



SONIC D
USER GUIDE

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INTRODUCTION

Ultrasonic cleaners function by producing sound waves that are transmitted into the tank and cleaning solution. These waves create millions of microscopic bubbles, which collapse or 'implode', releasing large amounts of energy, which scrub the surface clean. This process is called 'Cavitation'. These tiny bubbles create incredible cleaning results not only to the surface, but by penetrating the finer detail and recesses in small and hard to get areas to restore them to their former glory.

UNPACKING AND IMPORTANT

Remove cleaner from its packaging and ensure it is correct for your local voltage supply. Never operate without, or remove the safety ground (earth) from the A.C. power cord / mains lead.

SAFETY INSTRUCTIONS

KEEP AWAY FROM CHILDREN

This unit is not intended for use by individuals including children with restricted physical, sensory or mental capacities or those with a lack of experience and / or knowledge, including children, unless they are supervised by an individual who is responsible for their safety or have received training in operating the unit.

Please store the ultrasonic cleaner where it is not reachable by children.

Danger to children! Danger for death through suffocation! Keep packaging material away from children.

TO PREVENT LIFE-THREATENING ELECTRICAL SHOCK, OBSERVE THE FOLLOWING

Danger of electrical shock! Do not use while bathing. Never immerse the unit or the power cord in water or any other liquid. Never touch the power plug with wet hands, especially when inserting or removing the plug. If the unit has fallen into water during operation, do not touch the unit. Remove the power plug from the socket first.

Never operate the unit unattended.

Follow the manual to operate the unit.

Do not use components unapproved by the manufacturer.

When removing the power cord from the socket, grab the power plug not the cord.

Do not position power cord anywhere near a trip hazard.

If there is damage to the plug, cord, housing or other parts of the unit, do not use.

Do not open the unit as this will void your warranty.

Remove power plug from the socket: If malfunction occurs; Before cleaning the unit; If the unit is not going to be used for prolonged use and after each use.

TO PREVENT FIRE HAZARDS, PLEASE OBSERVE THE FOLLOWING

Never block the vents on the unit. Keep the vents free from lint, hair and other materials.

Do not place the unit on a soft surface, such as a bed or a sofa, where the vents could become blocked.

OTHER OBSERVATIONS

- Do not operate the product without filling the tank with water. Running dry will damage the unit.
- Do not plug in the power cord before first adding water to the tank.
- Do not over-fill the tank.
- Do not use solution containing abrasive substances or strong corrosive chemical solution not recommended by the manufactures or the supplier.
- Place the unit on a dry and flat surface for operation.
- When the unit is subjected to severe electromagnetic interference, it may malfunction, stop operating or lose control functions. If this happens, unplug the power cord then reinsert it to restart the unit.



NOT SUITABLE FOR ULTRASONIC CLEANING

Porous stones such as pearls etc should not be immersed.

Watches should be fully waterproof (30m or more).

Any unfirm or inlaid item may become loose.

Items that are easy to be discoloured are not recommended for ultrasonic cleaning.

Welded or plated metal items

Glued items

Glass

Ceramics

Camera Filters

Spectacles (Check with your optician)

Blu-Ray discs

SUGGESTED APPLICATIONS

DOMESTIC

Jewellery: Necklaces, rings, bracelets, etc.

Watches: Waterproof wristwatches, watch chains.

Toiletry Items: Electric toothbrush heads, Electric shaver heads, Razor blades, Combs, Toothbrushes, Dentures etc.

Office Equipment: Printer heads, fountain pen nibs, wax or rubber stamps etc.

Metal Items: Metal cutlery (knives/forks etc), old coins, metal badges, valves, machine nozzles, small metal parts etc.

COMMERCIAL/INDUSTRIAL

Airbrushes/ Spray-guns
Automotive/ Aviation components
Calligraphic pens/ nibs
Computer plotter pens/ nibs
Dental & surgical instruments
Fuel injectors
Geological & metallurgical specimens
Hypodermic needles
Ink jet printer cartridges
Jewellery manufacturing
Laboratory glassware & apparatus
Lenses & other optical components
Metal / fibre filters
Metal / rubber seals
Microelectronic circuits & components
Moulding dies
Nozzles
Printed circuit board (PCBs)
Production line cleaning
Scientific & Industrial instruments
Spectacle frames & lenses
Watches & clockwork

SEACLEAN 2



Made from a unique formula containing natural products, mixing carefully balanced quantities of seaweed, coconut oils and fruit extracts to create a powerful cleaning solution.

SeaClean2 will expertly clean tarnished items and assist in the removal of carbon, rust and dirt from most solid metals*, precious stones* and ink jet cartridges to return them to a shiny condition.

Available in 500ml, 1L, 5L and 25L bottles.



**Set:**

Primes unit for adjusting cleaning time. This is then altered using + / - keys above.

+/- Keys:

Use for adjusting settings.

Degas:

Intermittent operation of ultrasonic power for rapid removal of entrained air from liquids.

Start/Stop:

Starts and stops ultrasonic cleaner.

Power On/Off:

Primes unit for adjusting cleaning time. This is then altered using + / - buttons above.

OPERATION INSTRUCTIONS

- 1) Check the specification table for the correct operating requirements (located on the rear of the unit).
- 2) Before connecting power, put the unit on a stable and flat working surface. Add water to tank, sufficient to completely immerse the items being cleaned. Using the stainless steel basket is highly recommended. Never operate the unit without water in the cleaning tank. Always fill the unit above 2/3 marker line indicated on the inside of the tank. Failing to do so, may cause damage to the unit.
- 3) Connect the power cable to the rear of the unit and ensure the wall supply is switched ON. All the buttons are touch-sensitive, just lightly touch with your finger. Touch the  button on the front panel to turn on the machine. You are now ready to set the timer and temperature.
- 4) Setting the Temperature- When the power is on, the LCD will display the actual temperature of the solution within the tank. The temperature setting figure will flash once the  option is pressed to set temperature. It indicates that the temperature setting function has been started. Then, press   button to set the required temperature.

When the set temperature is higher than the actual temperature, the built-in heater will initiate the heating function. The working status (OFF and ON) is visible through the LCD display window. When the heater has reached the necessary temperature, the heating function will stop automatically. When the set temperature is lower than the actual one, heating will not start automatically. In this case, the fluid will enter into the constant temperature state. The heating function is not restricted by the ultrasonic cleaning timing but can work for a long time (however, it is necessary to make sure there is enough water inside the tank). To deactivate the heating function, input "00" in preset temperature, then the Heater will be turned off.

- 5) Setting the timer- When power is on, the timing setting figure will flash once the **Set** option button has been pressed. This indicates that a time setting is required. To set the timer, press the **+** **-** button to set the required cleaning time (Minutes).

The ultrasonic's cleaning function will instantly start once the **▶** button is pressed. The LCD display window displays "U" which represents that the ultrasonic is working. Cleaning will stop automatically when the cleaning time (seconds) and (minutes) has counted down to "00" on both sides. The figure will resume the original setting automatically. This is the "memory function".

- 6) Memory Function and Pause Function **▶** (= Start/Pause)--Every time the Green Button is touched; the memory function will be activated to keep the "MIN" figure in the memory (but not the "SEC"). When the timer stops automatically, the memorized "MIN" figure will be remembered. It is convenient for frequent users who repeat with same cleaning time cycle, as there is no need to reset again and again. The Green Button is also a PAUSE function button allowing you to pause the unit whilst the ultrasonic timer is still running, touch **▶** again to release the pause and continue the operation (need to RESET desired memorized setting figure again after Pause function is used).

- 7) Use of degassing function: at the normal working state, the machine will start degassing function once the **Degas** button is pressed. Then, the LCD displays "D". Degassing function will stop once **Degas** button is pressed again. Then, the LCD displays "U".

- 8) **Power** Red Button- This is the power switch for the machine. When you have finished using the machine, touch **Power** to make sure that all of the displays have turned off. Disconnect the unit from the mains supply and remove the power cable.

SONIC MX SERIES



OPERATION INSTRUCTIONS

- 1) Check the specification table for the correct operating requirements (located on the rear of the unit).
- 2) Before connecting power, put the unit on a stable and flat working surface. Add water to tank, sufficient to completely immerse the items being cleaned. Using the stainless steel basket is highly recommended. Never operate the unit without water in the cleaning tank. Always fill the unit above 2/3 marker line indicated on the inside of the tank. Failing to do so, may cause damage to the unit.
- 3) Connect the power cable to the rear of the unit and ensure the wall supply is switched on. Touch the button on the front panel to turn on the machine. You are now ready to set the timer and temperature.
- 4) To freely set the required heating temperature. When the set temperature is higher than the actual temperature, the built-in heater will initiate the heating function immediately. The working status (OFF and ON) is visible through the LCD display window. When the heater has reached the required temperature, the heater will stop automatically. When the temperature is lower than the set one, heating will also start automatically. In this case, the fluid will be maintained at the current set temperature.
- 5) Setting the timer. When the power is on, rotate the timing knob to set the cleaning duration. Adjustments will be visible on the LCD display. At this time, the ultrasonic cleaning function will start promptly once the  button is pressed.
- 6) Start/stop button () Pressing this will start the unit, press again to pause/stop cleaning, this is useful to stop the unit mid cycle and inspect cleaning progress.

- 7) Use of degassing function: at the normal working state, once the  button is pressed, the machine will start the degassing function and the degas button indicator lamp will be on. Once  button is pressed again, degassing function will stop and degassing button indicator lamp will be off.
- 8) Use of sweep function: at the normal work status, the sweep function will start and the sweep button indicator lamp will be on once the  button is pressed. If the button is pressed again, the machine will stop the sweep function and the sweep button indicator lamp will turn off.
- 9) Use of pulse function: at the normal working status, once the  button is pressed, the machine power will be increased to 120% and the pulse button indicator lamp will be on. If the  button is pressed again, the pulse function will stop, the pulse button indicator lamp will be off and the power will resume the normal value.
- 10) Use of power regulating function: the power is 40% when the power is on normally. The power range changes from 40% to 70% and 100%, which can be chosen freely by pressing the  function button. Then, the set value will be displayed in the LCD display module.

DIFFERENT WAYS OF CLEANING

- 1) **General Cleaning:** Only use plain warm water, about 50°C.
- 2) **Enhanced Cleaning:** Add a few drops of standard washing up liquid, liquid soap, or detergent into the water, other non-acidic based cleaning agents can be also used.
- 3) **Extensive Cleaning:** Removing Tarnish, Carbon and Rust from non-plated metals, it is recommended that you use a specialist cleaning solution such as SeaClean2 that has been developed to work in an ultrasonic cleaner.

Warning: Strong acid or alkaline cleaning solution will cause corrosion, rust and even puncture a tank or machine body. This will void your warranty.

Model	3D	4D	6D	3MX	4.5MX	6MX
Volume Size	3	4	6	3	4.5	6
Tank Internal Dimension	238 × 138 × 100	302 × 152 × 100	302 × 152 × 100	238 × 138 × 100	238 × 138 × 150	302 × 152 × 150
Operation Frequency	40	40	40	37	37	37
Adjustable Power				✓	✓	✓
Ultrasonic Power	120	120	180	160	160	240
Drainage Tap			✓			✓
Degas	✓	✓	✓	✓	✓	✓

USEFUL INFORMATION FOR GUARANTEE OR REPAIR PURPOSE

Model Number	
Date of Purchase	
Invoice/Receipt Number	
Supplier Name, address and contact information	
Serial Number	
Remarks	

