



Cleaning made easy



## Dial Series

# ULTRASONIC CLEANER USER MANUAL

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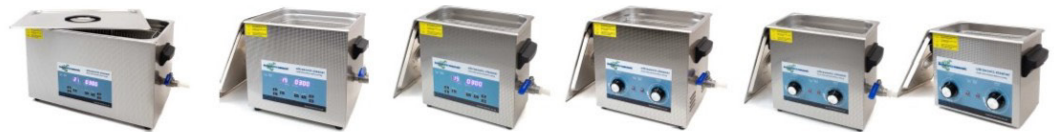
web: [bestultrasonic.co.uk](http://bestultrasonic.co.uk)





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## TECHNICAL SPECIFICATION



CAPACITY (Ltr)	CONTROL	DE-GAS	BASKET	TANK SIZE (external - mm)	TANK SIZE (internal - mm)	BASKET SIZE (mm)	FREQUENCY (Khz)	POWER (W)	No. TRANS-DUCERS	HEATING (W)	TEMP RANGE centigrade	TIMER RANGE Minutes	DRAIN
<b>BENCHTOP</b>													
2.0	DIAL	NO	YES	190 x 170 x 220	150 x 137 x 100	140 x 118 x 75	40	60	1	100	0 - 20	0 - 20	YES
2.0	DIGITAL / DEGAS	YES	YES	190 x 170 x 220	150 x 137 x 100	140 x 118 x 75	40	60	1	100	0 - 80	0 - 99	YES
3.0	DIAL	NO	YES	270 x 170 x 240	240 x 137 x 100	220 x 130 x 75	40	120	2	100	0 - 20	0 - 20	YES
3.0	DIGITAL / DEGAS	YES	YES	270 x 170 x 240	240 x 137 x 100	220 x 130 x 75	40	120	2	100	0 - 80	0 - 99	YES
6.0	DIAL	NO	YES	330 x 180 x 310	300 x 153 x 150	275 x 140 x 115	40	180	3	300	0 - 20	0 - 20	YES
6.0	DIGITAL / DEGAS	YES	YES	330 x 180 x 310	300 x 153 x 150	275 x 140 x 115	40	180	3	300	0 - 80	0 - 99	YES
10.0	DIAL	NO	YES	330 x 270 x 310	300 x 240 x 150	280 x 240 x 115	40	240	4	500	0 - 20	0 - 20	YES
10.0	DIGITAL / DEGAS	YES	YES	330 x 270 x 310	300 x 240 x 150	280 x 240 x 115	40	240	4	500	0 - 80	0 - 99	YES
15.0	DIAL	NO	YES	360 x 330 x 310	330 x 300 x 150	313 x 380 x 115	40	360	6	500	0 - 20	0 - 99	YES
15.0	DIGITAL / DEGAS	YES	YES	360 x 330 x 310	330 x 300 x 150	313 x 380 x 115	40	360	6	500	0 - 80	0 - 99	YES
22.0	DIAL	NO	YES	550 x 330 x 310	495 x 295 x 150	465 x 270 x 110	40	480	8	1000	0 - 20	0 - 20	YES
22.0	DIGITAL / DEGAS	YES	YES	550 x 330 x 310	495 x 295 x 150	465 x 270 x 110	40	480	8	1000	0 - 80	0 - 99	YES
27.0	DIAL	NO	YES	550 x 330 x 360	495 x 295 x 195	465 x 270 x 125	40	600	10	1000	0 - 20	0 - 20	YES
27.0	DIGITAL / DEGAS	YES	YES	550 x 330 x 360	495 x 295 x 195	465 x 270 x 125	40	600	10	1000	0 - 80	0 - 99	YES
39	DIAL / DIGITAL	YES	YES	630 x 450 x 520	530 x 320 x 230	450 x 280 x 140	40	720	12	1500	0-80	0 - 99	YES



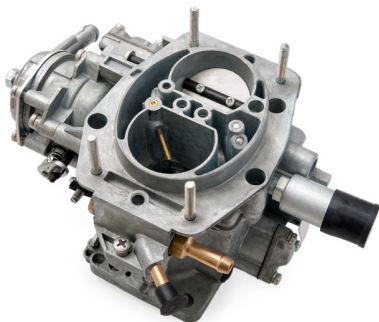
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## APPLICATIONS

Our ultrasonic cleaners have many applications in a wide range of industries. Professional machines are used in the dental, veterinary or tattoo professions for cleaning medical instruments. If you restore vintage cars or motorcycles, clean a carburettor with one of our larger professional ultrasonic cleaning tanks. If rifle shooting is your hobby, an ultrasonic cleaner can be used for brass rifle cases.



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### INTRODUCTION TO ULTRASONIC CLEANERS

Ultrasonic cleaning is based on the cavitation effect caused by high frequency ultrasonic waves generated in the cleaning fluid. Microscopic bubbles are formed, and they implode violently causing the cavitation which creates 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 can be used to clean a wide variety of instruments and mechanical parts such as carburettors, returning them to almost “like new” condition without damage to delicate parts.

### PREPARATION

Unpack the cleaner and check the contents.

- 1 x Ultrasonic tank**
- 1 x Steel basket**
- 1 x Steel Lid**
- 1 x UK Power lead**
- 1 x Drain hose + fitting (only on 6 ltr and above)**

Place the ultrasonic tank on a flat, clean surface where the cooling fan (only fitted on 6 ltr and above) will receive adequate ventilation. Ensure all controls are set to “off” and the drain tap (only on 6 ltr and above) is in the closed position.

Ensure the power lead is securely plugged into the cleaner and that no part of the lead is likely to come in to contact with moisture.

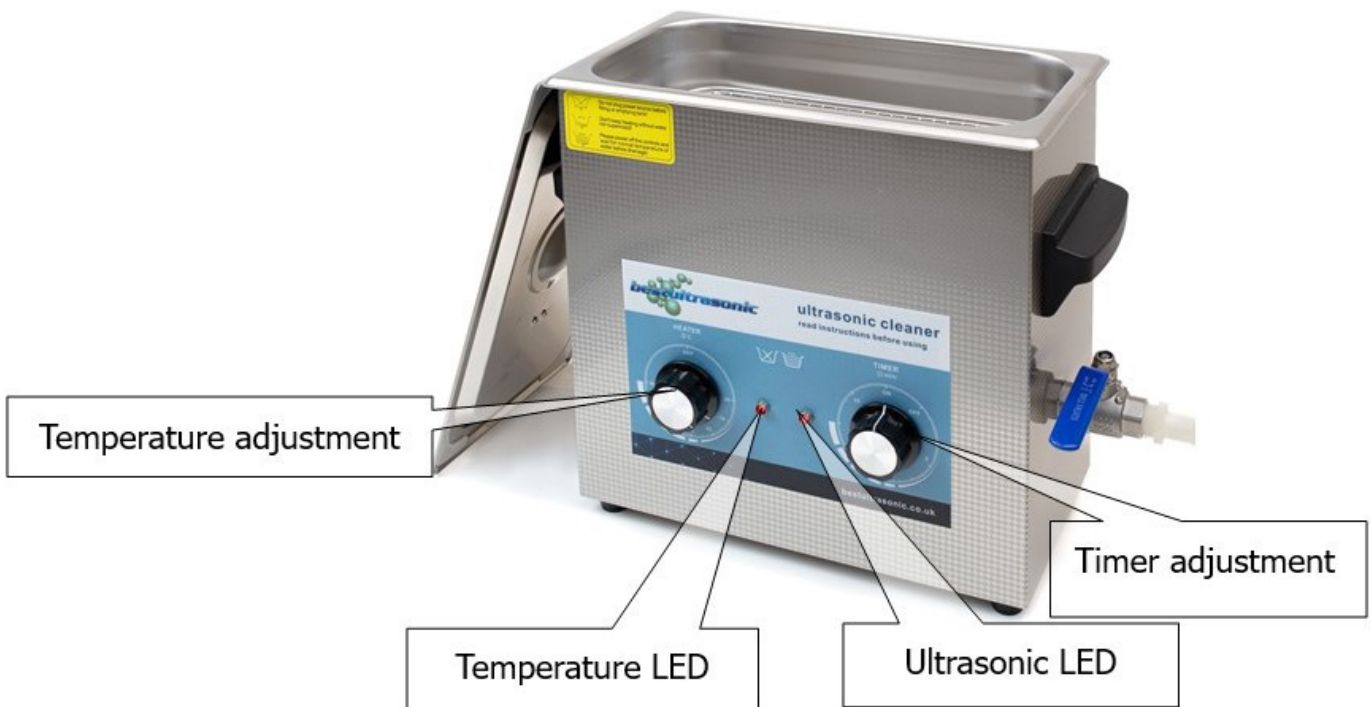
Fill at least 2/3 of the tank with cleaning solution.

The cleaner is now ready to use.

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## OPERATION

Fill stainless steel tank (minimum 2/3 full) with cleaning solution. Plug the cleaner into a power socket.

**Set the temperature.** Turn the temperature control dial to your required operating temperature.

**Set the timer.** Turn the timer control dial to your required cleaning time (example times are shown on the next page).

When working, you will hear the sizzling / buzzing sound which means the cleaner is running properly. After use, empty the tank and clean inside with clean dry cloth for next use.

After use, empty the tank and clean inside with clean dry cloth ready for the next use.

**Note:** Do not empty the hot water out until it's cooled, as this can damage the machine.

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## TOP TIPS

Don't try and fit too many things in the tank at the same time. The fluid needs space to carry the ultrasonic sound waves aroround your item.

Use the steel basket to keep items off the base of the tank. Or remove the basket and suspend your item into the tank, keeping it off the sides and base.

If you are cleaning carburettors, try to rotate the components when they are in the fluid. This will help remove any "air traps" and trapped bubbles.

Change the fluid when you can't see the bottom of the tank.

### How long does cleaning take?

Jewellery: 10 mnutcs

Carburettors: 20 - 40 minutes

Dental instruments: 15 minutes

Cycle chains and cassettes: 20 - 30 minutes

Don't leave the heaters switched on without the lid - the fluid will eveporate and the heaters burn out.

Don't skimp on cleaning fluid. Buy some proper cleaning solution that will give the best results from your new ultrasonic cleaner.

Not all jewellery is suitable for putting in an ultraonic cleaner. **CHECK FIRST.**

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### TROUBLE SHOOTING

#### **The temperature of the tank keeps going up.**

The action of generating ultrasonic waves also produces a certain amount of warmth. This raises the temperature of the liquid, even with the heaters turned off. This is normal. However, if the fluid temperature keeps rising when the ultrasonic are turned off, it could indicate a fault with the tank thermostat. Give us a call: 01706 950112.

#### **My ultrasonic cleaner is making a loud buzzing noise**

Ultrasonic cleaners do make a buzzing / hissing sound. It's a side effect of producing ultrasonic sound waves. The "white noise" indicates that means bubbles are being formed (at microscopic level) and it is these bubbles that do the cleaning.

#### **My ultrasonic cleaner won't turn on - no power**

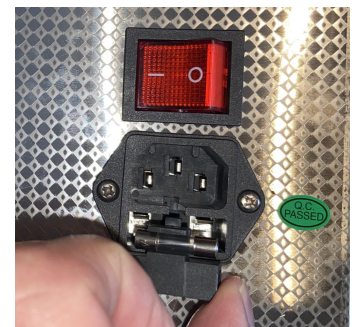
If the machine is "dead in the water" with nothing working at all, it could be a fuse that has blown.

Check the switch on the back of the machine is "turned on".

Check the fuse in the 13 amp mains plug.

Check the hidden fuse at the back of each machine (see the photos below)

The hidden fuse holder has a spare that can be swapped easily. To access the hidden fuse use a small flat bladed screwdriver to flip open the fuse cover.



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### SAFETY PRECAUTIONS



- **DO NOT** run the cleaner continuously for more than one hour at a time, as doing so might damage the internal components.
- **DO NOT** operate the without fluid in the tank. Always ensure the fluid is no higher than the max level mark. Ensure a minimum depth of two thirds fill from the bottom of the tank.
- **DO NOT** drop heavy items into the tank as this may damage the internal components. Always place items gently into the tank and use the basket whenever possible. 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.
- **Do** keep the lid on during use. This prevents splashes and reduces evaporation.
- **DO NOT** immerse the machine or power cord in water or other liquid.
- **DO NOT** touch the power plug with wet hands when inserting or removing it.
- **DO NOT** disassemble the machine, except by qualified technicians or electricians.
- **DO** unplug the machine source when filling or emptying the tank.
- **DO NOT** spray water or liquid over the device or the control panel.
- **DO NOT** place the tank on a soft surface, where the cooling vents could be blocked.
- **DO** turn the heater off after use as leaving it on can cause the fluid to evaporate and damage the internal components

Keep away from children. it's not a toy.

- On completion of the cleaning cycle, turn the heater off and isolate the machine from the mains supply. Take care when adding or removing items from the tank as the fluid is likely to be hot and displaced fluid can spill over the sides and damage internal components.

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For best results, use our specialist cleaning fluids



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