



11 Ultrasonic Cleaner

Ultrasonic Cleaner

Technology

The cavitation phenomenon consist of formation and growth of millions of microscopic bubbles under a low pressure stage, produced into the ultrasonic bath due to a high power transducer 37/40kHz. These bubbles break in all directions and attack every surface in contact with water, erasing dirt, impurities and pollutants when in contact with materials or pieces in the bath. This phenomenon allows cleaning all kinds of materials and products without the need of disassembling, due to all the surfaces being in contact with the liquid. The heat allows accelerate this clearing process.

Eco Series

- > Wide range available volumes from 3 l up to 22 l capacity
- > Inner and outer parts made of stainless steel
- > Comes with a tray to conveniently place objects to be cleaned
- > Features a digital timer with up to 99 min

Pro Series

- > Entails all advantages of the Eco series
- > LCD touch screen for simple and intuitive operation
- > Features a digital timer with up to 199 min
- > Working power adjustable between 40% and 100%
- > Heating ability between 20°C and 80°C
- > Comes with a tray and lid
- > Stainless steel 304 tank and paint coated case, meet the requirements of antiseptic and hygienic lab environment
- > Independent degas function
- > Automatically save last parameters and recalled when unit is turned back on
- > Non-slip feet and flexible surface contact for lower ultrasonic vibration
- > Safety handles make unit portable
- > Maintain ultrasonic efficiency at different temperatures
- > Frequency overload and thermal protection

Application

- > Laboratories: laboratory material, precision instruments, pipettes, sieves, etc.
- > Medicine: instrumentation in general, surgical material, etc.
- > Odontology: dental prosthesis, instrumentation, etc.
- > Optics: instrumentation, opticals, frames, etc.
- > Industry: printed circuits, Electronic components, etc
- > Jewellery: watches, jewels, etc
- > Automation: Injector clearing.
- > Degasification or liquid dissolution.
- > Compact substances digregation



Specifications



Model	Capacity L	Internal Size (LxWxH) mm	Overall Size (LxWxH) mm	Working Power W	Heater Power W	Temp. °C	Frequency Khz	Timer min	Drain
Eco Series									
UE03SFD	3	240×140×100	270×160×240	90	--	--	40	1~99min	No
UE06SFD	6	300×150×150	330×180×290	160	--	--	40	1~99min	Yes
UE10SFD	10	300×240×150	360×270×310	250	--	--	40	1~99min	Yes
UE15SFD	15	330×300×150	390×330×310	350	--	--	40	1~99min	Yes
UE22SFD	22	500×300×150	570×330×330	500	--	--	40	1~99min	Yes
Pro Series									
UA03MFDN	3	240×137×103	301×163×342	Max.100 (40-100% adjustable)	88	20~80	37	1~199min	No
UA06MFDN	6	300×153×150	362×180×305	Max.150 (40-100% adjustable)	170	20~80	37	1~199min	No
UA10MFDN	10	300×240×150	383×267×305	Max.200 (40-100% adjustable)	270	20~80	37	1~199min	Yes
UA22MFDN	22	500×300×150	584×327×327	Max.400 (40-100% adjustable)	550	20~80	37	1~199min	Yes

Shaking Ultra Sonic Water Bath / SONOSHAKE

Wiggins shaking ultrasonic water bath SONOSHAKE combines the function of ultrasonic cleaner and shaking water bath, SONOSHAKE offers a wide range of possible applications for sample preparation in many areas of analysis, for example, in environmental and foodstuffs analytics as well as in the area of medical diagnostics.

Both procedures can be carried out simultaneously or separately.

This means that a sample can be pre-homogenized at a specified shaking frequency, and then final homogenization can be achieved in a very short time using ultrasound.

- > analogue setting of time (1–15min or continuous) and shaking frequency
- > reciprocating motion: settings in 4 steps possible of up to 200 shakes/min
- > constant amplitude of 20 mm independently of loading
- > rack easy to remove
- > fast mounting of the laboratory clamps EK 10 –250 (ordering separately)
- > shaking platform approx. 480 × 280 mm (l × w)
- > Order NO.: WSA1028



Accessories for Ultrasonic Cleaner

Some accessories are very suitable for the Ultrasonic Cleaner, protecting the tank body, and some small parts need special containers ensure to be placed at the bottom of the tank.



Lid for reduce the noise

Order No.	Name	Suitable for Volume
U10003	SS Lid	3L
U10006	SS Lid	6L
U10010	SS Lid	10L
U10015	SS Lid	15L
U10022	SS Lid	22L



Tray

Order No.	Name	Suitable for Volume
U10203	Tray	3L
U10206	Tray	6L
U10210	Tray	10L
U10215	Tray	15L
U10222	Tray	22L



SS Insert basket

Order No.	Name	Suitable for Volume
U10103	Insert basket	3L
U10106	Insert basket	6L
U10110	Insert basket	10L
U10115	Insert basket	15L
U10122	Insert basket	22L



Positioning lids

Order No.	Name	Suitable for Volume
U10403	Lid	3L
U10406	Lid	6L
U10410	Lid	10L
U10415	Lid	15L
U10422	Lid	22L

Test tube holder / Drain pipe

Order No.	Description
U10503	Test tube holder, suitable for 3–22L Ultrasonic Cleaner
U10606	Drain pipe, suitable for 3–22L Ultrasonic Cleaner



Stabilizing rings for Erlenmeyers

- > - PVC covered steel
- > - suitable for Erlenmeyers, flasks, etc.
- > Application: The weight of the ring prevents flasks from floating when placed in a thermal bath.



Order No.	Model	Colour	Size (OD) x (ID)	Weight
5660	Type S	Red	Ø 70 × Ø 27 mm	0.3 kg
5661	Type M	Yellow	Ø 105 × Ø 52 mm	0.5 kg
5662	Type L	Blue	Ø 140 × Ø 76 mm	1.2 kg