Ultrasonic Cleaner Baths

AU SERIES

Manual

ARGO LAB

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INSTRODUCTION

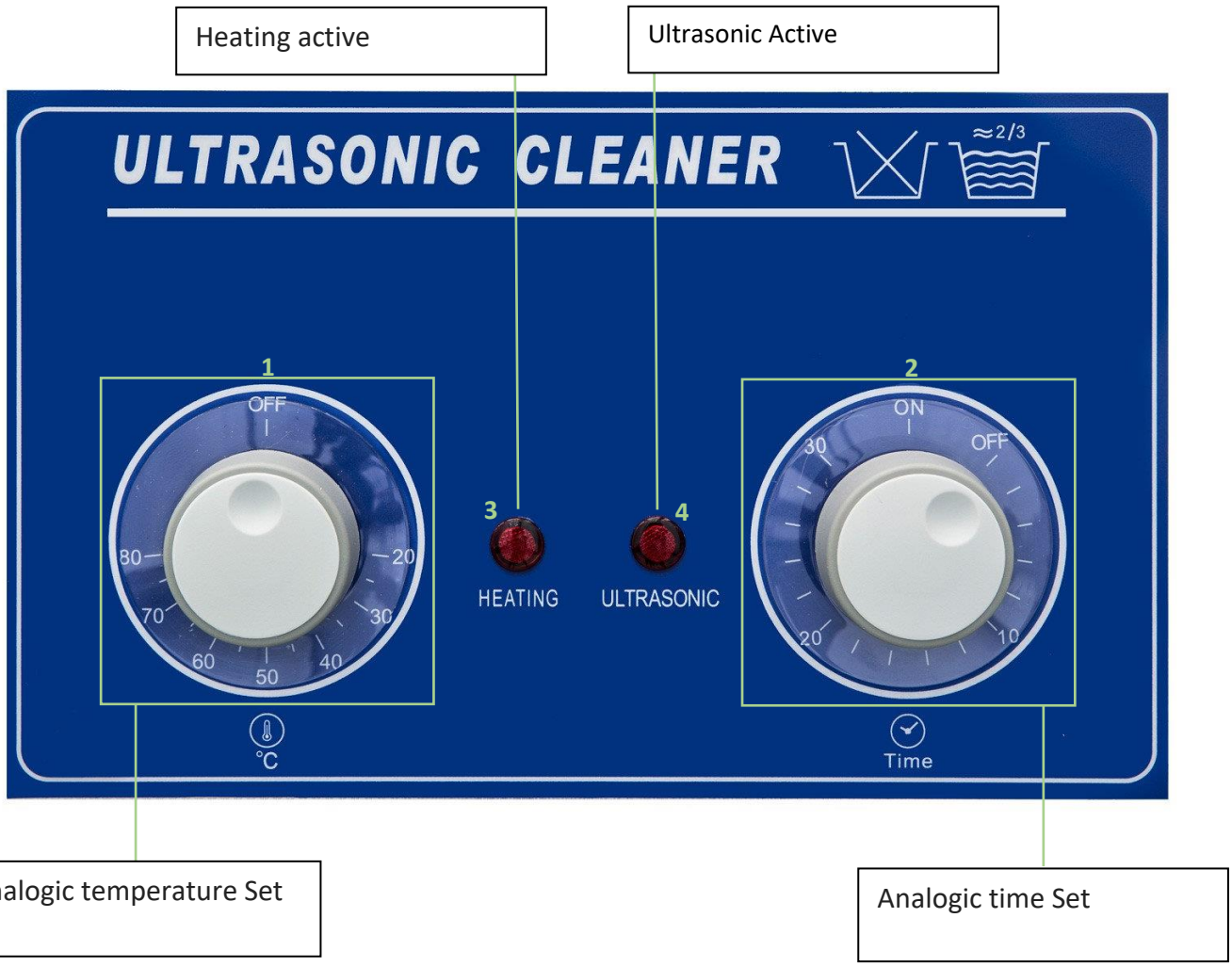
Ultrasonic cleaner is on based of cavitation effect caused by high frequency ultrasonic wave vibration signal in fluid. Microscopic bubble are formed and they implode violenty that cause cavitation, which gives out great impact of the cleaning subject and provides an intese scrubbing action on the surface of cleaning subject. Additional, the bubbles are small enough to penetrate even microscopic crevices, cleaning them thoroughly and consistley.

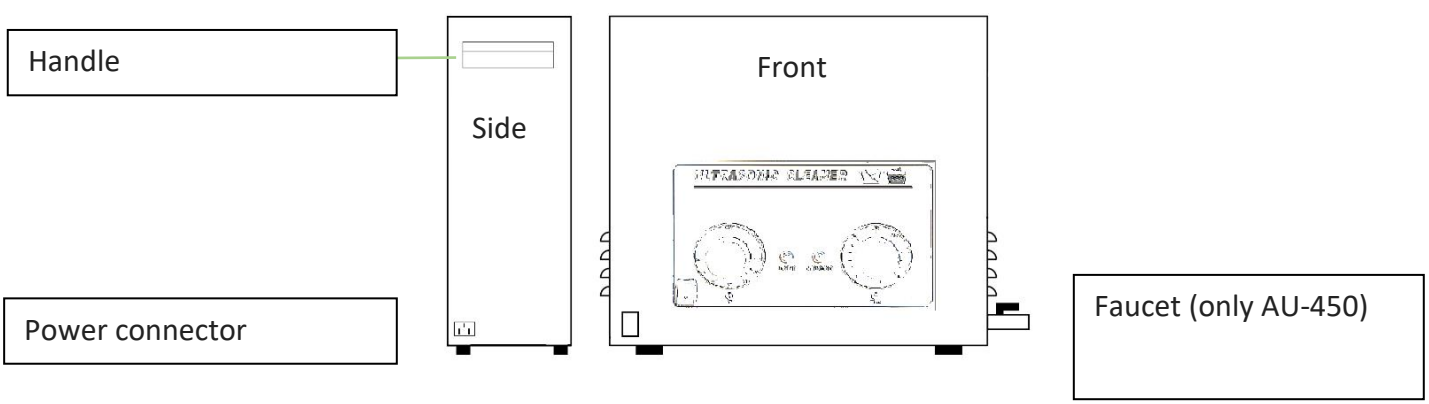
SAFETY WARNINGS

Observe and follow the operation manual

	Do not operate the unit more than 30 minutes, it will shorten the lifetime of the device.
	This instrument has been designed for the ultrasonic treatment of items in liquids only. **Don't operate without liquids.** This product must be operated by qualified staff only.
	Connect the unit to a grounded shockproof socket only! Do not open the unit! Maintenance must be done by authorised personal only! Use this product in a stable and dry work place! Use only distilled water! Pull the mains plug in case of any malfunctions!
	Do not operate the unit with flammable cleaning media!
	Do not put any acids or chlorides into the stainless-steel tank! Do not place any items directly on the tank floor, but use the basket!
	Do not reach inside the cleaning liquid or touch sound carrying parte (tank, basket, cleaning items, etc.) during operation.
	Ultrasonic cleaner unit can produce annoying sound.
§	Exclusion of liability; the manufacturer cannot be held liable for damages on persons, equipment or cleaning items caused by improper use and non-observance of the Operating Instructions. The operator is responsible for the instructions of the operating staff. For any queries please contact your supplier or the manufacturer

DESCRIPTION





OPERATING INSTRUCTIONS

Setting temperature

1. Rotate the knob (1) to increase or decrease the desired temperature.
   While heating is occurring, the red “HEATING”(3) light will illuminate.

Setting timer

1. Rotate the knob (2) to increase or decrease the desired timer.
   While timer is occurring, the red “TIMER”(4) light will illuminate.

APPLICATION

Airbrushes / spray guns	calligraphy pens / nibs	Dental & surgical instruments
Geological & metallurgical specimens	Inkjet printer cartridges	Laboratory glassware & apparatus
Metal / fibre filters	Microelectronic circuits & component	Nozzles
Production line cleaning	Watches & clockwork	Automotive / Aviation components
Computer plotter pens / nibs	Fuel Injectors	Hypodermic needles
Jewellery	Lenses & other optical components	Metal / rubber seals
Moulding dies	Printed Circuit Boards (PCBs)	Scientific & Industrial instruments

SPECIFICATION

Caracteristics	AU-32	AU-65	AU-220	AU-450
Capacity (L)	3,2	6,5	22,0	45,0
Temperature range (°C)	80	80	80	80
Timer (min)	Da 1 a 30 / ∞	Da 1 a 30 / ∞	Da 1 a 30 / ∞	Da 1 a 30 / ∞
Power control	No	No	No	No
Ultrasonic frequency (kHz)	40	40	40	40
Tank size (L x W x H)	240 x 135 x 100	300 x 150 x 150	500 x 300 x 150	500 x 300 x 300

CLEANING PROCESS

Please observe any national safety regulations that may apply in addition to the present instructions.

Observe the general safety warnings. The operator is responsible for the control of the cleaning result. Take the warming of the cleaning liquid into consideration when cleaning temperature-sensitive items. Ultrasound can damage sensitive surfaces when operated **over a prolonged** period of time and particularly when operated at low cleaning frequencies.
If required for the cleaning operation by hand, pre-heat the liquid (in units of heating).
Immerse the cleaning items into the cleaning liquid. Do not place any items or containers directly onto the tank floor. Use either a cleaning basket, a becker (filled with water + cleaning chemical) or hang the items into the liquid.
Set the cleaning time – switch on the ultrasound.
Monitor the cleaning process: Check the cleaning result by visual inspection. Repeat the cleaning process if necessary.
Rinse the cleaned items after the cleaning and dry if necessary.

MAINTANANCE / CARE

Caution! Pull the mains plug before you carry out any maintenance and care works! Do not put the unit under water! For repair return the unit to your supplier or to the manufacturer.
Electrical safety: Regularly check the housing and the mains cable for damage to avoid electrical accidents.
Care of transducer tank: The deposits in the stainless-steel tank can be removed gently, e.g. by mild decalcifies. Do not use any scouring media!
Care of housing: Depending on their kind contaminations can be removed with a mild household cleaner or decalcifier (wipe with wet cloth).
Disinfection: If the unit is operated in the medical and sanitary sector it is necessary to disinfect the transducer tank and the surfaces regularly for hygienic purposes (standard surface disinfectants).

DISPOSAL OF ELECTRONIC DEVICES

	The electrical and electronic equipment marked with this symbol cannot be disposed of in public landfills. According to the UE Directive 2002/96/EC, the European users of electrical and electronic equipment can return it to the dealer or manufacturer upon purchase of a new one. The illegal disposal of electrical and electronic equipment is punished with an administrative fine.