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## Mxmoonfree JZ-N05A

# Mxmoonfree 12L Portable Steam Autoclave Instruction Manual

Model: JZ-N05A

## INTRODUCTION

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This manual provides essential instructions for the safe and effective operation, maintenance, and troubleshooting of your Mxmoonfree 12L Portable Steam Autoclave. Please read this manual thoroughly before using the device to ensure proper function and to prevent injury or damage.



**Figure 1:** Mxmoonfree 12L Portable Steam Autoclave. This image displays the main unit with its pressure gauge and locking mechanisms.

## SAFETY INFORMATION

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Always adhere to the following safety precautions to prevent personal injury or damage to the autoclave:

- Ensure the autoclave is placed on a stable, level, heat-resistant surface.
- Do not operate the autoclave without sufficient water inside the chamber. The device features an automatic cut-off when the water level is low.
- Never open the lid while the autoclave is under pressure. Wait for the pressure gauge to read zero and for the unit to cool down.
- Regularly inspect the safety valve and release valve for proper function and blockages.
- Use appropriate personal protective equipment (PPE), such as heat-resistant gloves and eye protection, when handling hot components or materials.
- Ensure proper ventilation in the operating area.

- Connect the autoclave to a grounded power outlet with the correct voltage (AC110V / 50HZ).

## PRODUCT COMPONENTS

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The Mxmoonfree Portable Steam Autoclave consists of several key parts:

- **Autoclave Body:** The main stainless steel chamber.
- **Inner Pot:** A removable pot for holding items to be sterilized.
- **Seal Lid:** The top cover with a pressure gauge, safety valve, and release valve.
- **Pressure Gauge:** Displays the internal pressure during operation.
- **Safety Valve:** Automatically deflates if pressure exceeds safe limits.
- **Release Valve (Deflate Valve):** Manually releases pressure.
- **Flange Connectors:** Secure the lid to the body.
- **Rubber Seals:** Ensure an airtight seal between the lid and the body.



**Figure 2:** Exploded view of the autoclave components. This image illustrates the separate parts: the seal lid, the inner pot, and the main autoclave body.



**Figure 3:** Detail of the double valve system and flange connectors. This image highlights the deflate valve, safety valve, and the flange connectors used for securing the lid.

## SETUP INSTRUCTIONS

1. **Unpacking:** Carefully remove all components from the packaging. Inspect for any damage incurred during shipping.
2. **Placement:** Position the autoclave on a stable, flat, and heat-resistant surface in a well-ventilated area. Ensure adequate clearance around the unit for heat dissipation.
3. **Initial Cleaning:** Before first use, clean the inner pot and the main chamber with mild detergent and rinse thoroughly with distilled water.
4. **Water Filling:** Pour distilled water into the main autoclave body. Ensure the water level is sufficient but does not exceed the maximum fill line (if indicated) or submerge the items to be sterilized. Refer to the operating section for specific water level requirements.

5. **Loading Items:** Place the inner pot into the autoclave body. Arrange items to be sterilized within the inner pot, ensuring they do not block the steam vents or touch the lid.
6. **Securing the Lid:** Place the seal lid onto the autoclave body, aligning it correctly. Tighten the flange connectors evenly and securely to ensure a proper seal.
7. **Power Connection:** Connect the power cord to the autoclave and then to a grounded AC110V / 50HZ power outlet.



**Figure 4:** Autoclave with lid open, revealing the inner pot. This image shows how items are placed inside the autoclave for sterilization.

## OPERATING INSTRUCTIONS

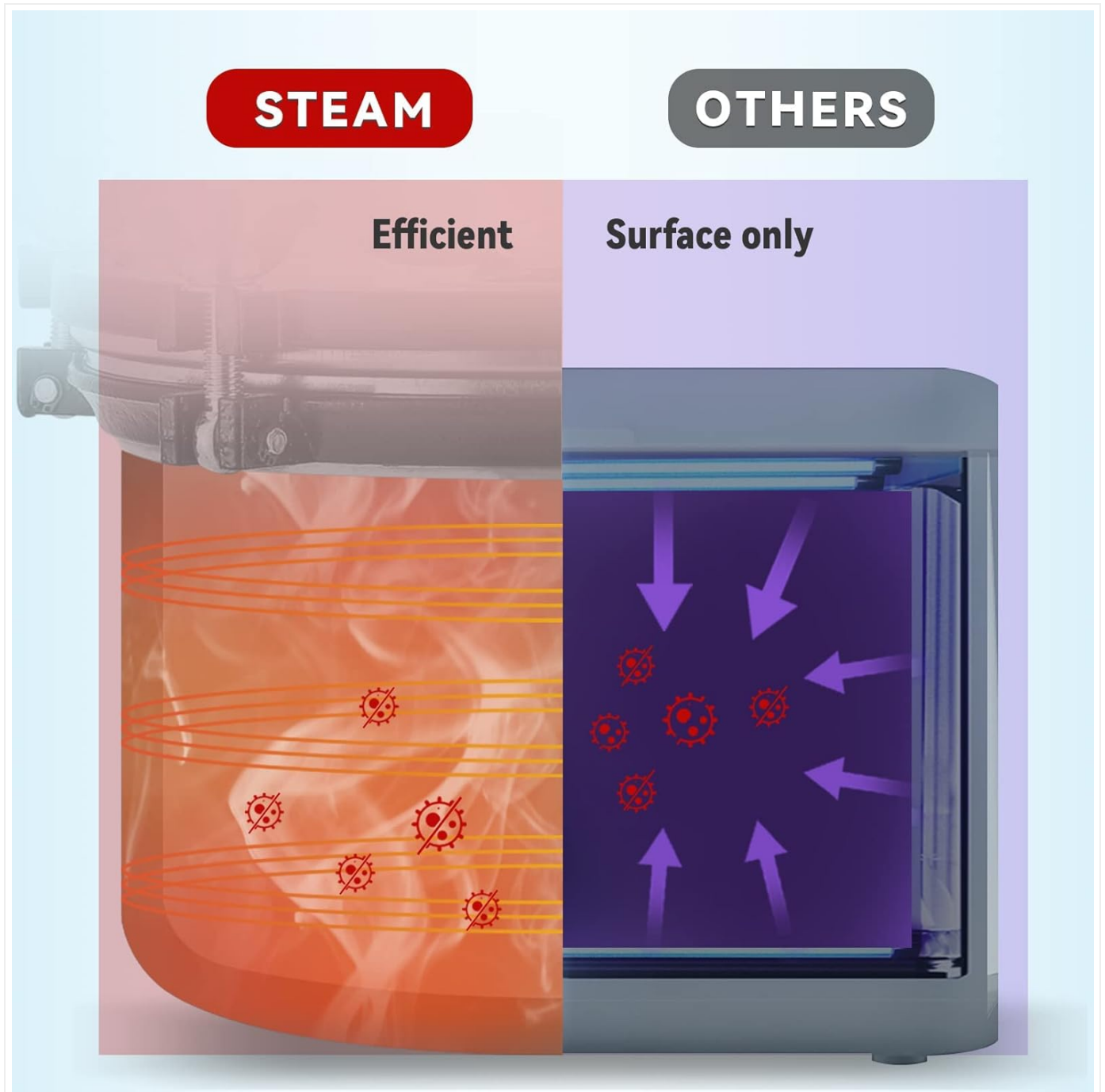
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Follow these steps for safe and effective sterilization:

1. **Preparation:** Ensure the autoclave is set up as described in the "Setup Instructions" section.
2. **Power On:** Turn on the autoclave. The heating element will begin to heat the water, generating steam.
3. **Pressure Build-up:** Monitor the pressure gauge. As steam is generated, the pressure inside the chamber will rise.

The rated working pressure is 0.14~0.17MPa (20.6~24.6psi), corresponding to a temperature of 126~129°C (259~264°F).

4. **Sterilization Cycle:** Once the desired pressure and temperature are reached, maintain these conditions for the required sterilization time. Typical sterilization times vary depending on the items and their density, but a common cycle is 15-30 minutes at the rated working pressure/temperature.
5. **Cool Down and Pressure Release:** After the sterilization cycle is complete, turn off the power. Allow the autoclave to cool down naturally until the pressure gauge reads zero. **Do not attempt to open the lid while pressure is present.** For faster cooling, you may carefully open the release valve (deflate valve) to slowly release steam, but exercise extreme caution due to hot steam.
6. **Unloading:** Once the pressure is fully released and the unit has cooled, carefully loosen the flange connectors and open the lid. Use heat-resistant gloves to remove the sterilized items.



**Figure 5:** Steam sterilization efficiency. This diagram illustrates how steam penetrates items for thorough sterilization, unlike surface-only methods.

## MAINTENANCE

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Regular maintenance ensures the longevity and safe operation of your autoclave:

- **Cleaning:** After each use, clean the inner pot and the main chamber to prevent residue buildup. Use distilled water for cleaning to avoid mineral deposits.
- **Seal Inspection:** Regularly inspect the rubber seals on the lid for cracks, wear, or damage. Replace seals if they show signs of deterioration to maintain a proper pressure seal.
- **Valve Check:** Periodically check the safety valve and release valve for any blockages or signs of malfunction. Ensure they move freely.
- **Exterior Cleaning:** Wipe the exterior of the autoclave with a damp cloth. Do not use abrasive cleaners.
- **Storage:** When not in use, store the autoclave in a clean, dry environment within the recommended storage temperature of -40~59°C and relative humidity of <80%.

## TROUBLESHOOTING

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Problem	Possible Cause	Solution
<b>Autoclave not heating</b>	No power supply; heating element malfunction; low water level cut-off activated.	Check power connection and outlet. Ensure sufficient water is in the chamber. If the heating element is faulty, contact customer support.
<b>Pressure not building up</b>	Lid not sealed properly; faulty rubber seal; leak in the system; faulty pressure gauge.	Ensure flange connectors are tightened evenly. Inspect and replace rubber seals if damaged. Check for visible leaks. If the gauge is faulty, contact customer support.
<b>Steam leaking from lid</b>	Lid not sealed properly; damaged rubber seal.	Retighten flange connectors evenly. Inspect and replace rubber seals if damaged.
<b>Safety valve frequently activating</b>	Overpressure due to excessive heating or blocked release valve.	Reduce heat source (if applicable for coal heating). Check release valve for blockages. Ensure correct water level.

## TECHNICAL SPECIFICATIONS

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- **Model:** JZ-N05A
- **Brand:** Mxmoonfree
- **Capacity:** 5.4L (9.4 inches diameter, 4.7 inches height) -*Note: Product title indicates 12L, please refer to physical dimensions for clarification.*
- **Voltage:** AC110V / 50HZ
- **Power:** 1KW
- **Rated Working Pressure:** 0.14~0.17MPa (20.6~24.6psi)
- **Rated Working Temperature:** 126~129°C (259~264°F)
- **Storage Temperature:** -40~59°C
- **Storage Relative Humidity:** <80%
- **Parcel Dimensions:** 40.64 x 35.56 x 35.56 cm

- **Weight:** 12.13 kg

# HOME PRESSURE CANNER

Mini style for personal or household use



**Working Temperature:** 121-126°C (250~259 °F)



**Working Pressure:** 0.10-0.14Mpa (15~20.3 psi)

**Figure 6:** Autoclave dimensions and key operating parameters. This image provides a visual reference for the unit's size and its working temperature and pressure ranges.

## WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please contact Mxmoonfree customer service. Refer to your purchase documentation for specific warranty terms and contact details.

**Manufacturer:** Mxmoonfree

**ASIN:** B09F2MLWKC

