



MECHANIC ULTRASONIC CLEANER
USER MANUAL

ULTRASONIC PRINCIPLE


Ultrasonic cleaning is on based on the cavitation effect caused by high frequency ultrasonic wave vibration signal in the fluid. Microscopic bubbles are formed, and they implode violently causing the cavitation which create an intense scrubbing action on the surface of the item being cleaned. The bubbles are small enough to penetrate microscopic crevices, cleaning them thoroughly and consistently. Ultrasonic cleaning is extremely effective at removing dirt and grime which would normally require tedious manual cleaning by hand. It has been used to clean a wide variety of instruments and mechanical parts such as carburetors, returning them to almost “like new” condition without damage to delicate parts.

APPLICATIONS

This list is almost endless. Provided the product is non porous and can normally be immersed in water almost anything can be thoroughly cleaned. Here are some examples: Jewellery especially gold, silver & platinum 、Electrical components、Gun and gun components etc. Ultrasonic cleaning is not recommended for the following gemstones: Opal, Pearl, Emerald, Tanzanite, Malachite, Turquoise, Lapis and Coral.

Preparation:

- 1.Carefully unpack the cleaner and remove all traces of packing materials from it. Visually inspect the cleaner for any parts that may have become loose or damaged during transit.
- 2.Place the cleaner on a flat, clean surface where the cooling fans will receive adequate ventilation and ensure all controls are set to off. Also ensure the drain tap is in the closed position.
- 3.Ensure the power lead is securely plugged into the cleaner and that no part of the lead is likely to come into contact with moisture.
- 4.Carefully fill at least 1/2 of the tank with a solvent solution. For demanding cleaning we recommend a small amount of washing up liquid, this will help increase the cleaning performance. The cleaner is now ready for use.

**Attention**

a) While the machine is working normally, ultrasonic and tank syntony gives a well-proportioned sound, and no shudder on the surface of the water, yet there is spray made by the tiny bubbles. If there are discontinuous surges, please add or release a little of washing solution in the tank, stopping the surges is better for the objects cleaning.

b) On the condition of making sure the cleaning object is cleaned, please run the machine discontinuously as far as possible(not more than 30min.),for long-time running will cause temperature increment of the case .

SPECIFICATIONS

Model	Tank Size (mm)	Volume (L)	Power (W)	FREQ. (KHz)	Heating (W)	Time (mins)	Temp. (° C)
YQ-701068	150×140×100	2	60	40	100	0-20	20-80
YQ-701069	240×140×100	3.2	120		100	0-20	20-80
YQ-701070	300×155×150	6.5	180		300	0-20	20-80
YQ-701071	300×240×150	10	240		300	0-20	20-80

1.Start up ultrasonic function:

- 1)Fill stainless steel tank with liquid.
- 2)Put the items to be cleaned inside the basket and put the basket inside the tank. (If no basket, place items gently at the bottom of the tank)
- 3)Plug the cleaner into grounded outlet.
- 4)Turn the “Timer switch” leftwards to “ON” for continuous working. Or turn the switch rightwards to set the 1-20 min working time. During working, you will hear the “ sizzling” voice ,that means the cleaner running properly.

NOTE: Do not run the cleaner continuously for more than one hour

2.Start up heating function:

Set temperature: Turn the “Heating switch” button for setting temperature 20℃-80℃. Please set the temperature switch to the degree that needed. Usually, the best results are within the 40℃ to 60℃.

3. Stop ultrasonic & heating process:

- 1)Switch “Ultrasonic” button to “OFF”, the cleaner will stop working, indicator light turn off. And then disconnect the power supply.
- 2) Switch “Heating” button to “OFF”, the heating function will stop.
- 3) Empty the tank and clean both the outside and inside of the cleaner with clean and dry cloth for next use .

NOTE: Do not pour water out until it’s cooling, Hot water will hurt you and damage the machine itself.

DIFFERENT WAYS OF CLEANING

Gennral Cleaning—use only tap water. Use warm temperature about 50℃ .
Enhanced Cleaning—add few drops of standard washing up liquid, liquid soap, or detergent into water, other non-acidic cleaning agents can also be used.
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 or request for tank made of specific grade of stainless steel like SUS304.

The cleaning solution will deteriorate in effectiveness over time and use. It is important to regularly change the fluid and carefully wash the inside of the cleaning tank in order to preserve the effectiveness and longevity of the cleaner. Do not use corrosive or abrasive cleaning products on the tank, which must be wiped down and dried before it can be re-connected to the electrical supply.
NOTE: If the machine starts to spark, smoke, smell of burnt electrics or displays any other fault the operator must immediately stop the machine, isolate the electrical supply and contact the supplier. Continued use is dangerous.

SAFETY PRECAUTIONS

This unit’s voltage is :Keep it away from children !
This device is not intended to use by individuals with restricted physical sensory or metal capacities or those with lack of experience or knowledge, include children, unless they are supervised by an individual who is responsible for their safety or have received training in operating the device .
Please read the following very carefully as failure to comply may invalidate your guarantee
1)DO NOT run the cleaner continuously for more than one hour at a time, as doing so can damage the internal components.
2)DO NOT operate the unit without fluid in the tank. Always ensure the fluid is no higher than the max mark, Always ensure there is a minimum depth of 7cm.
3)DO NOT drop any item into the tank as this may cause damage to the transducer. Always place the items gently into the tank and use the basket whenever possible.
4)The more items that you place in your cleaning bath the less efficient it will clean .It is not advised to overlap items. Always allow plenty of clear space between the items.
5)Do keep the lid on during use. This will prevent splashes and reduce evaporation of the fluid.
6)DO NOT touch the power plug with wet hands, especially when inserting or removing the plug.Never immerse the machine or power cord in water or other liquid.
7)DO NOT touch the unit if the machine has fallen into water during operation. Remove the power plug from the socket first.
8)DO NOT disassemble the machine, except by professionals.
9)UNPLUG the power source while filling or emptying the tank.
10)DO NOT spray water or liquid over the device and the control panel
11)DO NOT operate the cleaner without proper grounding.
12)DO NOT place the device on a soft surface, where the vents could be blocked.
13)Always turn the heater off after using as leaving it on can cause the fluid to evaporate and damage the internal components.
14)Upon completion of the cleaning cycle, turn the heater button off and isolate the machine from the electrical supply.
15)Take care when adding or removing items from the cleaning tank as the fluid is likely to be hot and displaced fluid can damage the internal components. Any displaced fluid must be dried up immediately.
16)In the event of failure/emergency, disconnect the mains supply by removing the plug from the mains socket.

H: 0-20 min timer can be adjustable
T: 20-80 °C temperature can be adjustable