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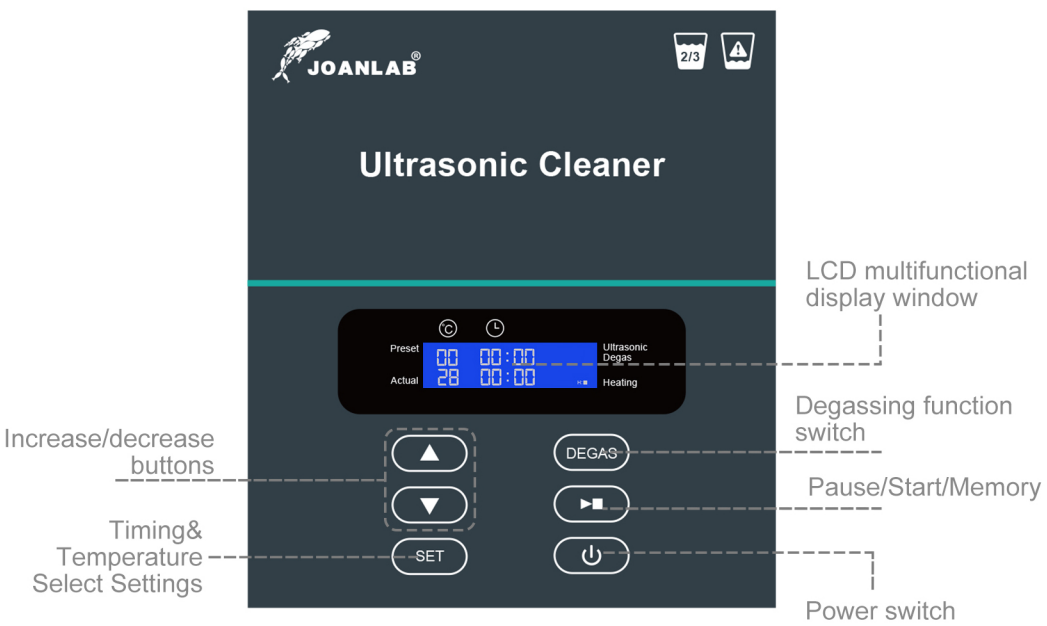


User manual

I: Product brief

JOANLAB ULTRASONIC CLEANER uses ultrasonic transducers to convert electrical signals into high-frequency vibrations and transmit them to the cleaning liquid through the stainless steel pot. Ultrasonic waves radiate forward in the cleaning liquid in a sparse and dense manner, causing the liquid to produce tens of thousands of small bubbles. These small bubbles form and grow in the negative pressure area formed by the longitudinal propagation of ultrasonic waves, and quickly close in the positive pressure area. This phenomenon is called the "cavitation effect". When the bubbles close, they can generate an instantaneous high pressure of 1000 atmospheres, just like a series of small "explosions" that continuously impact the surface of the workpiece, causing the dirt on the surface of the workpiece and in the gaps to quickly peel off, thereby achieving the purpose of cleaning the workpiece.

II: Product overview



III:Product introduction


(UC20D/UC30D/UC60D)

(UC100D/UC150D/ UC200D/UC300D)



IV:Correct use

/// Basic usage

Applications

> Widely used in household, commercial, industrial, etc., to clean dirt on the surface and gaps of workpieces.

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Usage

>Ultrasonic cleaner can be used for jewelry, watches and glasses,personal hygiene items,CDs, office supplies, metal items, spray guns,automotive/aviation parts, dental and operating room equipment, hypodermic needles printer inkjet cartridge heads and other items that need to be cleaned.

Using steps

> Before connecting the power supply, place the machine on a stable surface. Add water (or cleaning liquid) until theobject to be washed is completely immersed.
(Note: Do not operate when there is no water in the washing tank, otherwise it will cause damage to the machine)

> Connect the power cord to the port on the back and press the power button to turn on the machine. The machine is immediately in the state of setting the time and heating.
(*When the machine is turned on, the temperature in the tank will appear in the LCD actual temperature display window)

>Cleaning temperature: Press the (SET) button to enter the temperature setting function. Press the increase/decrease key to set the required heating temperature.
(*When the set temperature is higher than the actual temperature, the built-in heating plate will immediately start the heating function. The LCD display window shows the working status of the heating plate OFF/off, ON/on. When the heating reaches the required temperature, the heating will stop automatically. When it is lower than the set temperature, the heating will automatically start again. In this way, the liquid enters a constant temperature state)

> Timing function: Press the (SET) button to enter the timing setting function. Press the increase/decrease key to set the required cleaning time.

> Press the (▶■) key to start the ultrasonic cleanr.
(* LCD display window displays "U" to indicate that the ultrasonic cleanr is working and the cleaning time is counting down. After the operation is completed, the parameter setting will automatically jump back to the original data, which is called "memory function")

> Memory function and pause function: Each operation started by pressing the (▶■) key will be memorized. When the power cord is not disconnected, each time the machine is turned on or automatically stopped at a scheduled time, the original settings (time and temperature) will be restored. This makes it more convenient for users who frequently or repeatedly set the same settings. At the same time, (▶■) can also be used as a pause key. Press it when necessary, and then press it again to continue the operation after observing the cleaning effect.

> Degassing function: When the machine is working normally, press the (DEGAS) key to enter the degassing function of the ultrasonic cleaner, and the LCD displays "D".
Press the (DEGAS) key again to exit the degassing function, and the LCD displays "U".

> The (⏻) key is the power switch of the machine. When the machine is finished, press the (⏻) key to turn it off and turn off all the display lights.
The machine enters the shutdown state. If you do not use the machine for a long time, please unplug the power cord behind the machine.

> Empty the cleaning tank. When the machine is no longer in use, pour out the remaining cleaning liquid and wipe the cleaning tank dry.
Some models of machines are equipped with a drain tap to drain away the remaining cleaning fluid conveniently and safely.

⚠ Cleaning suggestions

> Ordinary cleaning: Use clean water. The water temperature can be set at about 40-50□.

> Enhanced cleaning: Add a few drops of detergent or alcohol, some neutral cleaning fluids can also be used.

> High-intensity cleaning: To remove dirt, carbon black, and rust from non-electroplated metal surfaces,Chemical liquids specially formulated for ultrasonic cleaning can be used.

(Note: Cleaning fluids with inappropriate pH strength will cause corrosion, rust, and even perforation of the washing tank or the body surface.To avoid these problems, please dilute the cleaning fluid to a weak pH value, or specially order a washing tank made of 316 grade stainless steel.)

⚠ Safety Precautions

> Too high water temperature and long cleaning time will damage the objects being washed and is not good for the life of the machine.

> When adding water, please make sure the drain tap is closed.

> During the cleaning process, adding a small amount of detergent will have a good cleaning effect.

> If the ultrasonic cleaner is not used for a long time, please unplug the rear power cord.

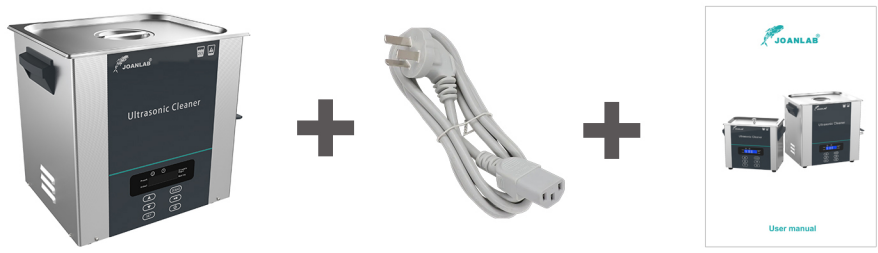
> Due to the high efficiency of ultrasonic cleaner, the temperature of the liquid will rise slowly without heating after a long cleaning time. This is normal;the reason is that the ultrasonic cleanr works efficiently and the liquid vibrates and heats up naturally.

V :Product data

Model	UC20D	UC30D	UC60D	UC100D	UC150D	UC200D	UC300D
Product	ultrasonic cleaner						
Picture							
Tank capacity(L)	2	3	6	10	15	20	28
Working frequency(kHz)	40	40	40	40	40	40	40
Number of vibration heads	1	2	3	4	6	6	8
Ultrasonic power(W)	60	120	180	240	360	360	480
Heating	YES	YES	YES	YES	YES	YES	YES
Degassing function	YES	YES	YES	YES	YES	YES	YES
Drainage valve	NO	NO	NO	YES	YES	YES	YES
Handle	NO	YES	YES	YES	YES	YES	YES
Inner groove(mm)	150*138*100	238*138*100	302*152*150	302*239*150	325*295*150	498*296*150	502*298*200
appearance((mm)	161*149*217	251*149*217	311*161*272	308*248*315	335*305*315	510*308*343	510*308*343

Delivery list

>Ultrasonic cleaner >Power cord >User manual



Product conformity certificate

Name: Ultrasonic cleaner

Model: ☐ UC20D ☐UC30D ☐UC60D ☐ UC100D
☐ UC150D ☐ UC200D ☐ UC300D

Production date: _____

Manufacturer: Joan Lab Equipment (Zhejiang) Co., Ltd.