1. INTRODUCTION

Ultrasonic cleaning is based on the Cavitation Effect caused by high frequency ultrasonic wave vibration signal in liquid. Millions of tiny bubbles are created when ultrasonic sound is passed through liquid. It is these tiny bubbles that implode violently to cause Cavitation, which have great impact and provide intense scrubbing action on the surface of the cleaning object. Additionally, these bubbles are small enough to penetrate even microscopic crevices, cleaning them thoroughly and consistently.

2. UNPACKING AND IMPORTANT SAFETY INSTRUCTIONS

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

3. SAFETY INSTRUCTIONS

KEEP AWAY FROM CHILDREN

This device 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 whom is responsible for their safety or have received training in operating the device.

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

Do not use while bathing. Never immerse the device 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 device unattended.

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 device, do not use the device.

Do not disassemble the device, except by professionals. Call James Products for assistance.

Remove power plug from the socket:

If malfunction occurs.

Before cleaning the device.

Storing for extended periods of time.
**TO PREVENT FIRE HAZARDS, PLEASE OBSERVE THE FOLLOWING**

Never block the vents on the device. Keep the vents free from lint, hair and other materials.
Do not place the device on a soft surface, such as a bed or a sofa, where the vents could be blocked.
Observe the other warnings in previous section.

**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 device on a dry and flat surface for operation.
When the device 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 device.

**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.

**Others:**
- Glass
- Ceramics
- Camera Filters
- Spectacles (Check with your optician or James Products first)

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**4. 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/ Sprayguns
- Automotive/ Aviation components
- Calligraphic pens/ nibs
- Computer plotter pens/ nibs
- Dental & surgical instruments
- Fuel injectors
- Geological & metallurgical specimens
- Hypodermic needles
- Inkjet 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

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**5. SEACLEAN 2**

*Double Strength Concentrate*

The ultimate green cleaner, SeaClean2 concentrate will assist the removal of tarnish and dirt from most items to return them to a shiny condition. When used with an ultrasonic cleaner, the cleaning process should take only minutes, removing the need for soaking. Made from a unique formula containing natural products, mixing carefully balanced quantities of seaweed, coconut oils & other fruit extract to create a powerful cleaning solution.

Available from all good James Products stockists!
5. SONIC D SERIES

6. 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, suitable to completely immerse the items to be cleaned. Using stainless steel basket is highly recommended.

3) Connect the power cable on the rear of the unit and ensure the wall supply is switched ON. All the buttons are touch-sensitive, just slightly touch with finger. Touch 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 power is on, the LCD actual temperature display window comes up with ingroove temperature. The setting figure will flash once the option is pressed to set temperature. It indicates the temperature setting function starts. Then, press button for up-regulation or down-regulation to freely set the needed heating temperature. When the set temperature is higher than the actual temperature, the in-built heating band will initiate heating function promptly. The working states (OFF and ON) are visible through LCD display window. When heating up to the necessary temperature, the heating will stop automatically. When the temperature is lower than the set one, heating will also start automatically. In this case, the fluid will enter into the constant temperature state. 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 slot). To inactivate the heating function, input "00" in preset temperature, then Heater will be off.

5) Setting the timer--When power is on, the timing setting figure will flash once the option setting button is pressed. It indicates the operation of timing setting function. At this time, you can press button for up-regulation or down-regulation to set the needed cleaning time (Min) freely, the ultrasonic's cleaning function will instantly start once button is pressed. LCD display window displays "U" which represents the ultrasonic is working. Cleaning will stop automatically when the cleaning time (sec) and (min) is counted down until "00" at both sides. The figure will resume the original setting automatically. This is the so-called "memory function".

6) Memory function and Pause Function -- Every time the Green Button is touched; memory function will be activated to keep the 'MIN' figure in memory (but not for 'SEC'). When timer stops automatically, memorized MIN figure will be resumed. It is convenient for frequent users who repeat with same cleaning time cycle, no need to reset again and again. It is also a PAUSE function button to pause when ultrasonic timer is still running on, touch again can release pause and continue the operation (need to RESET desired memorized setting figure again after Pause function is used).

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

8) button--It is power switch of the machine. When finish using, Touch to make sure all the displays turn off. Disconnecting the unit from the mains supply and remove the power cable.
6. SONIC MX SERIES

7. 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, suitable to completely immerse the items to be cleaned. Using stainless steel basket is highly recommended.

3) Connect the power cable on the rear of the unit and ensure the wall supply is switched ON. All the buttons are touch-sensitive, just slightly touch with finger. Touch 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 power is on, LCD display module displays the fluid's actual temperature. Rotate heating knob to the related gears. To freely set the needed heating temperature. When the set temperature is higher than the actual temperature, the in-built heating band will initiate heating function promptly. The working states (OFF and ON) are visible through LCD display window. When heating up to the necessary temperature, the heating will stop automatically. When the temperature is lower than the set one, heating will also start automatically. In this case, the fluid will enter into the constant temperature state. 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 slot).

5) Setting the timer: When power is on, rotate the timing knob to set related gears, and then LCD display module shows related settings. At this time, ultrasonic cleaning function will start promptly if button is pressed. Then, LCD display module shows remaining time. When cleaning time is due, the ultrasonic stops and LCD display module shows that remaining time resumes the position before setting. At this time, so long as button is pressed, cleaning will start again. This is “memory function”. It is convenient to use.

6) PAUSE function: after pressing button each time, the machine will initiate PAUSE function and the ultrasonic will stop outputting. Press the button again to operate continuously after observing the cleaning effect.

7) Use of degassing function: at the normal working state, once button is pressed, the machine will start degassing function and 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 state, sweep function will start and sweep button indicator lamp will be on once button is pressed. If button is pressed again, the machine will stop sweep function and sweep button indicator lamp will be off.

9) Use of pulse function: at the normal working state, once button is pressed, the machine power will be increased to 120% and pulse button indicator lamp will be on. If 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 LCD display module.

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, DAMAGE MAY OCCUR.
8. DIFFERENT WAYS OF CLEANING

1) GENERAL CLEANING — use only plain water. Use warm temperature about 50 C.

2) ENHANCED CLEANING — add few drops of standard washing up liquid, liquid soap, or detergent into water, other non-acidic based cleaning agents can be also used.

3) EXTENSIVE CLEANING — Removing Tarnish, Carbon & Rust from non-plated metals, it is recommended to use specialist cleaning solution in associated using ultrasonic cleaner.

Warning: Strong acid or alkaline cleaning solution will cause corrosion, rust and even puncture of tank or machine body. To overcome this problem, dilute to mild pH solution.

Useful information for Guaranty or Repair Purpose

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Date of Purchase</th>
<th>Invoice/Receipt Number</th>
<th>Supplier Name, address and contact information</th>
<th>Serial Number</th>
<th>Remarks</th>
</tr>
</thead>
</table>

End-user is advised to note for different After-Sales-Services condition provided by Local retailer/dealer. Internet Technical Support is always available from manufacturer.

GUARANTEE

Your ultrasonic cleaner has been carefully manufactured and 100% tested using high quality assured components. It is guaranteed against faulty workmanship and materials for a period of 24 months from the date of purchase. In the unlikely event that a failure should occur, the unit will be repaired or replaced free of charge* when returned postage paid to the address below within the guarantee period. This guarantee does NOT include damage or failure resulting from misuse, damage in transit or failure by the user to comply with the safety regulations stated in this manual. (This list is not exhaustive).

James Products Ltd
Unit 1 Church Close Business Park
Todber
Sturminster Newton
Dorset
DT10 1JH
England

Tel: +44 (0)1258820100
Fax: +44 (0)1258820550

www.JamesProducts.eu

LIMITED WARRANTY

Consequential and incidental damage, including without limitation, loss of property and those arising from breach of any express or implied warranty, are not the responsibility of James Products Ltd and to the extent permitted by law, are excluded.