer in a room with adequate ventilation and an ambient temperature of 18-25 °C (64-77 °F).
2. Ensure warmer vent (located on back side of warmer) is not blocked and that the warmer is not immediately adjacent to other heat generating equipment.
3. Plug in the warmer.
4. Conduct insert and lid detection test:
 - a. Open lid to upright position and remove all items from inside warmer, including the insert. Lid must remain open for duration of this test.
 - b. Ensure inside of warmer is clean and free of debris.
 - c. Turn power on by pressing the Power button.
 - d. Select "Warm" Operation by pressing the Enter button.
 - e. Select "From Refrigerated" operation by pressing the Enter button.
 - f. Enter "1 mL" by pressing the Right Arrow key until the display indicates "001 mL".
 - g. Select the "1 mL" setting by pressing the Enter button.
 - h. Start the unit by pressing the Start button.
 - i. Verify that the unit says "error" and that the "Install Insert" and the "Close Lid" indicators are flashing as shown in **Figure 1**.
5. Verify warming function with Omega Engineering temperature sensing labels and one (1) disposable insert.
 - a. Place insert into warmer. Thoroughly spread the insert against the inside of the warmer so that the insert does not bunch inward.

8. Test Procedure (cont)

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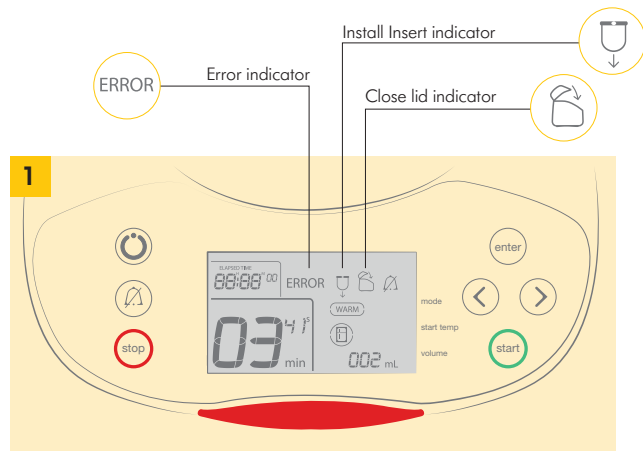
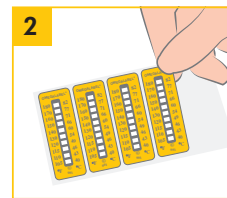


Figure 1. Error icons

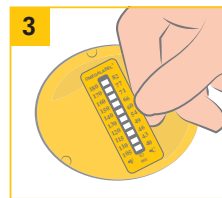
- b. Remove self-adhesive temperature sensing label from the backing and apply to the center of the insert disc as shown in **Figure 2 & 3**.
- c. Place the disc inside the insert ensuring that the insert remains smooth against the walls of the warmer as shown in **Figures 4 & 5**. Do not place bottles, syringes etc. in the warmer during test.
- d. Close lid.
- e. Select "Warm Operation" by pressing the Enter button.
- f. Select "From Refrigerated" operation by pressing the Enter button.
- g. Enter "250 mL" by pressing the Right Arrow button until the display indicates "250 mL".
- h. Select the "250 mL" setting by pressing the Enter button.
- i. Start the unit by pressing the Start button.

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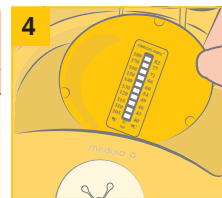
- j. Allow the warmer to complete the full cycle as indicated by an indicator chime and a flashing green indicator light.
- k. Open lid.
- l. Remove disc.
- m. Verify that no error codes were generated during the test. If error codes were generated, refer to the troubleshooting guide on pages 17 & 18.
- n. Compare the temperature label results to those shown in **Figures 6, 7, 8 & 9** on page 14.
 - In the event that the label indicates a result of "insert installed incorrectly," as shown in **Figure 7**, repeat the test starting from step 5, taking care to spread the liner carefully against the housing. In the event of a second failure, the warmer is not warming adequately. Contact Medela Customer Service for support at 1-888-633-3528.
 - In the event that the temperature label results are equivalent to **Figures 8 or 9**, contact Medela Customer Service for support at 1-888-633-3528.
- o. Verify that no error codes were generated during the test.



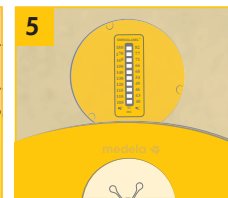
**Figure 2.
Label removal**



**Figure 3.
Label Placement**



**Figure 4.
Disc Placement**



**Figure 5.
Disc Placement
within Warmer**

8. Test Procedure (cont)

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Figure 6.
Warmer operating
correctly.

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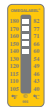


Figure 7.
Insert installed
incorrectly.

8



Figure 8.
Warmer has
excessive
temperatures.

9



Figure 9.
Warmer not
warming
adequately.

Info

- Temperature sensing labels should be procured directly from Omega Engineering in quantities of 10 under Part Number TL-8-105-10 or in quantities of 30 under part number TL-8-105-30. <http://www.omega.com/pptst/tl-8.html>
- If labels are exposed to temperatures exceeding 105 °F/40 °C during shipment, the indicators will change permanently. Do not employ these labels for testing. They should be returned to the vendor or discarded.
- Labels can be easily removed from the insert disc and can be retained with documentation to indicate results, as long as documentation is not subjected to temperatures exceeding the results.

9. Care & Cleaning

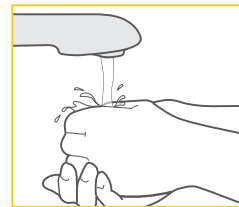
Caution

- The Waterless Milk Warmer™ should be cleaned prior to first use.

Hygiene

Wash hands before operating the warmer, opening inserts, and/or installing inserts.

- Check with the manufacturer prior to using any cleaning or decontamination method outside of manufacturer's recommendations.
- Do NOT submerge, autoclave, heat, steam, ETO, or radiation sterilize the warmer.
- Grease on metal hinge may be visible and is considered normal. DO NOT remove grease as it may shorten the life of the hinge.



Equipment user has the responsibility for carrying out appropriate decontamination if hazardous material is spilled on or inside the equipment.

Info

- These recommendations are not substitutes for official hospital procedures that may differ among institutions. Refer to hospital policy for cleaning of shared capital equipment.

Acceptable cleaning agents*

- Cavicide® cleaner and/or wipes
- PDI® Sani-cloth® cleaner and/or wipes
- Isopropyl alcohol
- Hydrogen Peroxide 3% liquid or wipes
- Soap and water

*Not responsible for formula changes by disinfectant wipe manufacturers.

9. Care & Cleaning (cont)

Single/Multiple Patient Use

Caution

- Disposable Inserts are a single-patient and limited use item. Use of the warmer by more than one user without proper cleaning may pose a health risk. Inserts are single-patient, limited use items. Use of inserts for more than one patient may pose a health risk.

Disposable Insert Care

Medela recommends changing inserts every 12 hours.

1. Remove and discard the Disposable Insert if patient identified on label no longer requires feed warming.
2. Inspect the Disposable Insert after each warming and/or thawing session for condensation and/or milk.
3. Inspect the disposable insert for visible damage (rips or tears). If insert is damaged immediately discard and replace to avoid milk coming in contact with the warmer.

Milk Present in Disposable Insert

1. Discard insert immediately.
2. Install a new insert prior to next use.

Condensation Present in Disposable Insert

1. Leave the lid to the warmer open to allow the insert to air dry in between uses.

Info

- Condensation may appear in the insert when a frozen bottle is frosted on the outside and thawed in the warmer.

Caution

- Inserts are single-patient use.
- Check with the manufacturer prior to using any cleaning method outside of the manufacturer's recommendations (refer to "Acceptable Cleaning Agents" on page 15).

Warmer Care

1. Wipe down the warmer according to cleaning instructions on page 14 prior to first use and in between patients.
2. Wash hands before touching the surface of the warmer and operating the device.
3. If the warmer is used for more than one patient, inserts should stay with the patient in a clean location with clear and legible indicators of patient name, date and time.
4. Refer to hospital policies for cleaning of shared capital equipment.

Milk Present in Warmer

1. Remove and discard the insert. Clean the warmer per instructions on page 15.
2. Refer to hospital policy for equipment decontamination for potential cleaning procedures unique to your facility.

Condensation Present in Warmer

1. Leave the lid to the warmer open to allow the insert to air dry in between uses.

Info

- Condensation may appear in the warmer when a frozen bottle is frosted on the outside and thawed in the warmer.

10. Troubleshooting

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Problem	Indicators
Light indicator is flashing red	Error indicator & Insert Indicator on LCD panel are illuminated
Light indicator is flashing red	Error indicator & close lid indicator on the LCD panel is illuminated
Unit will not power up	
IV pole clamp slips out of the warmer after installed into the pole mount slot on the side of the warmer	
Milk too warm	Hot to the touch
Milk too cool	
Thawed milk has no ice	
Cannot resume from pause mode	"Pause" indicator
Unexpected pause mode during operation	"Pause" indicator
Light indicator is flashing red	Error indicator & error code in the lower left section of the LCD panel where the large timer would be
	Error Code: 01-08, 11, 12
	Error Code: 09
	Error Code: 13
	Error Code: 14

If in the US, call Medela at 888-633-3528 or 815-363-1166.

In Canada, call Medela at 800-435-8316 or 905-608-7272.

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Possible Solution

Ensure insert is installed. Open the lid to the warmer and properly install the insert. Press start. Refer to the Insert Installation section in the Waterless Milk Warmer Instructions for Use, item #1908114.

Close the lid and press start.

Check to see if plug in the back of the warmer is pushed completely in. Unplug the device from the wall outlet and try another outlet.

Make sure that the IV pole adapter pin is engaged prior to installation and snaps into place when the adapter is slid into the pole mount slot.

Allow milk to cool before feeding. Ensure proper settings are used. Note: High temperatures may damage some active immunological properties of breast milk.

- Ensure the insert is installed properly. Refer to Insert Installation section in the Waterless Milk Warmer Instructions for Use, item #1908114.
- Use the proper size container in comparison to the volume of breast milk or supplement being warmed. Refer to Warming and Thawing in a Container section in the Waterless Milk Warmer Instructions for Use, item #1908114.
- Place milk back into the unit within 60 seconds and press start to continue warming. Do not initiate another warming cycle.
- Place milk back into unit within 60 seconds and press start to continue warming. Do not initiate another warming cycle.

Ensure proper settings are used. Retrieve milk promptly when thawing cycle is complete.

Ensure lid is closed and insert is fully seated.

Ensure insert is fully seated. If unit is near an intense infrared emitting light source such as sunlight or heat lamps, move to another location.

Hold power button for at least 4 seconds or unplug the device, wait ten seconds, plug the device back into the wall, and press the power button. Contact Medela Customer Service if these steps do not resolve the issue.

Return for service.

Ensure fan is not blocked.

Turn off and unplug warmer, allow unit to cool down for up to 30 minutes. Warmer should resume operation. If Error Code 13 is frequently generated, contact Medela Customer Service.

Ensure unit is in an area with adequate room temperature ventilation. Ensure vents on bottom and rear of unit are not blocked.

11. Warranty

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This product is warranted by Medela LLC to the original purchaser to be free from defects in material and workmanship for the period of three (3) years from the date of purchase. In the event of a defect or failure to conform to this warranty, Medela will, at Medela's sole discretion, repair or replace this product without charge for such replacement, on parts or labor, with rebuilt, reconditioned, refurbished or new parts at the Medela office listed below. The Purchaser shall bear all responsibility and expense for returning this product to Medela, including risk of loss prior to receipt by Medela, and shipping, packing, and insurance costs.

Medela will have no obligation under this warranty to repair any malfunction or damage arising from any misuse, abuse, or alteration of this product. Without limiting the generality of the foregoing, bending, or dropping of this product or its components, visible cracking of the equipment housing will be presumed to be defects resulting from misuse or abuse. Accessories that are not expressly manufactured by Medela and subsequently attached to the equipment will immediately void this warranty.

ANY AND ALL IMPLIED WARRANTIES ARE LIMITED TO THE DURATION OF THREE YEARS FROM DATE OF PURCHASE. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATIONS MAY NOT APPLY TO YOU.

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THE LIABILITY OF MEDELA FOR BREACH OF ANY WRITTEN OR IMPLIED WARRANTY IS LIMITED TO REPAIR OR REPLACEMENT OF THIS PRODUCT, AND MEDELA WILL HAVE NO LIABILITY UNDER ANY CIRCUMSTANCES FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

If you wish to make a claim under this warranty, you must return this product to Medela at the address below. You must contact Medela Customer Service and obtain a Return to Merchant Authorization (RMA) Number and reference the number on your return package. The original Invoice Number or Purchase Order Number must be referenced on the RMA. Customer Service toll free number: 1-888-633-3528.

Medela LLC – Returns, Door 4501
1101 Corporate Dr.
McHenry, IL 60050
ATTENTION: RETURNS



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