

ASONIC USER MANUAL

ASONIC Ultrasonic Cleaner

INO series

Model: INO-30, INO-40, INO-80, INO-130, INO-300, INO-300XL,

Model: INO-400, INO-600, INO-1000, INO-2000, INO-3000, INO-Custom

Model: INO-2000Pneumatic, INO-3000Pneumatic, INO-7800Pneumatic

Company: ASONIC d.o.o.

Manual Version: 1.2

Date: 1.4.2026



TABLE OF CONTENTS

<u>SAFETY INSTRUCTIONS</u>	3
<u>INTENDED USE</u>	4
<u>IMPROPER USE</u>	4
<u>PRODUCT OVERVIEW</u>	5
<u>TECHNICAL SPECIFICATIONS</u>	6
<u>PACKAGE CONTENTS</u>	8
<u>UNPACKING</u>	8
<u>INSTALLATION</u>	8
<u>CONTROL PANEL OVERVIEW</u>	9
<u>OPERATING INSTRUCTIONS</u>	13
<u>CLEANING GUIDE</u>	14
<u>RECOMMENDED CLEANING SOLUTIONS</u>	16
<u>DEGASSING FUNCTION</u>	19
<u>HEATING FUNCTION</u>	20
<u>MAINTENANCE</u>	20
<u>CLEANING THE DEVICE</u>	22
<u>TROUBLESHOOTING</u>	23
<u>TECHNICAL SUPPORT</u>	25
<u>WARRANTY & DISPOSAL</u>	25

SAFETY INSTRUCTIONS

Read this manual carefully before operating the device.

WARNING:

Working time: IND-30 to IND-300 is working time max 8h; IND-400 to IND-7800 working time 24h/7.

The cleaner can work up to **60 minutes** continuously, after that it has to rest for at least 30 minutes!

Do not throw objects into the tank or hit the appliance as it may cause damage.

The use of an ultrasonic cleaner without liquid is prohibited as the appliance will get damaged.

To heat the liquid, it is necessary to turn on both heating and ultrasound and cover the tank with a lid.

Do not immerse the device in water.

Disconnect the device from power before maintenance.

This device is not intended to be used by individual with restricted physical, sensor or mental capacities or those with lack of experience or knowledge, including children, unless they are supervised by an individual who is responsible for their safety or have received proper training for operating the device.

Store the appliance and package material out of reach of children!

1. Always connect ultrasonic cleaner to AC240V/50Hz, AC 120V 50/60Hz electricity outlet.
2. **Warning:** This device works at high voltage, do not use it in humid locations to avoid electric shock.
3. Handle device with care. Do not hit or throw the device to prevent damage and impairment of performance and life span of it.
4. Perform cleaning of the device only after the power supply is disconnected.
5. Do not open the casing of the appliance to avoid any hazardous situations, as it works at high voltage.
6. Do not use the ultrasonic cleaner if the power plug or power cord are damaged.
7. Remove the power plug from the socket before cleaning the appliance or filling the liquid, if the device is not going to be used for a long time or if a malfunction occurs.
8. Do not leave the appliance plugged in electricity unattended.
9. Do not repair or make changes to the ultrasonic cleaner on your own. Always call authorized service if there is a problem with the appliance.
10. During normal operation of ultrasonic generator, a consistent sound is resulted from the harmonic oscillation of the tank body impacted by ultrasound waves. In case of discontinuous oscillation, increase or reduce level of the cleaning fluid by a small quantity to achieve consistent sound, which will facilitate better cleaning of the item.
11. Long-term consecutive operation of ultrasonic cleaner may result in high temperature inside the unit and accelerate aging of electronic components in it. Comply with time limit recommendations.
12. Do not use inflammable cleaning agents in the tank!
13. Do not operate ultrasonic cleaner without fluid in the tank, as it may result in fire.
14. **Always fill at least 2/ 3 of the tank and maximum up to 2 cm below the upper edge of the tank.**
15. Do not place the device on a soft or other surface where ventilation will be blocked.
16. Prevent splash of cleaning fluid or water into the ultrasonic cleaner body, as it may cause short circuiting, and thereby damage the appliance.
17. Any foreign matter falling into the tank should be taken out immediately.
18. Before changing or discharging the cleaning fluid, make sure the fluid is at normal temperature and the ultrasonic wave generator is shut down and the power supply is disconnected.
19. Clean the tank and casing of the ultrasonic cleaner with soft dry cloth after disconnecting the power cable. Remove any dirt in the tank after each operation.

INTENDED USE

The ultrasonic cleaner is designed for the efficient and gentle cleaning of various objects using ultrasonic technology. The device generates high-frequency ultrasonic waves in a liquid cleaning solution, creating microscopic bubbles that remove contaminants such as dirt, grease, oil, dust, and other residues from surfaces and hard-to-reach areas.

This ultrasonic cleaner is suitable for cleaning items made of metal, glass, ceramic, and certain durable plastics that are resistant to ultrasonic cleaning processes.

Typical applications include cleaning of the following items:

- Jewelry such as rings, necklaces, bracelets, and earrings
- Eyeglasses and optical components
- Watches and watch parts (excluding non-waterproof watches)
- Dental and medical instruments
- Laboratory instruments and equipment
- Small metal parts and mechanical components
- Coins, metal tools, and precision parts
- Electronic components that are suitable for ultrasonic cleaning

The device is intended for use in households, workshops, laboratories, jewelry stores, watch repair shops, dental practices, and similar environments where efficient cleaning of small objects is required.

The ultrasonic cleaner must always be operated with an appropriate cleaning liquid such as water, water-based detergents, or approved ultrasonic cleaning solutions.

IMPROPER USE

This device must not be used for purposes other than those described in this manual. Improper use may result in damage to the device, damage to the items being cleaned, or personal injury.

The ultrasonic cleaner must **not** be used for cleaning:

- Living organisms such as animals or plants
- Explosive, flammable, or highly reactive materials
- Volatile chemicals such as gasoline, alcohol, or solvents
- Items that are not resistant to ultrasonic vibrations
- Fragile stones or delicate materials that may be damaged by ultrasonic cleaning

The manufacturer assumes no responsibility for damage caused by improper or unintended use of the device.

PRODUCT OVERVIEW



1. Lid
2. Stainless Steel Tank
3. Basket
4. Power cable
5. Drain Valve (in some models)
6. Control Panel with timer, heating control and adjustable ultrasonic power (0–100%)
7. Power Switch (ON/OFF)

TECHNICAL SPECIFICATIONS

Specifications	INO-30	INO-40	INO-80	INO-130
Ultrasonic power	240 W	360 W	480W	720 W
Ultrasonic frequency	40kHz	40kHz	40kHz	40kHz
Number of transducers	2	3	4	6
Timer (min)	Jan.99	Jan.99	Jan.99	Jan.99
Max temperature	80°C	80°C	80°C	80°C
Heater power	500 W	500 W	500 W	1000 W
Max tank volume	2,5 lit.	4 lit.	8 lit.	13 lit.
Tank thickness	1 mm	1 mm	1 mm	1 mm
Basket dimensions (WxDxH)	145×130×80 mm	230×130×80 mm	280×135×100 mm	270x210x90 mm
Tank dimensions (WxDxH)	150 ×140×120 mm	240 ×140×120 mm	300×150×180 mm	300×240×180 mm
Unit dimensions (WxDxH)	230×220×270 mm	320×220×270 mm	380×230×370 mm	400×340×370 mm
Package dimensions (WxDxH)	340×340×400 mm	440×330×400 mm	520×350×500 mm	560x550x450 mm
Discharge valve	/	/	YES	YES
Degas	YES	YES	YES	YES
Power plug	Type F, 220V/50Hz	Type F, 220V/50Hz	Type F, 220V/50Hz	Type F, 220V/50Hz
Net. weight	5,3 kg	6,9 kg	10,25 kg	15,5 kg
Warranty (years)	2 years	2 years	2 years	2 years

Specifications	INO-180	INO-300	INO-300XL	INO-400
Ultrasonic power	960 W	1440 W	700 W	720 W
Ultrasonic frequency	40kHz	40kHz	28kHz	28kHz
Number of transducers	8	12	10	12
Timer (min)	1 - 99	Jan.99	Jan.99	1 - 99 min
Max temperature	80°C	80°C	80°C	80°C
Heater power	1000 W	1000 W	1500 W	1500 W
Max tank volume	18 lit.	30 lit.	29 lit.	39 lit.
Tank thickness	1 mm	1 mm	1 mm	1,5 mm
Basket dimensions (WxDxH)	270x295x90	460x265x140 mm	890×190×115 mm	510x300x100 mm
Tank dimensions (WxDxH)	330×300×180 mm	500×300×200 mm	900×205×160 mm	530x320x230 mm
Unit dimensions (WxDxH)	430×400×410 mm	600×400×410 mm	940×240×340 mm	630x375x560 mm
Package dimensions (WxDxH)	528x580x590	750x520x580 mm	1100×350×500 mm	660×430×455 mm
Discharge valve	YES	YES	YES	YES
Degas	YES	YES	/	YES
Power plug	Type F, 220V/50Hz	Type F, 220V/50Hz	Type F, 220V/50Hz	Type F, 220V/50Hz
Net. weight	21,5 kg	22 kg	23 kg	29 kg
Warranty (years)	2 years	2 years	2 years	2 years

Specifications	INO-600	INO-1000	INO-2000	INO-3000
Ultrasonic power	1080 W	1440 W	2520 W	3600 W
Ultrasonic frequency	28kHz	28 kHz	28kHz	28kHz
Number of transducers	18	24	42	60
Timer (min)	Jan.99	1 – 99	1 - 99 min	1 - 99 min
Max temperature	80°C	80°C	80°C	up to 80°C
Heater power	1500 W	3000 W	6000 W	9000 W
Max tank volume	57 lit.	95 lit.	200 lit.	300 liters
Tank thickness	2,0 mm	2,0 mm	2,0 mm	2,5 mm
Basket dimensions (WxDxH)	460×310×120 mm	570×370×400 mm	720×520×500 mm	950×650×160 mm
Tank dimensions (WxDxH)	500×330×350 mm	600×400×400 mmx	750×550×500 mm	1000×695×480 mm
Unit dimensions (WxDxH)	660×490×750 mm	730×530×700 mm	890×690×800 mm	1160×860×910 mm
Package dimensions (WxDxH)	720×550×810 mm	890×630×840 mm	1060×790×890 mm	1220×920×970 mm
Discharge valve	YES	YES 1"	YES 1"	YES, 1"
Degas	/	/	/	/
Power plug	IEC309 (5pin, 380V)	IEC309 (5pin, 380V)	IEC309 (5pin, 380V)	IEC309 (5pin, 380V)
Net. weight	53 kg	80 kg	125 kg	180 kg
Warranty (years)	2 years	2 years	2 years	2 years

Specifications	INO-2000Pneumatic	INO-3000Pneumatic	INO-7800Pneumatic
Ultrasonic power	2520 W	3600 W	9360 W
Ultrasonic frequency	28kHz	28kHz	28kHz
Number of transducers	42	60	156
Timer (min)	Jan.99	1 - 99 min	1 - 99 min
Max temperature	80°C	80°C	80°C
Heater power	6000 W	9000 W	9000 W
Max tank volume	200 lit.	300 lit.	780 lit.
Tank thickness	2,0 mm	2,5 mm	2,5 mm
Basket dimensions (WxDxH)	680×490×300 mm	930×630×300 mm	1330×740×500 mm
Tank dimensions (WxDxH)	750×550×500 mm	1000×695×480 mm	1400×800×700 mm
Unit dimensions (WxDxH)	1350×1130×1800 mm	1600×1290×1800 mm	2000×1400×2000 mm
Package dimensions (WxDxH)	1500×1330×2000 mm	1850×1360×1950 mm	2250×1470×2150 mm
Discharge valve	YES 1"	YES 1"	YES 1"
Max weight for lift	150 kg	200	400 kg
Filtration system	20µm	20µm	20µm
Oil Skimmer	YES	YES	YES
Power plug	IEC309 (5pin, 380V)	IEC309 (5pin, 380V)	IEC309 (5pin, 380V)
Net. weight	390 kg	470 kg	700 kg
Warranty (years)	2 years	2 years	2 years

PACKAGE CONTENTS

Check that the following items are included:

- Ultrasonic Cleaner
- Stainless Steel Basket
- Lid
- Power Cable
- User Manual

UNPACKING

Carefully remove the ultrasonic cleaner and all included accessories from the packaging. Handle the device with care during unpacking to avoid accidental damage.

After removing the packaging materials, place the device on a stable and flat surface. Ensure that all protective materials, plastic films, and transport protections have been removed from the device and accessories.

Inspect the ultrasonic cleaner and all supplied components carefully for any visible signs of damage that may have occurred during transportation. Check the housing, control panel, power cable, plug, and accessories such as the basket and lid. Verify that all items listed in the **Package Contents** section are present and in good condition.

If you notice any damage to the device or if any components are missing, **do not operate the ultrasonic cleaner**. Using a damaged device may result in malfunction or safety hazards.

In such cases, contact your supplier immediately for further instructions. Retain the original packaging materials, as they are required for returning or transporting the device safely.

It is recommended to keep the original packaging for future storage or transportation of the device.

INSTALLATION

Before installing and operating the ultrasonic cleaner, ensure that the device is placed in a suitable environment and installed correctly. Proper installation helps ensure safe operation, optimal cleaning performance, and long service life of the device.

Place the ultrasonic cleaner on a **stable, flat, and level surface** that is capable of supporting the weight of the device when the tank is filled with liquid. The surface should be dry and resistant to water or cleaning solutions that may occasionally spill during use.

Ensure that the device is positioned in a well-ventilated area. Adequate airflow around the unit helps prevent overheating and allows the device to operate efficiently. It is recommended to leave **at least 10–15 cm of free space** around the sides and rear of the cleaner to allow proper ventilation.

Do not place the ultrasonic cleaner near heat sources such as radiators, stoves, or direct sunlight. Avoid installing the device in areas with excessive humidity, dust, or vibrations, as these conditions may negatively affect the performance and lifespan of the unit.

Before connecting the device to the power supply, make sure that the **voltage indicated on the device label matches the local electrical supply**. Using an incorrect voltage may damage the device and create safety risks.

Connect the power cable to a **properly grounded electrical outlet** that complies with local electrical safety regulations.

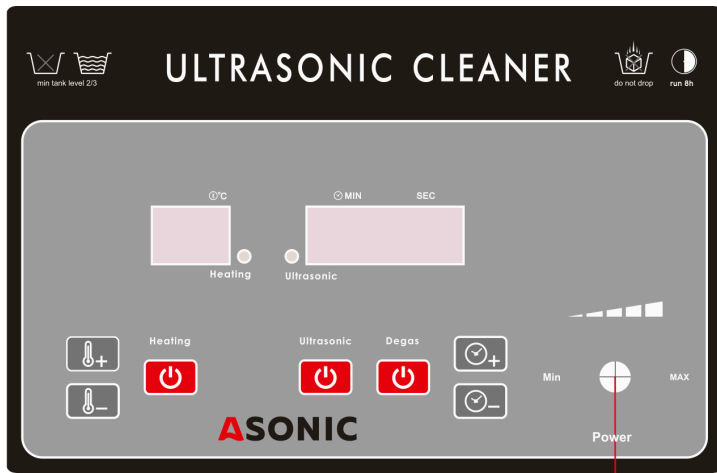
The outlet should be easily accessible so that the device can be quickly disconnected from the power supply if necessary.

Do not use extension cords or power strips that are not rated for the device's electrical load. Ensure that the power cable is positioned so that it cannot be pinched, damaged, or become a tripping hazard.

After installation is complete, the ultrasonic cleaner is ready for filling and operation as described in the **Operating Instructions** section.

CONTROL PANEL OVERVIEW

Model: INO-30 to INO-7800



Button descriptions:

- Time + : Set time for ultrasonic work “up”
- Time - : Set time for ultrasonic work “down”
- Ultrasonic ON/OFF : Start / Stop ultrasonic cleaning
- Light Ultrasonic : Ultrasonic is working
- Power control : Set power from min(0) to max(100%)
- Degas function ON/OFF : Start / Stop
- Temperature + : Set temperature “up” max 80C
- Temperature - : Set temperature “down”
- Temperature ON/OFF : Heating start / stop

Model: INO-400 to INO-3000

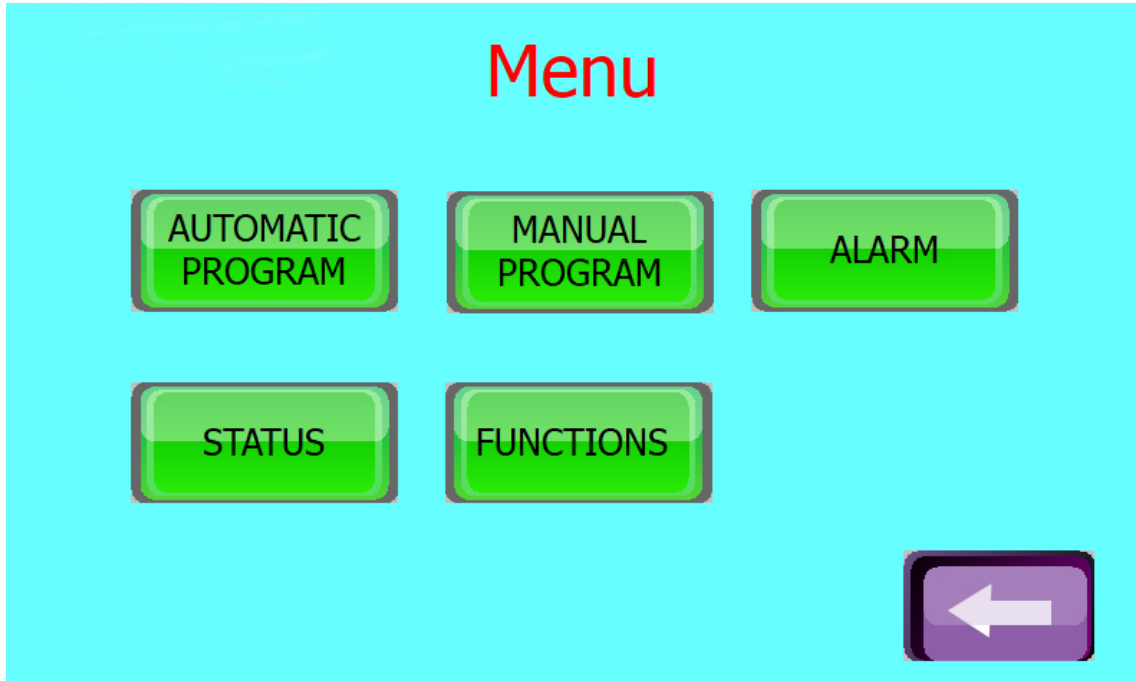


Button descriptions:

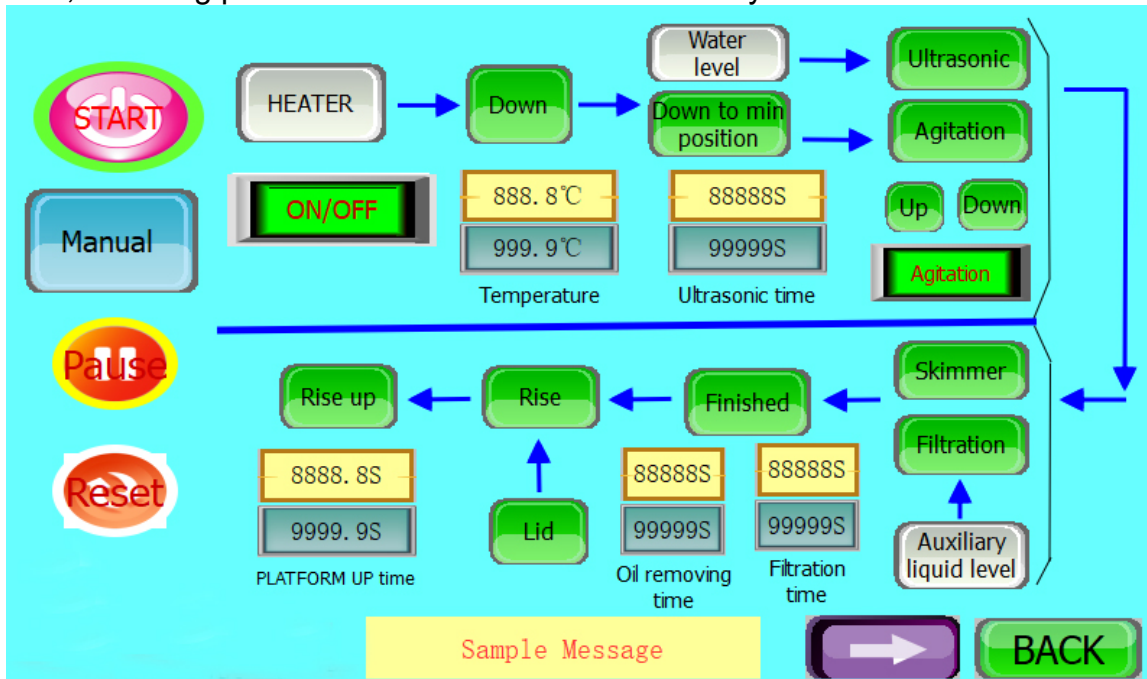
- ON/OFF : Main switch
- Time + : Set time for ultrasonic work “up”
- Time - : Set time for ultrasonic work “down”
- Ultrasonic ON/OFF : Start / Stop ultrasonic cleaning
- Light Ultrasonic : Ultrasonic is working
- Power control: Set power from min(0) to max(100%)
- Sweep function ON/OFF : Start / Stop
- Temperature + : Set temperature “up” max 80C
- Temperature - : Set temperature “down”
- Temperature ON/OFF : Heating start / stop

Model: INO-2000Pneumatic, INO-3000Pneumatic, INO-7800Pneumatic,
INO-Custom Pneumatic

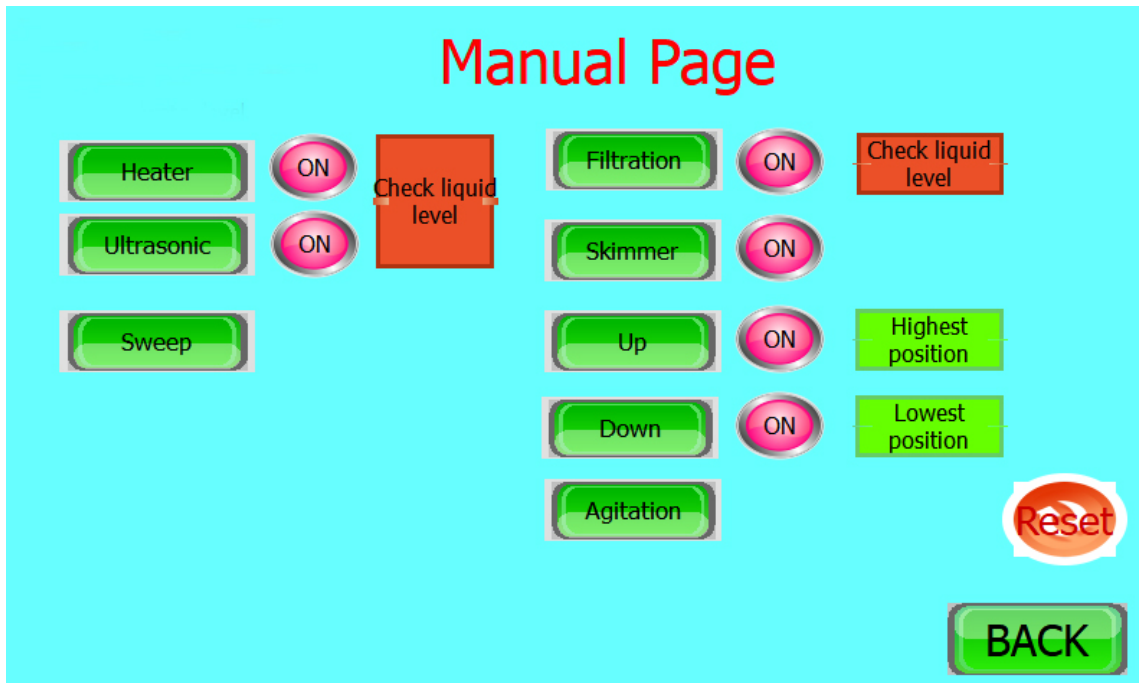
START menu - Chose which application is suitable for work AUTOMATIC, MANUAL. ALARM, STATUS, FUNCTIONS



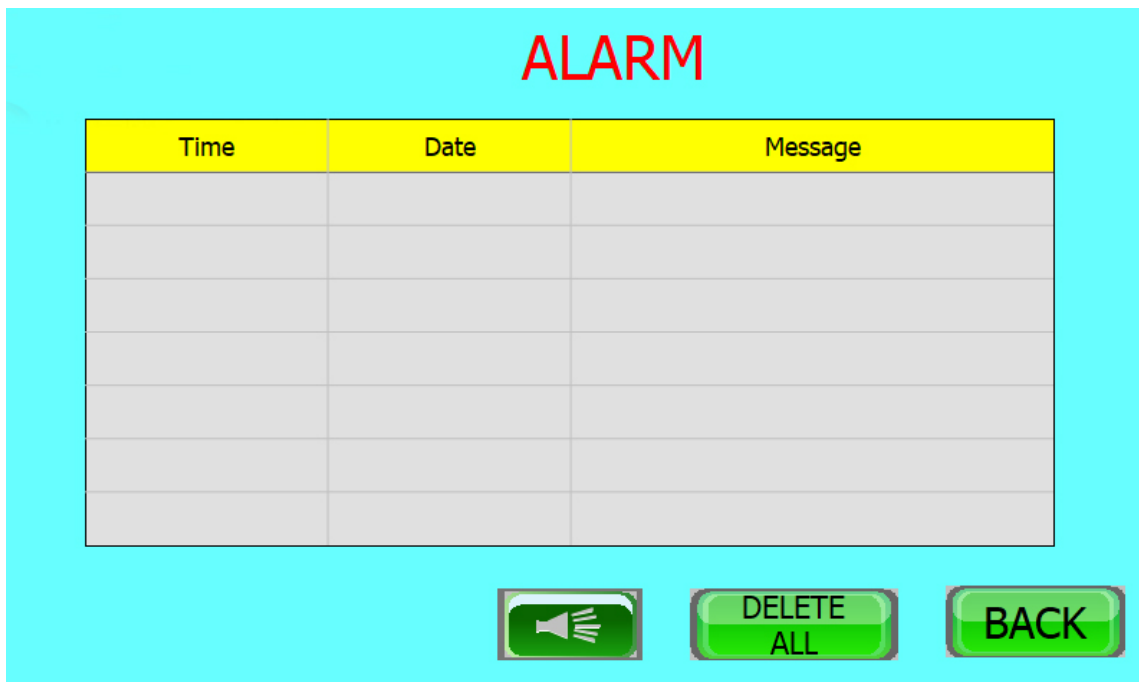
AUTOMATIC PROGRAM– units can be prograded to work automatically every circle. First chose if heater should be ON or OFF than set temperature, timer for ultrasonic cleaning, Agitation moves platform up and down when cleaning, set filtration time, oil removing time, PLATFORM UP time time, how long platform should wait before another cycle.



MANUAL PROGRAM – turn on which function need to work and than turn them off



ALARM – shows all alarms



STATUS of all functions

STATUS

X0 Main tank low water level	Y0 Heating	Y11 N/A
X1 Alarm filter pump	Y1 Ultrasonic	Y12 N/A
X2 Auxiliary tank low water level	Y2 Filter pump	Y13 N/A
X3 Filter water flow switch	Y3 Oil skimmer	Y14 N/A
X4 Platform on highest position	Y4 Platform moving UP	Y15 N/A
X5 Platform on highest position for agitation	Y5 Platform moving DOWN	Y16 N/A
X6 Platform on lowest position for agitation	Y6 ALARM	Y17 N/A
X7 Lid opened	Y7 N/A	
X10 X10-X17 N/A	Y10 N/A	

BACK

SPECIFICATIONS – set standard values of the functions

88888S	8888.8S
99999S	9999.9S
Ultrasonic time	Pick-up time
88888S	88888S
99999S	99999S
Filtration time	Oil removing time

999.9°C	999
Temperature range	Temperature control cycle/0.1 second
999.9°C	9.99
Temperature compensation	Temperature coefficient
Output duty cycle factor	
888.8°C	
999.9°C	
Temperature	

BACK

OPERATING INSTRUCTIONS

Follow the instructions below to operate the ultrasonic cleaner safely and effectively. Proper operation ensures optimal cleaning performance and helps extend the lifespan of the device.

Before starting the cleaning process, make sure the ultrasonic cleaner has been properly installed according to the **Installation** section of this manual.

1. FILL THE TANK WITH LIQUID

Open the lid and fill the stainless steel tank with an appropriate cleaning liquid. In most cases, clean water can be used, but for better cleaning results it is recommended to use a suitable ultrasonic cleaning solution or mild detergent.

Ensure that the liquid level is within the **minimum and maximum level markings** inside the tank, keep in mind that you need to account for the volume of the parts being placed inside, as they will raise the liquid level. Do not operate the device without liquid in the tank, as this may damage the ultrasonic transducers.

2. PLACE ITEMS INTO THE BASKET

Place the items to be cleaned into the supplied basket. The basket helps protect both the objects and the ultrasonic tank from damage.

Avoid placing items directly on the bottom of the tank. Ensure that the objects are fully submerged in the cleaning liquid and that they do not overlap excessively, as this may reduce cleaning efficiency.

If necessary, separate items so that ultrasonic waves can reach all surfaces.

3. CLOSE THE LID

After placing the items in the basket, close the lid carefully. The lid helps reduce noise during operation and prevents contamination or splashing of the cleaning liquid.

Although the device can operate without the lid, it is recommended to keep the lid closed during the cleaning process.

4. SET TIMER AND TEMPERATURE (IF AVAILABLE)

If the ultrasonic cleaner is equipped with a timer and heating function, select the appropriate cleaning time and temperature using the control panel.

Typical cleaning times range from **2 to 10 minutes**, depending on the type and level of contamination of the objects.

For improved cleaning performance, the liquid temperature can be set between **40°C and 60°C**, which enhances the ultrasonic cleaning effect for many applications.

5. START THE CLEANING PROCESS

Press the **Start** or **Power** button on the control panel to begin the cleaning cycle. The ultrasonic generator will start producing ultrasonic waves that create microscopic cavitation bubbles in the liquid. These bubbles gently remove dirt, grease, and other contaminants from the surfaces of the items.

During operation, a slight buzzing sound may be heard. This is normal and indicates that the ultrasonic cleaner is functioning correctly.

6. END OF CLEANING CYCLE

Once the timer reaches the selected cleaning time, the device will automatically stop or switch off depending on the model. Carefully open the lid and remove the basket from the tank.

Rinse the cleaned items with clean water if necessary and dry them with a soft cloth or allow them to air dry.

After completing the cleaning process, it is recommended to empty the tank and wipe it dry if the device will not be used again soon.

For heavily contaminated items, the cleaning cycle may be repeated if required.

CLEANING GUIDE

The ultrasonic cleaner can be used to clean a wide variety of objects quickly and efficiently. Ultrasonic waves create microscopic cavitation bubbles in the cleaning liquid that remove dirt, grease, dust, polishing compounds, and other contaminants from surfaces and hard-to-reach areas.

The required cleaning time depends on several factors, including:

- the type of item being cleaned
- the amount, strength and type of contamination
- the cleaning solution used
- the temperature of the liquid
- the ultrasonic power of the device

The cleaning times listed below are **general recommendations**. Heavily contaminated items may require longer cleaning times or several cleaning cycles.

RECOMMENDED CLEANING DURATIONS

Item Type	Recommended Time
Jewelry	3–5 minutes
Eyeglasses	2–3 minutes
Watches (water-resistant parts)	3–5 minutes
Coins	5–8 minutes
Dental instruments	5–15 minutes
Laboratory instruments	5–20 minutes
Metal tools	10–20 minutes
Carburetor parts	20–45 minutes
Small mechanical components	5–10 minutes

JEWELRY

Ultrasonic cleaners are widely used in jewelry stores and repair workshops to remove oils, polishing residues, dust, and skin deposits from jewelry. The ultrasonic waves penetrate small crevices and intricate designs that are difficult to clean manually.

Most jewelry items can be cleaned within **3 to 5 minutes**. For best results, use warm water with a mild detergent or a specialized ultrasonic jewelry cleaning solution.

However, certain delicate gemstones should **not** be cleaned ultrasonically, such as:

- opals, pearls, emeralds, coral, turquoise, etc.

These stones may be damaged by ultrasonic vibrations.

EYEGASSES AND OPTICAL ITEMS

Eyeglasses accumulate dirt, skin oils, cosmetic residues, and dust during everyday use. Ultrasonic cleaning is highly effective for restoring clarity and cleanliness.

Typical cleaning time is **2 to 3 minutes**. After cleaning, rinse the glasses with clean water and dry them using a soft lint-free cloth.

WATCHES AND WATCH PARTS

Ultrasonic cleaning is often used by watchmakers to clean metal watch components.

Typical cleaning time is **3 to 5 minutes**.

Important:

Complete watches should only be cleaned ultrasonically if they are **fully waterproof**. Watch movements should never be placed in the ultrasonic cleaner unless handled by professional technicians.

COINS AND COLLECTIBLES

Ultrasonic cleaners can be used to remove dirt, oxidation residues, and contaminants from coins and collectible metal objects.

Cleaning time typically ranges from **5 to 8 minutes**, depending on the level of contamination.

Note: Some collectible coins may lose value if improperly cleaned. Always verify cleaning suitability before cleaning valuable items.

DENTAL AND MEDICAL INSTRUMENTS

Ultrasonic cleaners are widely used in dental clinics and medical laboratories for cleaning instruments prior to sterilization.

Cleaning time usually ranges between **5 and 10 minutes**, depending on the level of contamination and the cleaning solution used.

Ultrasonic cleaning improves hygiene by removing biological residues and contaminants from hard-to-reach areas.

LABORATORY EQUIPMENT

Ultrasonic cleaners are also suitable for cleaning laboratory equipment and precision tools. Typical cleaning time: **5 to 10 minutes**.

Always ensure that laboratory chemicals used in cleaning solutions are compatible with ultrasonic cleaning.

METAL PARTS AND MECHANICAL COMPONENTS

Ultrasonic cleaners are frequently used in workshops and industrial environments for cleaning small metal parts and mechanical components.

These items may require **5 to 15 minutes** of cleaning. Parts contaminated with grease or oil may require longer cleaning times and specialized ultrasonic cleaning solutions.

Heavily contaminated components such as carburetors or engine parts may require **15 to 30 minutes** of ultrasonic cleaning.

ADDITIONAL CLEANING RECOMMENDATIONS

For best cleaning performance:

- Always ensure that the objects are **fully submerged** in the cleaning liquid.
- Use the **supplied basket** to prevent contact between the items and the tank bottom.
- Avoid overcrowding the basket so that ultrasonic waves can reach all surfaces.
- Use **warm cleaning liquid (40–60°C)** when possible to improve cleaning efficiency.
- Repeat the cleaning cycle if necessary for heavily contaminated items.

After cleaning, rinse the objects with clean water and dry them thoroughly.

RECOMMENDED CLEANING SOLUTIONS

For optimal cleaning performance, it is important to use appropriate cleaning liquids in the ultrasonic cleaner. While clean water can remove light dust and loose particles, the addition of suitable cleaning solutions significantly improves the removal of grease, oils, oxidation, polishing compounds, and other stubborn contaminants.

Different materials and types of contamination require different cleaning solutions. Always ensure that the cleaning solution used is compatible with both the **items being cleaned** and the **ultrasonic cleaning process**.

The following solutions are commonly used in ultrasonic cleaning applications.

SPECIALIZED ULTRASONIC CLEANING CONCENTRATES

AS-GEN - GENERAL PURPOSE & HEAVY DUTY

Is designed for general-purpose cleaning of heavily contaminated items, effectively removing grease, oils, and stubborn dirt, especially when used in an ultrasonic cleaner. It is safe for stainless steel, aluminum, brass, copper, plastics, glass, and ceramics.

Solution is often used in workshops, industrial environments, and service applications, for cleaning tools, machine parts, components, and various heavily soiled items. A few drops of the detergent added to warm water are usually sufficient to improve cleaning performance.

AS-CARB - FOR CARBURETORS AND ENGINE PARTS

Is designed for cleaning carburetors, engine parts, and tools, effectively removing grease, carbon deposits, oils, and other contaminants, especially when used in an ultrasonic cleaner. It is safe for aluminum, steel, plastic, brass, copper, zinc, tin, and sensitive alloys.

Solution is often used in industrial workshops, repair shops, and manufacturing environments, for cleaning carburetors, engine components, mechanical parts, and maintenance tools.

AS-JEW - JEWELRY CLEANING SOLUTIONS

Is designed for safely removing oils, cosmetic residues, skin deposits, and polishing compounds from jewelry and precious metals, especially when used in an ultrasonic cleaner. It is suitable for cleaning delicate items without damaging their surface or shine.

Solution is often used in jewelry stores and repair workshops, for cleaning rings, necklaces, bracelets, watches, and other fine jewelry.

AS-OPT - OPTICAL CLEANING SOLUTIONS

Is designed for cleaning delicate optical components, removing fingerprints, dust, and grease without damaging sensitive coatings, especially when used in an ultrasonic cleaner. It is suitable for materials requiring gentle and residue-free cleaning.

Solution is often used in optical workshops and laboratories, for cleaning lenses, optical instruments, glass components, cameras, microscopes, and precision optical parts.

AS-UCP - ULTRASONIC CLEANING POWDER FOR MEDICAL AND DENTAL INSTRUMENTS

Is designed for removing biological contaminants and residues from medical and dental instruments, especially when used in an ultrasonic cleaner. It is suitable for use in healthcare environments where thorough and reliable cleaning is required.

Solution is often used in dental clinics, hospitals, laboratories, and cosmetic practices, for cleaning surgical instruments, dental tools, laboratory equipment, and other medical devices.

AS-PCB - ELECTRONIC COMPONENT CLEANING SOLUTIONS

Is designed for cleaning electronic components and precision parts without leaving conductive residues, especially when used in an ultrasonic cleaner. It is suitable for sensitive electronic parts where residue-free cleaning is essential.

Solution is often used in electronics repair and manufacturing environments, for cleaning circuit boards, connectors, electronic assemblies, and precision components.

AS-OXI - OXIDATION & RUST REMOVAL

Is designed for removing rust, oxidation, oxide layers, carbon deposits, grease, and industrial residues from metal parts, especially when used in an ultrasonic cleaner. It is intended for metals such as stainless steel, steel, iron, copper, tin, and aluminum (with caution on aluminum).

Solution is often used in workshops and service centers, automotive and engine-part cleaning, maintenance and rebuild facilities, cleaning tools, machine parts, valves, carburetors, heat exchangers, and stored metal parts that developed rust or oxidation

AS-METALPASS - RUST REMOVAL & METAL PASSIVATION

Is designed for removing rust and providing metal passivation, helping to protect surfaces from further corrosion, especially when used in an ultrasonic cleaner. It is safe for use on steel, aluminum, copper, brass, and other non-ferrous metals.

Solution is often used in workshops and industrial environments, for cleaning and protecting metal parts, tools, components, and surfaces where corrosion resistance is required.

AS-CALC - LIMESCALE REMOVER

Is designed for removing limescale, mineral deposits, and water residues from various surfaces, especially when used in an ultrasonic cleaner. It is safe for stainless steel, glass, ceramics, titanium, brass, chrome-plated parts, and acid-resistant plastics.

Solution is often used in households, workshops, and industrial environments, for cleaning heating elements, pipes, tanks, tools, and components affected by limescale buildup.

AS-BIOX - OXYGEN MASK CLEANER

Is designed for cleaning oxygen masks and related equipment, effectively removing dirt, residues, and contaminants while maintaining material integrity, especially when used in an ultrasonic cleaner. It is safe for painted, metal, and textile surfaces.

Solution is often used in medical environments, emergency services, and maintenance facilities, for cleaning oxygen masks, breathing equipment, and protective gear.

ADDITIONAL RECOMMENDATIONS

For best cleaning performance, follow these recommendations:

- Always use **water-based ultrasonic cleaning solutions** unless otherwise specified.
- Warm cleaning liquids (typically **40–60°C**) improve cleaning efficiency.
- Follow the **manufacturer's recommended dilution ratios** when using concentrated cleaning solutions.
- Replace the cleaning solution when it becomes heavily contaminated.
- Rinse cleaned objects with clean water after the cleaning process to remove any remaining solution residues.

IMPORTANT SAFETY NOTICE

Do **not** use flammable or volatile liquids in the ultrasonic cleaner. The following substances must never be used in ultrasonic cleaning tanks:

- Gasoline, alcohol, acetone, benzene, solvents containing flammable vapors

These substances may pose a **serious fire or explosion hazard** when used in ultrasonic cleaning devices.

DEGASSING FUNCTION

Some ultrasonic cleaner models are equipped with a **degassing function**. This feature is designed to remove trapped air and dissolved gases from the cleaning liquid before the ultrasonic cleaning process begins. Removing these gases improves the efficiency and consistency of the ultrasonic cleaning process.

WHY DEGASSING IS IMPORTANT

When fresh liquid such as water or cleaning solution is poured into the ultrasonic tank, it usually contains **dissolved air and small gas bubbles**. These gases can interfere with the formation of ultrasonic cavitation, which is the process responsible for cleaning.

Ultrasonic cleaning works by generating **microscopic cavitation bubbles** in the liquid. These bubbles rapidly expand and collapse, producing tiny but powerful cleaning forces that remove dirt, grease, and other contaminants from the surfaces of objects.

If the liquid contains too much dissolved air, the ultrasonic energy is partially absorbed by these air bubbles instead of forming strong cavitation bubbles. As a result:

- the cleaning process becomes less effective
- cleaning times may become longer
- ultrasonic energy is reduced

The **degassing function removes this trapped air**, allowing the ultrasonic waves to generate stronger and more consistent cavitation.

HOW THE DEGASSING FUNCTION WORKS

When the degassing mode is activated, the ultrasonic cleaner operates in a special cycle designed to release dissolved gases from the liquid. During this process, ultrasonic energy causes small air bubbles in the liquid to rise to the surface and escape.

You may notice small bubbles rising to the surface of the liquid during degassing. This is normal and indicates that the trapped air is being released.

Once the degassing process is completed, the cleaning liquid is fully prepared for optimal ultrasonic cleaning.

WHEN TO USE THE DEGASSING FUNCTION

It is recommended to use the degassing function in the following situations:

- when **fresh water or cleaning solution** has been added to the tank
- after **replacing the cleaning liquid**
- when performing **precision cleaning tasks**
- when maximum cleaning efficiency is required

Degassing is especially useful for cleaning:

- laboratory instruments, precision mechanical parts, electronic components, medical or dental instruments

DEGASSING TIME

The degassing process typically takes **5 to 10 minutes**, depending on the tank size and the amount of dissolved air in the liquid. Some ultrasonic cleaners perform the degassing cycle automatically when the function is activated. In many cases, degassing only needs to be performed **once after filling the tank with fresh liquid**.

ADDITIONAL RECOMMENDATIONS

For best results:

- run the degassing function **before placing items in the tank**
- ensure the tank is filled to the correct liquid level
- use appropriate ultrasonic cleaning solutions

Once the degassing process is complete, the ultrasonic cleaner will be ready to operate at **maximum cleaning efficiency**.

HEATING FUNCTION

If the device includes heating:

Set desired temperature using the control panel.

Typical ultrasonic cleaning temperatures: 40–60°C. Max temperature that can be reached is 80°C.

MAINTENANCE

Regular maintenance of the ultrasonic cleaner is important to ensure **reliable operation, optimal cleaning performance, and a long service life** of the device. Proper care also helps prevent contamination of cleaned items and reduces the risk of damage to the ultrasonic tank and internal components. The ultrasonic cleaner does not require complex servicing, but several simple maintenance procedures should be performed regularly.

EMPTY THE TANK AFTER USE

After completing the cleaning process, it is recommended to **empty the cleaning liquid from the tank**, especially if the device will not be used again soon.

During operation, dirt, grease, and other contaminants accumulate in the cleaning solution. Reusing heavily contaminated liquid may reduce cleaning efficiency and can cause residues to redeposit on cleaned items.

To empty the tank:

1. Turn off the device and disconnect it from the power supply.
2. Allow the liquid to cool if it was heated during operation.
3. Carefully pour the liquid out of the tank or use the drain valve if the device is equipped with one.
4. Dispose of the used cleaning solution according to local regulations.

CLEAN THE TANK

After emptying the tank, the interior of the tank should be cleaned to remove any remaining residues.

Use a **soft cloth, sponge, or non-abrasive brush** together with mild detergent and water. Avoid using harsh chemicals or abrasive materials that may scratch the stainless steel tank.

After cleaning, rinse the tank with clean water to remove any detergent residues.

DRY THE DEVICE

Once the tank has been cleaned, wipe the interior and exterior surfaces of the device with a **soft, dry cloth**. This helps prevent water spots, corrosion, or mineral deposits.

Ensure that no liquid remains around the control panel, electrical connections, or ventilation openings.

INSPECT THE DEVICE REGULARLY

Periodically inspect the ultrasonic cleaner to ensure that all components are in good condition.

Check the following parts:

- power cable and plug
- control panel and buttons
- tank interior
- lid and basket
- drain valve (if present)

If you notice any damage, unusual noise, or irregular operation, discontinue use and contact an authorized service technician.

REPLACE CLEANING SOLUTION REGULARLY

For best cleaning results, the cleaning solution should be **replaced regularly**, especially when it becomes visibly dirty or contaminated.

Using fresh cleaning solution helps maintain strong cavitation and improves overall cleaning performance.

GENERAL MAINTENANCE RECOMMENDATIONS

To keep the ultrasonic cleaner in good working condition:

- Always operate the device with **sufficient liquid in the tank**.
- Never run the ultrasonic cleaner **without liquid**, as this may damage the transducers.
- Do not place heavy objects directly on the bottom of the tank.
- Always use the **supplied basket** when cleaning items.
- Keep the exterior of the device clean and dry.

STORAGE

If the ultrasonic cleaner will not be used for an extended period, clean and dry the device thoroughly before storage. Store the device in a **dry, dust-free environment** away from direct sunlight and extreme temperatures. Cover the unit or store it in its original packaging to protect it from dust and mechanical damage.

CLEANING THE DEVICE

CLEANING THE DEVICE

Regular cleaning of the ultrasonic cleaner helps maintain proper operation, prevents buildup of contaminants, and ensures consistent cleaning performance. After repeated use, residues from dirt, grease, oils, and cleaning solutions may accumulate in the tank and on the exterior surfaces of the device. Periodic cleaning helps prevent these residues from affecting future cleaning cycles.

CLEANING THE TANK

After emptying the used cleaning liquid, the tank should be cleaned to remove any remaining dirt or residues. Use a **soft cloth, sponge, or non-abrasive brush** together with warm water and a mild detergent. Gently wipe the interior surfaces of the stainless steel tank to remove deposits.

Avoid using excessive force while cleaning the tank, as scratching the stainless steel surface may reduce the lifespan of the tank or affect cleaning efficiency.

After cleaning, rinse the tank thoroughly with clean water to remove any detergent residues. Finally, wipe the tank dry with a **soft, lint-free cloth** or allow it to air dry.

CLEANING THE EXTERIOR

The exterior housing of the ultrasonic cleaner should also be cleaned periodically to remove dust, fingerprints, or spilled cleaning solution. Use a slightly damp cloth with mild detergent to wipe the outer surfaces.

Make sure that no water enters the control panel, electrical connections, ventilation openings, or power socket. The device must **never be immersed in water**.

After cleaning the exterior, dry the surfaces with a clean cloth.

CLEANING THE ACCESSORIES

Accessories such as the **basket, lid, and holders** should also be cleaned regularly. These parts may accumulate dirt or residues during use.

- The **basket** can be rinsed with warm water and mild detergent.
- The **lid** or any removable racks can be wiped clean with a damp cloth.

After cleaning, ensure that all accessories are completely dry before placing them back into the device.

IMPORTANT CLEANING GUIDELINES

To prevent damage to the device, always follow these guidelines:

- Do **not** use abrasive cleaners, steel wool, or scouring pads.
- Do **not** use strong acids, corrosive chemicals, or solvents.
- Do **not** use sharp tools that may scratch the tank surface.
- Do **not** spray water directly onto the control panel or electrical parts.

Using improper cleaning materials may damage the stainless steel tank, plastic housing, or electronic components.

CLEANING FREQUENCY

The device should be cleaned:

- after **heavily contaminated cleaning cycles**
- when the cleaning liquid becomes **dirty or oily**
- after using **specialized chemical cleaning solutions**
- before storing the device for a long period

Keeping the ultrasonic cleaner clean helps ensure **consistent ultrasonic performance and hygienic cleaning conditions**.

TROUBLESHOOTING

This section provides solutions to common problems that may occur during the operation of the ultrasonic cleaner. Many issues can be resolved quickly by following the suggestions below. If the problem persists after performing the recommended actions, discontinue use and contact the supplier or authorized service center.

Problem	Possible Cause	Solution
Device does not turn on	Power cable not connected No power in the outlet Broken fuse in ON/OFF switch	Check that the power cable is properly plugged Test the outlet with another device Change fuse in ON/OFF switch
No ultrasonic activity visible	Device not running If timer is running If timer is running and cables connected	Check that the unit is turned on and timer set Check the connections of the cables inside You need to replace Power PCB
Device does not start cleaning	Timer not set	Set the timer and press the start button
Ultrasonic cleaning is weak	Liquid level too low Cleaning solution too dirty Objects overcrowded in basket Wrong cleaning solution	Fill the tank to the recommended level Replace the cleaning liquid Reduce the number of items being cleaned Use a suitable ultrasonic cleaning solution

	Cleaning time too short Liquid temperature too low	Increase the cleaning time Use warm liquid or activate heating function if available
Unusual noise during operation	Objects touching the tank bottom Loose objects vibrating	Place objects in the basket Rearrange objects in the basket
Device overheats	Insufficient ventilation Continuous operation for too long	Ensure proper airflow around the device Allow the device to cool before next use
Water leaking from unit	Drain valve not closed properly Tank overfilled	Check and tighten the drain valve Reduce liquid level
Strong smell from cleaning liquid	Cleaning solution contaminated	Replace the cleaning liquid
Foam forming in tank	Too much detergent used	Reduce the amount of detergent
Items not fully clean	Heavy contamination	Repeat cleaning cycle or pre-clean items
Items damaged after cleaning	Item not suitable for ultrasonic cleaning	Verify compatibility before cleaning
Short circuit	Turn on heater, if “short” Turn on ultrasonic, if “short”	Replace the heater Replace the transducer

ADDITIONAL TROUBLESHOOTING TIPS

- Always ensure the tank contains **sufficient liquid before operating the device**.
- Replace the cleaning solution regularly to maintain cleaning performance.
- Avoid overloading the basket, as this can block ultrasonic waves.
- For heavily contaminated items, consider using **specialized ultrasonic cleaning solutions**.
- Warm cleaning liquid generally improves cleaning efficiency.

WHEN TO CONTACT SERVICE

Stop using the device and contact the supplier or authorized service technician if:

- the device does not power on after checking the power supply
- unusual burning smells occur
- liquid leaks from inside the housing
- the control panel stops responding

Do not attempt to open or repair the device yourself, as this may void the warranty and create safety risks.

TECHNICAL SUPPORT

ASONIC Contact:

E: info@asonic-ultrasoniccleaners.com

WARRANTY & DISPOSAL

Warranty period: 24 months.

STATEMENT OF THE GUARANTOR:

- The product will have prescribed or declared characteristics during the guarantee period. The provider of warranty within the warranty period, at its own expense provides service and removal of defects arising from mismatches between actual and declared specifications of the product. If provider of the guarantee is unable to fulfill this obligation, he will replace the product with a new one or with the model of similar characteristics if the previous one is unavailable.
- Product will function correctly during the warranty period, if it is used in accordance with its intended purpose and technical manual instructions. The provider of the guarantee commits to eliminate any failures and shortcomings that prevent the product from working properly in the designated service center.
- The owner of the device is obliged to make sure that guarantee is properly validated. If there is no validation, guarantee is void.
- Service for these appliances will be available for 5 years after sale.

TERMS OF GUARANTEE:

Buyer can claim his rights by submitting original validated guarantee and original invoice with the date of purchase. The warranty does not apply if altered, crossed out or damaged. Before operating the appliance read the instruction that is supplied with each device.

1. The guarantee is considered valid when the defective device is delivered for service with the original invoice and validated guarantee certificate.
2. Guarantee is void if:
 - The appliance is used in a different manner and for longer periods than recommended in the instructions;
 - Repairs are made (to the device) by unauthorized persons;
 - There is installations of parts which are not original;
 - The device was not properly handled;
 - The product has suffered an electric shock or lightning;
 - The product was damaged during transport;
 - The device was not properly installed;
 - Damage was caused by mechanical hits to the device by the customer or third parties.

Do not dispose of electronic equipment in household waste. Follow local WEEE recycling regulations.