

Beta

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INSTRUCTIONS FOR USE

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ULTRASONIC CLEANER ITEM 1895 6-13-27

OPERATION MANUAL AND INSTRUCTIONS FOR ULTRASONIC CLEANER MANUFACTURED BY: **BETA UTENSILI S.P.A.**

Original documentation drawn up in ITALIAN.

CAUTION



IMPORTANT! READ THIS MANUAL THOROUGHLY BEFORE USING THE ULTRASONIC CLEANER. FAILURE TO COMPLY WITH THE SAFETY STANDARDS AND OPERATING INSTRUCTIONS MAY RESULT IN SERIOUS INJURY

Store the safety instructions with care and hand them over to the users.

PURPOSE OF USE







The ultrasonic cleaner can be used for the following purposes:

- Cleaning items from the following industries: aerospace, pharmaceutical, automotive, marine, filtration, moulding, plating & surface finishing, semiconductors etc.
- Cleaning mechanical parts: gears, EGR valves, bearings etc.

The ultrasonic cleaner must not be used for the following operations:

- Use on people or animals.
- Use for soft jewellery, pearls, ceramics, watches.
- Use at any temperatures other than those stated in the TECHNICAL DATA table.
- Use in environments containing explosive, or potentially explosive, atmospheres.
- Use in damp or wet environments; exposure to rain or snow.
- Use for any applications other than the stated ones.

WORK AREA SAFETY

-  Use the cleaner in a dry area, avoiding humidity.
-  Do not operate the cleaner in environments containing potentially explosive atmospheres, because sparks may be generated which can ignite the dust or fumes.
-  Avoid contact with live equipment, as electric shocks may be caused.
-  Keep children and bystanders away from your workplace while operating the cleaner. Other people may distract you.
-  Do not use the cleaner near flammable material.
-  Pay attention to the temperature of the solution.

PERSONNEL SAFETY

- Stay alert; watch what you are doing. Do not use the cleaner while tired or under the influence of drugs, alcohol, or medication.

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• Always use the following personal protective equipment:





- safety shoes
 - eye protection
 - protective workwear
 - protective gloves against physical agents
- During use the cleaner gets overheated. Do not touch the interior of the cleaner with your bare hands at this stage.
- Do not operate the power supply cable or the controls of the cleaner with damp or wet hands.
- Use the cleaner in well-aired, dry rooms.
- Do not inhale any harmful gases that may be released during the cleaning operations.
- Before replacing the cleaner, make sure that it has cooled to room temperature.

CLEANER SAFETY

- Periodically check that the cleaner and the power supply cable are free from defects.
- Do not use the cleaner if damaged, because electric shocks may occur.
- Do not modify the cleaner. This can reduce the effectiveness of safety measures and increase operator risk.
- Connect the power supply cable to the mains socket, checking that the mains voltage matches the voltage stated on the plate of the cleaner. (See TECHNICAL DATA table)
- Do not cover the cleaner while using it. Allow for an adequate amount of space for ventilation.
- Unplug the cleaner when not in use.
- Do not use the cleaner in humid or wet environments; do not expose it to rain. Wet and contaminated environments increase the risk of electric shocks.

PERSONAL PROTECTIVE EQUIPMENT TO WEAR WHILE OPERATING CLEANER

 Failure to observe the following warnings may result in physical injury and/or disease.

	ALWAYS USE PROTECTIVE GLOVES AGAINST PHYSICAL AGENTS WHILE OPERATING DEVICE
	ALWAYS WEAR EYE PROTECTION
	ALWAYS WEAR SAFETY SHOES
	ALWAYS WEAR PROTECTIVE CLOTHING

 Additional personal protective equipment to wear according to the values found in the environmental hygiene/risk analysis survey if the values exceed the limits under current regulations.

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WEAR PROTECTIVE MASK AGAINST PHYSICAL AGENTS

TECHNICAL DATA

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NOMINAL POWER SUPPLY VOLTAGE	220-240V ~ 50Hz	220-240V ~ 50Hz	220-240V ~ 50Hz
ULTRASONIC FREQUENCY	40000 Hz	40000 Hz	40000 Hz
HEATING POWER	300 W	400 W	500 W
HEATING TEMPERATURE	80 °C max	80 °C max	80 °C max
MAXIMUM TANK CAPACITY	6,0 l	13 l	27 l
MAXIMUM OPERATING TANK CAPACITY	4,5 l	8,5 l	19 l
OVERALL DIMENSIONS	330x180x310 mm	350x325x320 mm	530x330x380 mm
TANK DIMENSIONS	300x155x150 mm	325x235x145 mm	500x300x200 mm
SOCKET CABLE LENGTH (Schuko)	1,5 m	1,5 m	1,5 m
WEIGHT	6,7 kg	10,5 kg	16 kg

CLEANER USE AND CARE

- Place the cleaner on a flat, clean surface that can support its weight.
- Allow for a proper amount of space at the sides of the tank, so that the cooling fans can receive adequate ventilation.
- Do not operate the unit without fluid in the tank. Ensure that the drain tap is in the closed position. Fill the tank, ensuring that the fluid is not higher than the max. mark, and that there is a minimum depth of 7 cm.
- Use only water-based solutions. Do not use any detergent solutions to clean items.

⚠ Strong acid or alkaline cleaning solutions will cause corrosion, rust or puncture of tank or machine body. To overcome this problem, dilute to a mild pH solution.

- Do not drop any item into the tank, as this may cause damage. Always place the items to clean gently into the basket.
- Do not overlap items while cleaning; always allow plenty of clear space between the items to ensure efficient cleaning.
- Keep the lid on during use; this will prevent splashes and reduce evaporation of the fluid.
- Always remove the power plug from the socket before filling or emptying the tank.
- Take care when removing items from the cleaning tank, as the fluid is likely to be hot, and displaced fluid can cause damage.
- When cleaning is complete, empty the tank through the drain tap.

⚠ The fluid in the cleaner should be disposed of in an environmentally friendly way and in compliance with current laws.

- To clean the exterior of the tank, use a dry cloth. Always disconnect the cleaner from the power supply mains before cleaning it. Never use damp or wet cloths.

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KEY TO SYMBOLS/MODES

A: Temperature LED display.

B: Cleaning time LED display.

C: Heating:

- Press this key to start/stop heating (the device will display the room temperature when used for the first time).

D: Increase temperature:

- Press this key to set the temperature.
- Press once to increase the temperature by 1 °C; hold the key to increase the temperature by 10 °C.

E: Reduce temperature:

- Press this key to set the temperature.
- Press once to reduce the temperature by 1 °C; hold the key to reduce the temperature by 10 °C.

F: Degas: solutions with many air bubbles affect ultrasonic action.

- Using the "Degas" mode, before the cleaning process is started, allows air bubbles to be removed from the solution, which improves cleaning efficiency.

G: Soft: 60% power for delicate applications.

H: Normal: 100% power for normal applications.

I: Increase time:

- Press this key to set the cleaning time.
- Press once to increase time by 1 minute.
- Hold the key to increase time by 10 minutes.




J: Reduce time:



- Press once to reduce time by 1 minute.
- Hold the key to reduce time by 10 minutes.



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OPERATION GUIDELINES

Step	Action
1°	Select your cleaning solution: fill at least ½ of the tank with the solution. Do not exceed the filling line. NOTE: Do not use alcohol, petrol or flammable solutions. Doing so could cause a fire or explosion. Use only water-based solutions.
2°	Place the items into the basket; then slowly lower the basket into the tank. Do not allow the items to contact the tank bottom (the solution should cover the items).
3°	Plug the cleaner into a grounded outlet. Power on and turn on the power switch on the back side of the cleaner. NOTE: When the device is powered on, the room temperature will be displayed. The default time and temperature are those you set last time. (3 minutes' default time for initial use).
Timer 	Press + / - to set the cleaning time. When the timer counts down to 00:00, the ultrasonic cleaner will stop working. The cleaning time depends on the conditions of the item to clean, the type of detergent used and temperature. Cleaning cycles of 15÷30 minutes are usually enough to clean the items properly. NOTE: The device comes with the memory function and acquiesces in the time you set last time.
Heating 	Press the "Heating" key to start or stop heating. Press + / - to set the temperature. 1) To get the best cleaning result, the recommended solution temperature is 40÷60 °C. Warm water and detergent will soften grease and improve the cleaning result. 2) When setting the temperature, if the set temperature exceeds the room temperature, press the "Heating" key. Heating will be started and the indicator will turn on. If the set temperature is lower than the room temperature, heating will not be started, and the indicator will not turn on. 3) Heating will not shut off automatically; press the "Heating" key. NOTE: The device comes with the memory function and acquiesces in the temperature you set last time.
Degas mode 	After the timer and temperature have been set, press "Degas". The corresponding indicator will go on, and the device will work in "Degas" mode: - It will work for 6 seconds, stop for 2 seconds, then work for 6 seconds etc. The countdown will be displayed. The intermittent operation of ultrasonic power results in quicker degassing of the cleaning liquid. After the air bubbles have been removed from the cleaning liquid, to change mode, press "Soft" or "Normal". The "Degas" indicator will turn off, and the indicator for the "Soft" or "Normal" mode will turn on. If you want to stop working, just press "Soft" or "Normal" again. Both heating and ultrasonic cleaning will stop, and the corresponding indicator will turn off.

Step	Action
<p data-bbox="79 293 194 316">Normal mode</p> 	<p data-bbox="221 217 1048 292">After the timer and temperature have been set, press “Normal”. The corresponding indicator will turn on, and the device will work in “Normal” mode; it will work non-stop with full ultrasonic power and countdown display.</p> <p data-bbox="221 296 1048 344">If you want to switch to the other mode, just press “Degas” or “Soft”. The “Normal” indicator will turn off and the indicator for the “Degas” or “Soft” mode will turn on.</p> <p data-bbox="221 349 1048 397">If you want to stop working, press “Normal” again. Then both heating and ultrasonic cleaning will stop, and the corresponding indicator will turn off.</p>
<p data-bbox="94 491 180 513">Soft mode</p> 	<p data-bbox="221 408 1048 456">After the timer and temperature have been set, press “Soft”. The corresponding indicator will turn on, and the device will work in “Soft” mode.</p> <p data-bbox="221 461 1048 509">If you want to switch to the other mode, just press “ “Degas” or “Normal”; the “Soft” indicator will turn off, and the indicator for the “Degas” or “Normal” mode will turn on.</p> <p data-bbox="221 513 1048 561">If you want to stop working, press “Soft” again. Then both heating and ultrasonic cleaning will stop, and the corresponding indicator will turn off.</p> <p data-bbox="221 566 917 592">NOTE: The “Degas”, “Normal” and “Soft” modes cannot be operated simultaneously.</p>

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MAINTENANCE

Maintenance and repair jobs must be carried out by trained personnel. For such jobs, you can contact Beta Untensili S.P.A.'s repair centre.

DISPOSAL

The crossed-out wheelie bin symbol on the equipment or packaging means that the product should be collected separately from other types of urban waste at the end of its useful life.

Any user who is going to dispose of this tool can:

- deliver it to an appropriate collection facility for electronic or electrotechnical equipment;
- return it to the dealer upon purchase of a new, equivalent item of equipment;
- in case of a product for professional use only, contact the manufacturer which will arrange for the product to be properly disposed of.

Proper disposal of this product allows the raw materials contained in it to be reused and prevents damage to the environment or human health.

Illegal disposal of this product is a violation of the provision concerning the disposal of hazardous waste and will give way to the application of such fines as provided for under current regulations.



WARRANTY

This tool is manufactured and tested in accordance with current EU regulations. It is covered by a 12-month warranty for professional use or a 24-month warranty for nonprofessional use.

We will repair any breakdowns caused by material or manufacturing defects by fixing the defective pieces or replacing them at our discretion.

Should assistance be required once or several times during the warranty period, the expiry date of this warranty will remain unchanged.

This warranty will not cover defects due to wear, misuse or breakdowns caused by blows and/or falls.

In addition, this warranty will no longer be valid if any changes are made, or if the tool is damaged or sent to the customer service in pieces.

This warranty explicitly excludes any damage to people and/or things, whether direct or consequential.

EU DECLARATION OF CONFORMITY

We hereby declare, assuming full responsibility, that the described product complies with all the relevant provisions of the following Directives:

- Electromagnetic Compatibility Directive (EMC) 2014/30/EU;
- Low Voltage Directive (LVD) 2014/35/EU;
- Directive concerning the restriction of the use of certain hazardous substances in electric and electronic equipment (RoHS) 2011/65/EU.