

LiebeWH MH-020G

LiebeWH MH-020G Ultrasonic Cleaner User Manual

Model: MH-020G

1. INTRODUCTION

Thank you for choosing the LiebeWH MH-020G Dual-Frequency Ultrasonic Cleaner. This device is designed for efficient and thorough cleaning of various items using ultrasonic waves, combined with heating and degassing functions. It is suitable for a wide range of applications, from delicate jewelry to industrial parts. Please read this manual carefully before operating the unit to ensure safe and optimal performance.

2. SAFETY INSTRUCTIONS

WARNING!

- Always unplug the power source before filling or emptying the tank.
- Do not operate the heating function without water in the tank.
- Never leave the unit unattended while heating or in operation.
- Ensure the unit is powered off and the water has cooled to a normal temperature before draining the tank.
- Keep the unit away from children.
- Do not immerse the main body of the cleaner in water or other liquids.
- Use only appropriate cleaning solutions. Avoid flammable or corrosive liquids.
- If the power cord is damaged, it must be replaced by the manufacturer, its service agent, or similarly qualified persons to avoid a hazard.

3. PRODUCT OVERVIEW

The LiebeWH MH-020G Ultrasonic Cleaner features a durable SUS304 stainless steel tank, dual-frequency ultrasonic transducers, and an intuitive control panel for setting time, temperature, and special functions like degassing and turbo mode.



Figure 3.1: Main components of the LiebeWH MH-020G Ultrasonic Cleaner, including the unit, power cord, and cleaning basket.



Figure 3.2: The ultrasonic cleaner with its lid open, revealing the SUS304 stainless steel cleaning tank.



Figure 3.3: The included stainless steel cleaning basket, designed to hold items during the ultrasonic cleaning process.



Figure 3.4: The control panel with digital displays for temperature and time, and buttons for heating, degassing, sweep, turbo, and power.

Applications

This ultrasonic cleaner is suitable for various applications, including:

- Hardware parts
- Electronic components
- Auto parts
- Dental instruments
- Laboratory equipment
- Jewelry, watches, glasses
- Hospital cleaning rooms



Figure 3.5: Examples of items that can be effectively cleaned using the ultrasonic cleaner.

4. SETUP

1. **Unpacking:** Carefully remove the ultrasonic cleaner and all accessories from the packaging. Inspect for any damage.
2. **Placement:** Place the unit on a stable, flat, and dry surface. Ensure there is adequate ventilation around the unit.
3. **Power Connection:** Ensure the power switch on the back of the unit is in the OFF position. Connect the power cord to the unit and then to a grounded electrical outlet (EU Stekker).



Figure 4.1: Rear view of the unit, highlighting the power input and main power switch.

5. OPERATING INSTRUCTIONS

Follow these steps for effective cleaning:

1. **Fill the Tank:** Open the lid and fill the stainless steel tank with water. For optimal performance, fill the tank approximately 2/3 full.
2. **Add Cleaning Solution (Optional):** If required for your items, add an appropriate amount of cleaning detergent to the water. Stir the cleaning agent evenly to mix.
3. **Place Items:** Carefully place the items to be cleaned into the cleaning basket, then lower the basket into the tank. Ensure items are fully submerged but not touching the bottom of the tank directly. For heavily soiled items, pre-soaking may improve results.
4. **Set Time and Temperature:**

- Turn on the main power switch.
 - Use the control panel to set the desired cleaning time (0-30 minutes) and heating temperature (0-80 °C). If your model does not have a heating function, only set the time.
 - Press the 'Heating' button to activate the heating function.
 - Press the 'Degas' button to remove dissolved gases from the solution, which can improve cleaning efficiency.
 - Press the 'Sweep' or 'Turbo' buttons for specialized cleaning modes if desired.
5. **Start Cleaning:** Press the 'ON/OFF' button to start the ultrasonic cleaning process. The unit will operate for the set duration.
6. **After Cleaning:** Once the cleaning cycle is complete, turn off the unit. Wait for the water to cool down to a safe temperature if heating was used. Carefully remove the cleaning basket with the cleaned items.



Figure 5.1: The ultrasonic cleaner effectively cleaning delicate items such as glasses and a ring.

6. MAINTENANCE

Proper maintenance ensures the longevity and efficiency of your ultrasonic cleaner:

1. **Drain Wastewater:** After each use, especially if using cleaning solutions, drain the wastewater from the tank.
2. **Clean the Tank:** Wipe the inside of the tank with a dry, soft cloth. Do not use abrasive cleaners or steel wool.
3. **Exterior Cleaning:** Clean the exterior of the unit with a damp cloth. Do not spray water directly onto the unit.
4. **Storage:** Store the unit in a cool, dry place when not in use. Ensure the tank is completely dry before storage.
5. **Regular Inspection:** Periodically check the power cord for any signs of damage.

7. TROUBLESHOOTING

If you encounter issues with your ultrasonic cleaner, refer to the following common problems and solutions:

- **Unit does not power on:**
 - Check if the power cord is securely plugged into both the unit and the electrical outlet.
 - Ensure the main power switch on the back of the unit is in the 'ON' position.
 - Verify the electrical outlet is functioning correctly by plugging in another appliance.
- **Ultrasonic function not working:**
 - Ensure the tank is filled with water to the recommended level.
 - Check if the cleaning time has been set and the 'ON/OFF' button has been pressed.
 - Listen for a faint buzzing sound; ultrasonic waves are often not visible.
- **Heating function not working:**
 - Ensure the tank is filled with water. The heating element requires water to operate safely.
 - Verify the temperature setting is above 0 °C and the 'Heating' button is activated.
- **Poor cleaning results:**
 - Ensure items are properly submerged and not overcrowded.
 - Consider using a suitable cleaning solution for the type of dirt and material.
 - Increase cleaning time or temperature (if applicable).
 - Try using the 'Degas' function before cleaning to improve cavitation.

If problems persist, please contact customer support.

8. SPECIFICATIONS

Technical specifications for the LiebeWH MH-020G Ultrasonic Cleaner:

Inner Tank Size: Approx. 240 x 135 x 100mm / 9.4 x 5.3 x 3.9in
Product Size: Approx. 265 x 165 x 225mm / 10.4 x 6.5 x 8.9in



Figure 8.1: Product dimensions for the LiebeWH MH-020G Ultrasonic Cleaner.

Feature	Specification
Model	MH-020G
Material	SUS304 Stainless Steel
Capacity	3 Liters (Actual capacity: 3L)
Ultrasonic Power	120W
Heating Power	100W
Frequency	Dual Frequency: 40 kHz / 33 kHz
Vibrating Heads	2
Heating Temperature Range	0-80 °C
Cleaning Time Range	0-30 minutes
Inner Tank Dimensions (L x W x H)	Approx. 240 x 135 x 100 mm (9.4 x 5.3 x 3.9 inches)
Product Size (L x W x H)	Approx. 265 x 165 x 225 mm (10.4 x 6.5 x 8.9 inches)

Feature	Specification
Manufacturer	LiebeWH
Package Dimensions	34 x 30 x 25 cm
Package Weight	3.68 kg

9. WARRANTY AND SUPPORT

LiebeWH products are covered by a quality guarantee. For specific warranty details, please refer to the documentation provided with your purchase or contact your retailer. For technical support, troubleshooting assistance, or spare parts, please contact LiebeWH customer service through their official channels or your point of purchase.