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› Tuttnauer 3870M Large Capacity Manual Autoclave User Manual

## Tuttnauer 3870M

# Tuttnauer 3870M Large Capacity Manual Autoclave User Manual

Model: 3870M

## INTRODUCTION

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This manual provides essential information for the safe and efficient operation, installation, and maintenance of the Tuttnauer 3870M Large Capacity Manual Autoclave. The Tuttnauer 3870M is designed for sterilizing medical and laboratory instruments and materials. It features a 15-inch by 30-inch chamber, accommodating longer instruments or a large number of small instruments, with capacity for 15 full-size IMS cassettes. An autoclave stand is included with the unit.

## SAFETY INFORMATION

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Always read and understand all safety instructions before operating the autoclave. Failure to do so may result in injury or damage to the equipment.

- Ensure the autoclave is installed on a stable, level surface capable of supporting its weight.
- Use only distilled or deionized water to prevent mineral buildup and ensure proper operation.
- Do not open the chamber door until the pressure has fully dissipated and the temperature has dropped to a safe level.
- Wear appropriate personal protective equipment (PPE), such as heat-resistant gloves and eye protection, when handling hot items or operating the autoclave.
- Regularly inspect the door gasket and safety valves for wear or damage.
- Disconnect the power supply before performing any maintenance or cleaning.
- Do not overload the chamber. Allow adequate space for steam circulation.

## PRODUCT OVERVIEW

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The Tuttnauer 3870M Autoclave is a robust sterilization unit designed for professional use. Key components include:

- **Control Panel:** Features pressure gauge, timer, temperature controls, and cycle indicators.
- **Sterilization Chamber:** A large, electro-polished chamber designed for durability and efficient steam distribution.
- **Door and Locking Mechanism:** Ensures a secure, pressure-tight seal during operation.

- **Water Reservoir:** Holds the water used for steam generation.
- **Safety Valve:** Releases excess pressure to prevent over-pressurization.
- **Drain Valve:** For emptying the water reservoir.
- **Trays and Stand:** Includes a 3-shelf stand for convenient placement and organization of items within the chamber.

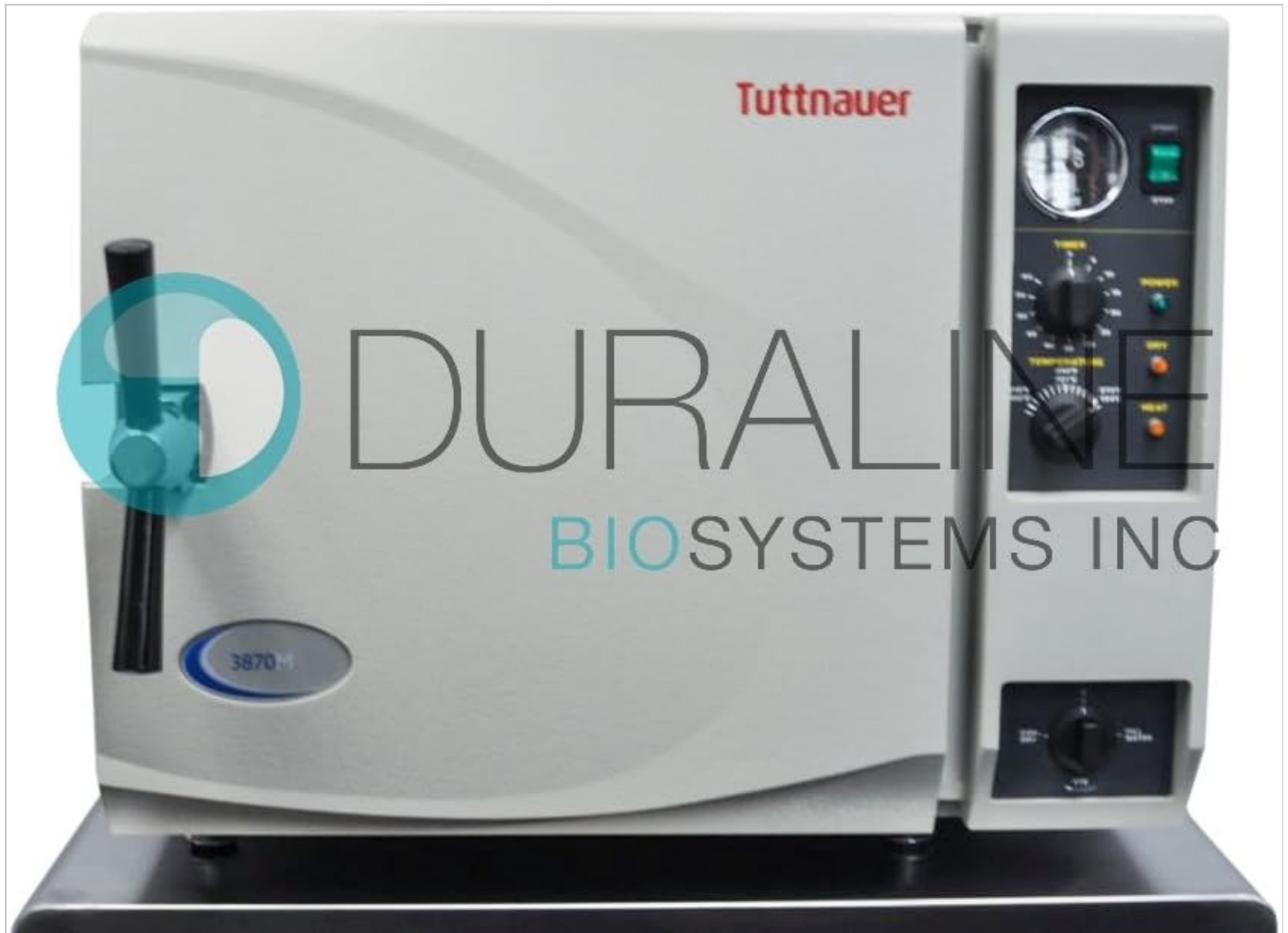


Figure 1: Front view of the Tuttnauer 3870M Autoclave, showing the control panel, pressure gauge, and door handle.



Figure 2: Interior view of the Tuttnauer 3870M Autoclave chamber, showcasing the electro-polished finish, removable shelves, and the door gasket.

## SETUP

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1. **Unpacking:** Carefully remove the autoclave and all accessories from the packaging. Inspect for any shipping damage.
2. **Placement:** Position the autoclave on a sturdy, level surface. Ensure adequate clearance around the unit for ventilation and maintenance access. The included 3-shelf stand measures 26 inches wide x 33 inches deep x 34 inches high and should be assembled and placed appropriately.
3. **Power Connection:** Connect the autoclave to a grounded electrical outlet with the correct voltage and current rating as specified in the technical specifications.
4. **Water Filling:** Open the chamber door and fill the water reservoir with distilled or deionized water. Do not use tap water. Fill to the indicated maximum level.
5. **Initial Cleaning:** Before first use, perform a cleaning cycle without instruments to remove any manufacturing residues. Refer to the "Maintenance" section for cleaning instructions.

## OPERATING INSTRUCTIONS

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Follow these steps for a typical sterilization cycle:

1. **Prepare Instruments:** Clean and package instruments according to standard sterilization protocols. Place them on the trays, ensuring they do not touch the chamber walls and allow for steam circulation. The chamber accommodates 15 full-size IMS cassettes.
2. **Load Chamber:** Carefully place the loaded trays into the sterilization chamber.
3. **Close Door:** Close the chamber door firmly and engage the locking mechanism. Ensure a tight seal.

- 4. **Fill Water:** Verify the water level in the reservoir is adequate. Add distilled water if necessary.
- 5. **Select Cycle:** Set the desired sterilization temperature and time using the control panel. Common settings are 121°C (250°F) for 15-30 minutes or 134°C (273°F) for 4-10 minutes, depending on the load.
- 6. **Start Cycle:** Press the START button. The autoclave will begin heating and generating steam. The pressure gauge will indicate the rising pressure.
- 7. **Sterilization Phase:** Once the set temperature and pressure are reached, the timer will begin counting down the sterilization period.
- 8. **Drying Phase (if applicable):** The unit features automatic shut off at the end of both the sterilization and dry cycles. After the sterilization phase, the autoclave will enter a drying phase to remove moisture from the instruments.
- 9. **Cycle Completion:** The autoclave will automatically shut off at the end of the cycle. Allow the pressure to return to zero and the temperature to cool before opening the door.
- 10. **Unload:** Carefully open the door, standing clear of any residual steam. Use heat-resistant gloves to remove the sterilized items.

## MAINTENANCE

Regular maintenance ensures the longevity and proper functioning of your autoclave.

- **Daily:**
  - Wipe down the exterior with a damp cloth.
  - Check water level and replenish with distilled water.
- **Weekly:**
  - Clean the chamber interior and trays with a non-abrasive cleaner designed for autoclaves.
  - Inspect the door gasket for cracks or wear. Clean the gasket and door rim.
  - Drain and refill the water reservoir to prevent buildup.
- **Monthly:**
  - Clean the safety valve and pressure release valve according to manufacturer guidelines.
  - Check and clean the water sensor.
- **Annual:**
  - Have a qualified technician perform a comprehensive inspection and calibration.
  - Replace the door gasket if signs of wear are present.

*Note: Always refer to the detailed maintenance schedule provided by Tuttnauer for specific procedures and recommended intervals.*

## TROUBLESHOOTING

This section addresses common issues you might encounter with your Tuttnauer 3870M Autoclave.

| Problem                   | Possible Cause                                     | Solution                                                                                                 |
|---------------------------|----------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| Autoclave not heating up. | No power, faulty heating element, low water level. | Check power connection. Ensure water level is adequate. Contact service if heating element is suspected. |

| Problem                          | Possible Cause                                                     | Solution                                                                                                                 |
|----------------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Pressure not building.           | Door not sealed properly, worn door gasket, insufficient water.    | Ensure door is fully closed and locked. Inspect and clean/replace door gasket. Check water level.                        |
| Steam leaking from door.         | Damaged or dirty door gasket, improper door closure.               | Clean or replace door gasket. Ensure door is closed and locked correctly.                                                |
| Instruments not dry after cycle. | Overloading chamber, insufficient drying time, clogged air filter. | Reduce load size. Increase drying time. Clean or replace air filter.                                                     |
| Error code displayed.            | Specific system malfunction.                                       | Refer to the full service manual for specific error code definitions and solutions. Contact technical support if needed. |

## SPECIFICATIONS

| Feature                   | Detail                                                             |
|---------------------------|--------------------------------------------------------------------|
| Model                     | Tuttnauer 3870M                                                    |
| Chamber Dimensions        | 15 inches (diameter) x 30 inches (depth)                           |
| Capacity                  | Accommodates 15 full-size IMS cassettes                            |
| Operation                 | Manual                                                             |
| Shut-off                  | Automatic shut off at the end of both sterilization and dry cycles |
| Chamber Material          | Electro-polished                                                   |
| Included Stand Dimensions | 26 inches (width) x 33 inches (depth) x 34 inches (height)         |
| Certifications            | International certifications                                       |
| Manufacturer              | Tuttnauer                                                          |
| ASIN                      | B009R50WOS                                                         |

## WARRANTY AND SUPPORT

The Tuttnauer 3870M Autoclave comes with a **12-month parts warranty**. For technical support, service, or warranty claims, please contact Tuttnauer customer service or your authorized distributor. Ensure you have your model number (3870M) and ASIN (B009R50WOS) ready when contacting support.

*Legal Disclaimer: Statements regarding dietary supplements have not been evaluated by the FDA and are not intended to diagnose, treat, cure, or prevent any disease or health condition. This product is intended for professional sterilization purposes.*

## ASK A QUESTION ABOUT THIS MANUAL

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