



## R-100141

ES..... BAÑO DE LIMPIEZA POR ULTRASONIDOS .....	4
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**MESTRA®**

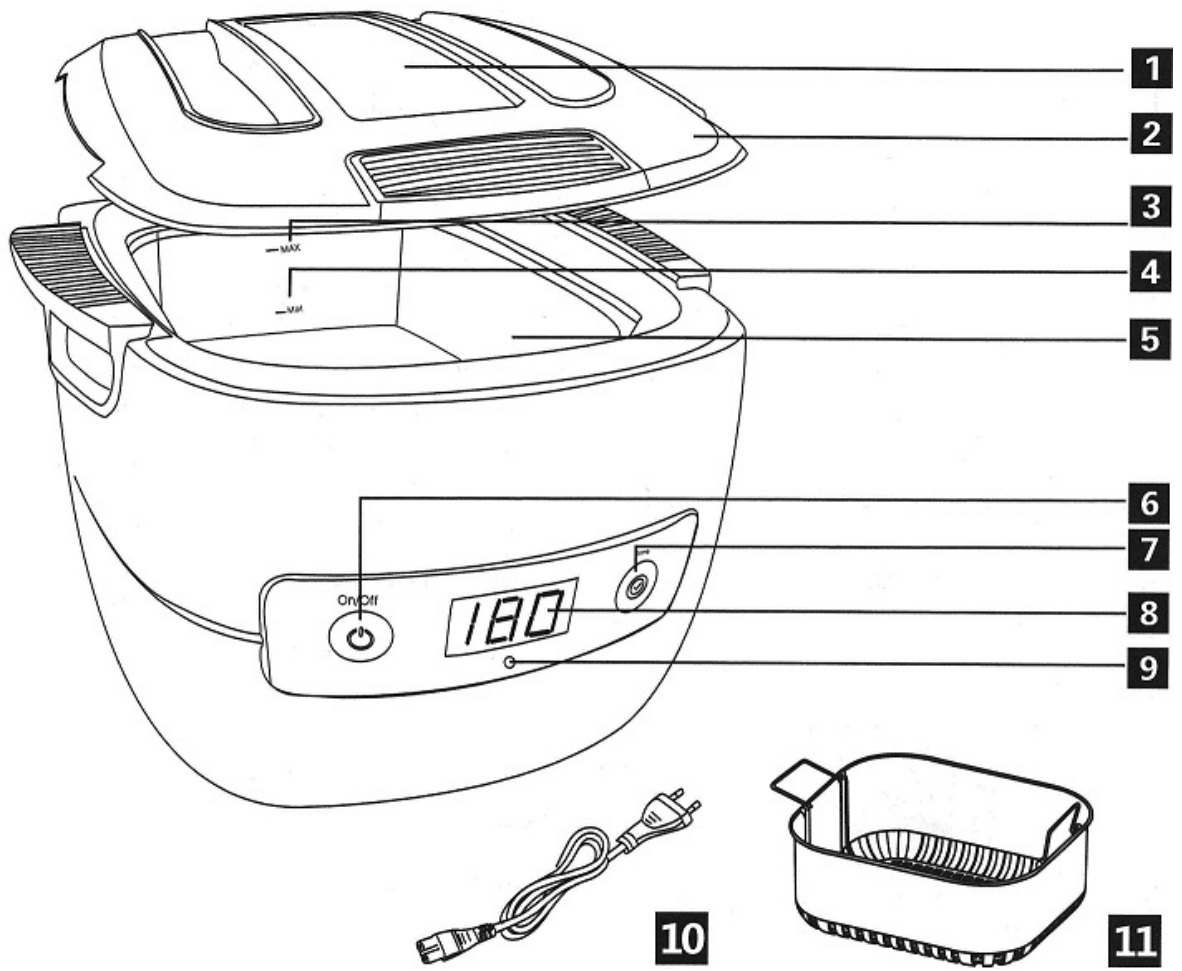
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1.	MIRILLA	VIEW WINDOW	<i>VETRO TRASPARENTE</i>
2.	TAPA	LID	<i>COPERCHIO</i>
3.	INDICADOR "MAX"	"MAX" MARK	<i>INDICATORE "MAX"</i>
4.	INDICADOR "MIN"	"MIN" MARK	<i>INDICATORE "MIN"</i>
5.	CUBA DE ACERO INOX	STAINLESS STEEL TANK	<i>VASCHETTA IN ACCIAIO INOX</i>
6.	TECLA "ON-OFF"	"ON-OFF" BUTTON	<i>PULSANTE "ON-OFF"</i>
7.	TECLA TEMPORIZADOR	"TIMER" BUTTON	<i>PULSANTE TIMER</i>
8.	PANTALLA DIGITAL	DIGITAL DISPLAY	<i>DISPLAY DIGITALE</i>
9.	INDICADOR LUMINOSO	INDICATION LIGHT	<i>SPIA LUMINOSA</i>
10.	CABLE	POWER CORD	<i>CAVO</i>
11.	CESTILLO DE PLÁSTICO	PLASTIC BASKET	<i>CESTELLO IN PLASTICA</i>

R-100141 is a practical Ultrasonic Bath specially designed for a wide range of applications. For a long working life and an optimum performance, we recommend you to read carefully the following instructions:

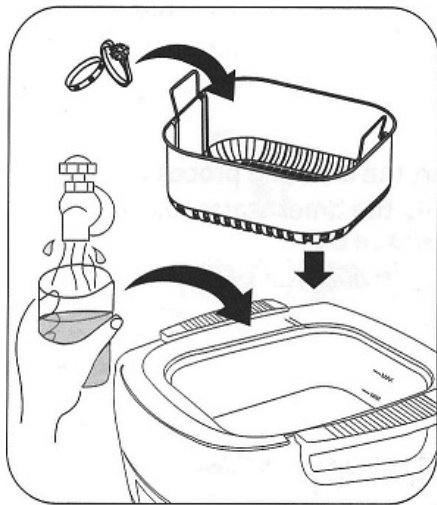
## INSTALLATION

- Carefully unpack the Ultrasonic Bath. Inside you will find the following accessories:
  - 1 power cord.
  - 1 plastic basket.
- Choose a flat and firm surface far from heat or vibration sources.
- Connect the power cord to the socket of the unit and to a 230 V, 50/60 Hz earthed power source.
- Open the lid, place the products in the basket in line and then put the basket inside the tank.
- In order to prevent scratches and friction of the products, do not pile them up.
- Pour water into the stainless steel tank. The water should cover the products but within the *min.* and *max.* marks.
- The machine is ready for operation.

## CONTROL PANEL AND OPERATIONS

1. Indicator Light - Working Status  
Red - Normal working status.
2. On/Off button - On/Off switch for the unit  
After powering on, the LED displays “180” which is the default time and the unit is ready with normal working status.  
Press On/Off button once and the cleaning starts. The cleaning stops when the timer counts down to “000”. If the unit needs to be stopped before the timer runs up, press On/Off button.
3. “180” digital LED display of working time. It counts down after work being started.
4. Time button – Timer set button. When the unit is electrified, “180” is displayed automatically. It is the most common used working cycle. Every time press time button, these optional working cycles from 180S→280S→380S→480S→90S.

## CLEANING METHODS



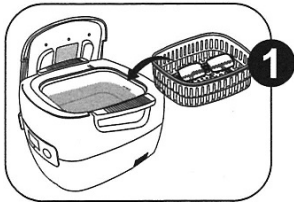
1. Add water to the cleaning tank to the level between “MIN” and “MAX” lines and above the area to be cleaned.
2. Put the items to be cleaned inside the basket or directly in the cleaning tank.
3. Select the time from 90 to 480 seconds. Press ON/Off button to start cleaning.

### Notes on using the basket:

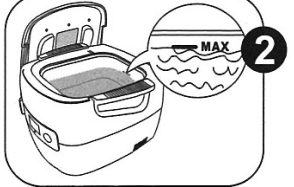
1. The basket reduces the friction between the items and the tank but it absorbs about 30 % of ultrasonic energy and reduces the cleaning effect.
2. When the items are relatively large and with greasy debris, they can be put in the tank directly.

During cleaning, debris will come off the items like “smoke”. Water will become murky. Cleaning is done when smoke is no longer visible. Replace the water to wash other items.

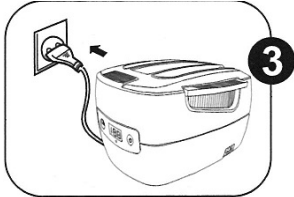
## OPERATION GUIDELINES



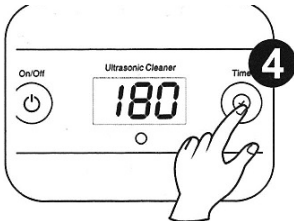
Open the cover, place the object to be cleaned inside the basket then in the stainless steel tank.



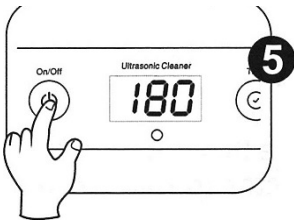
Fill the tank with tap water.  
The liquid must cover the object that is to be cleaned, but must not exceed "MAX" line.



Close the cover and plug in the power cord.  
- "180" appears in the display window.  
- This is the default time and is good for normal cleaning.



Select desired time setting by pressing Time button:  
180S → 280S → 380S → 480S → 90S

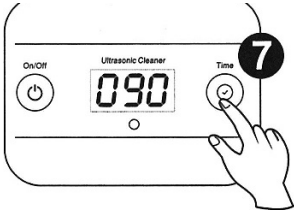


Press "On/Off" button to start the cleaning process. The red LED lights up and the timer starts to count down to zero.

*Note: you'll hear buzzing sound which is normal.*

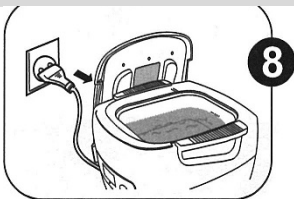


When the timer counts down to zero, the cleaning process stops automatically and the display shows "000".



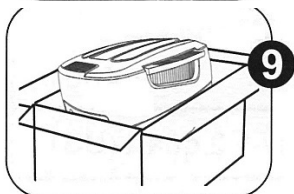
If you need to end the process ahead of time, press On/Off button. If you need to repeat the cycle or to increase the time, press Time button to select desired time then press On/Off button again to restart it.

**Important!** Long cycle time will cause heat to build up inside the unit and water temperature to rise. Do not use the unit for more than 20 minutes continuously. Take a 10-minute break in between to prolong the life of the unit.



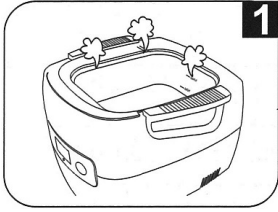
When clean is done, open the cover, remove the items. Empty the tank by pouring out the water in the direction shown with arrow on the unit. Avoid pouring it over the front where the control panel is located. Wipe the tank clean and remove the power plug.

*Note: To avoid residue building up, always empty the tank and wipe it clean. We recommend using fresh water each time.*



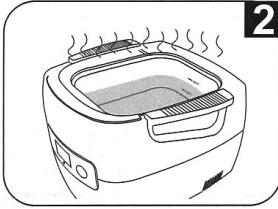
Store the unit in a cool and dry place.

## CARE AND MAINTENANCE



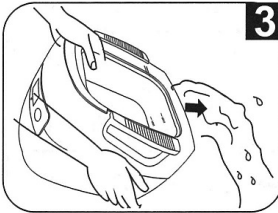
**1 Do not turn on the unit without water in the tank.**

Even though the unit is designed with multiple protections, if it is turned on for over 30 seconds without water in the tank, it may damage the unit or severely reduce the life of the unit.



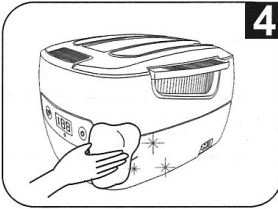
**2 Do not run the unit for extended time or continuously.**

Do not run the unit continuously for over 20 minutes. Stop for about 10 minutes in between to prolong the life of the unit.



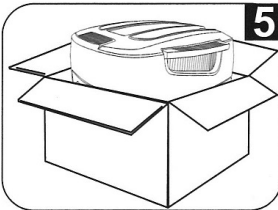
**3 Do not keep water in the cleaning tank for a long time.**

After cleaning is completed, unplug the power cord then pour the water out through the pouring recess. Avoid getting the water inside the housing through the vents and causing damage.



**4 Do not spray water over the housing.**

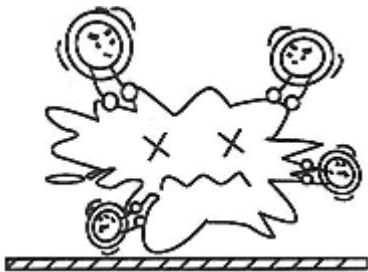
Use a towel to wipe the tank and the housing.



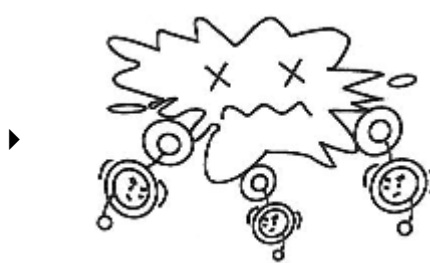
**5 Do not expose the unit under direct sun shine for long.**

Keep the unit in a dry, cool and ventilated area.

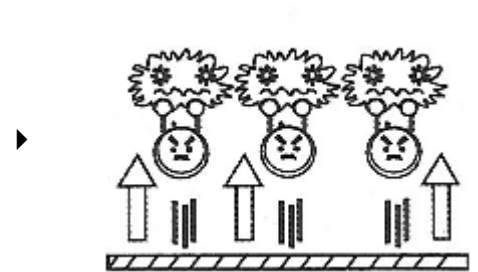
## PRINCIPLES OF ULTRASONIC CLEANING



Millions of tiny air bubbles are generated within liquid by high frequency vibration.



The air bubbles burst when in contact with object.



The impact dislodges the debris to achieve the cleaning effect.

## PRECAUTIONS

**IMPORTANT-** *The input voltage of the Ultrasonic Bath transducers can reach hundreds of volts. Therefore, it is very important to observe the following Safety Regulations:*

- 1) Do not open the lid when the power cord is connected to the power supply.
- 2) Do not spill water or any other conducting fluid over the unit's housing.
- 3) Always connect the unit to grounded power outlets.

- ◆ Connect the unit to a grounded 230 V, 50/60 Hz power outlet.
- ◆ Do not use inflammable solvents as cleaning solutions.
- ◆ Keep the unit unplugged before filling it. Do not fill the tank above the *max.* mark. Do not start up the unit when the water level is below the *min.* mark.
- ◆ Do not allow children or unskilled people to handle the unit.
- ◆ Never submerge the unit in any liquid to clean it.
- ◆ Ultrasonic cleaning is not suitable for organic pearls.
- ◆ Do not open the unit while it is connected to the power supply.
- ◆ The machine lid may be hot after a cycle. Proceed with caution when removing it.
- ◆ If you are not sure of the effects of the cleaning solution on a given type of item, carry out a previous test with a single item.
- ◆ Do not attempt to remove any screw or panel. The user does not need to manipulate anything inside.
- ◆ To prevent electric shock, never touch the power cord or socket with wet hands.
- ◆ Never operate the unit if the plug or the power cord is damaged. If the unit does not work properly, is damaged or has fallen into the water, refer it to a technical service for examination and repair.
- ◆ Do not touch the unit if it has fallen into the water. Unplug it immediately.
- ◆ Use the unit properly according to the user's guide. Do not use accessories not recommended by the manufacturer.
- ◆ The unit should never be left unattended when it is plugged.
- ◆ Do not operate the unit next to heat sources such as radiators.
- ◆ Install the unit on a dry and flat surface.

## CLEANING SOLUTIONS

Cleaning solutions can be classified into two types: those with water as the basic element and cleaning solution, and solvents.

The most common cleaning method is with water, as it has an acceptable capacity to dissolve inorganic substances. However, it is extremely limited in dissolving organic substances. For this type of compound, water is a good medium for the dispersion of waste particles, and a good support for specific detergents which dissolve organic substances.

In most cases a mixture of water and domestic washing up liquid can be used as a cleaning solution. Nevertheless, when the quantity or nature of dirt is resistant to this type of cleaning solutions, specific solvents for ultrasonic baths have to be used. **Under no circumstances should inflammable solvents or environmentally unfriendly products be used.**

## TECHNICAL SPECIFICATIONS

Dimensions:	243 x 164 x 228 mm
Max. length:	190 mm
Tank dimensions:	168 x 138 x 66 mm
Tank capacity:	1400 ml <i>Min: 450 ml / Max: 1100 ml</i>
Frequency:	42 kHz
Power supply:	AC 220-240V / 50Hz
Power:	70 W
Timer setting:	→ 180s → 280s → 380s → 480s → 90s →
Weight:	2,7 kg