

# **Ultrasonic Cleaner**

**YM-4820**

Instructions for Use

Please read the instructions before use

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### **IMPORTANT!**

When using electrical appliances, especially in the presence of children, the following rules must always be observed. Read them before use.

#### **1. Safety regulations**

To avoid burns, fire and other injuries:

1. Do not leave the appliance connected to the mains unattended.
2. When connecting the appliance, proceed strictly in accordance with the manufacturer's instructions.
3. Do not touch the wires and sockets with wet hands.
4. Keep the wires away from hot surfaces.
5. Be especially careful when handling appliances in the presence of children.
6. The wires and sockets must be in working order. If the device has been dropped or otherwise damaged as a result of improper operation, contact the service center.
7. Do not turn on the bathtub without pouring in the cleaning liquid. The liquid level must not exceed the maximum mark indicated on the reservoir, nor be less than half the volume.

8. Do not use abrasive and corrosive chemicals as a detergent.
9. Always unplug the device from the power supply after use.
10. If unsuitable objects have fallen into the bathtub, unplug the device from the power supply before reaching for them.
11. Do not place or throw the device into water or other liquids.

## **2. What should not be cleaned in the bathtub**

1. Costume jewelry (artificial products: pearls, emeralds, ivory, coral, agates). Artificial coral and ivory may be scratched, stones may lose their color, and may be scratched by rubbing against each other.
2. Precious metal products (if the product is soldered, has an electroplated coating, etc.). Ultrasonic cleaning may damage the soldered areas.
3. Watches. If they are not marked as waterproof to a depth of 30 m or more.
4. Other items. (Wood, glass, and ceramic products.)

## **3. Application**

1. Jewelry factories and jewelry stores.
2. Chemistry laboratories.
3. Dental clinics.
4. Household use.
5. Restaurants.
6. Repair shops.

4. Items that can be cleaned

1. Jewelry (necklaces, rings, earrings, bracelets, etc.).
2. Glasses, waterproof watches
3. Electric razor heads, brushes, artificial teeth, children's toys.
4. Stationery, pen nibs, stamps.
5. Metal products (watch parts, brooches, valves, etc.).
6. Tableware.

## **5. Cleaning principle**

Ultrasonic waves create a large number of microscopic bubbles in the detergent. Dirt mixes with these bubbles and separates from the surface of the product.

## **6. Selecting the cleaning duration**

180 seconds. When you first turn on the bath, this duration appears on the screen. This is the most optimal mode. After pressing the "Start" button, the remaining cleaning time will be displayed on the screen.

280 seconds. By pressing the button with a dial (to the right of the screen), another duration appears - 280 seconds. This mode is usually used when cleaning an object for the first time, as well as if the dirt cannot be removed in a shorter time.

380 seconds. Can be used to clean different objects at the same time.

480 seconds. This mode is used for enhanced cleaning. This mode may slightly damage the extremely fine parts of objects.

90 seconds. If "smoke" continues to come from the object after 180 seconds of cleaning, use this mode. In principle, this mode is used after all of the above. However, before starting it, the contaminated detergent must be replaced. This will improve the quality of cleaning the surfaces of the object.

## **7. Four types of cleaning**

Type one (basic)

Simply place the item in the tank, pour the liquid over it and make sure that the item is completely submerged in the liquid and that its level does not exceed the maximum level mark. Press the "Start" button. (Note: During cleaning, dirt is released, which is why the item "smokes". As the liquid absorbs the dirt, the "smoking" stops. This means that the item is cleaned. The whole process usually takes 3 minutes.)

Second method (using heating)

Used to remove polish from unfinished rings, necklaces, etc.

Place the items in a plastic basket and pour into the container. Fill the container with washing liquid. Press the "TC" button. After approximately 40 minutes, the liquid temperature reaches 65 °C and the heating automatically turns off. (Tip: If you need to reduce the heating time, use pre-heated liquid. But not boiling!)

Press the "SET" button and select the required cleaning time of 280-480 seconds, then press the "On" button.

Method 3 (using liquid soap)

This method can be used if the surface of the object is very oily.

For very oily items, you can add about 1 teaspoon (4 ml) of liquid soap to the washing liquid. Press the "SET" button and select the required cleaning time of 280-480 seconds, then press the "On" button.

Method 4 (combination of methods 2 and 3)

For cleaning pneumatic valves, hydraulic control valves, fuel injectors and other heavily soiled mechanical parts.

Place the parts in a container using a plastic basket. Turn on the heater as described in method 2. When the liquid has heated to 65 °C and the heater has automatically turned off, add a spoonful (4 ml) of liquid soap, press the "Set" button, select the duration of 480 seconds and press the "On" button.

## **8. Maintenance and storage**

1. After cleaning, unplug the bathtub, pour out the washing liquid and dry the reservoir.
2. If the bathtub has been operating for 3 cycles in a row, a 10-minute break is recommended to increase the service life of the device.

3. Wipe the reservoir and bathtub body with a dry towel after use.
4. Store the bathtub in a dry, cool place.

## **9. Specification**

Name Ultrasonic bath

Model 4820

Set time modes 180 s — 280 s — 380 s — 480 s — 90 s

Power supply voltage and frequency AC 100 V ~50/60 HZ

AC 100–120 V ~50/60 HZ

AC 220–240 V ~50/60 HZ

Power consumption (maximum) AC 100 ~ 130 W

AC 100–120 V ~160 W

AC 220–240 V ~170 W

Ultrasonic frequency 42 kHz

Container material Stainless steel SUS304

Plastic basket material ABS 757

Container dimensions 250 x 150 x 80 mm

Container volume 2500 ml (MAX. 1200 ml)

Dimensions (length x width x height) 340 x 255 x 225 mm

Weight (NET) 2.50 kg

Weight (with packaging) 3.00 kg