

① Elmasonic S ultrasonic table top units

are available in 13 sizes and provide all most frequently used functions in everyday lab work.

Ultrasonic frequency:

37 kHz

Features:

- Regular mode: Optimized for laboratory applications, e.g. loosening, mixing, dispersing etc.
- Sweep function: For faster and more thorough cleaning by a homogeneous ultrasound distribution in the ultrasonic bath
- Degas / Autodegas function
 - Degas: Degasifying of liquids before analysis
 - Autodegas: Automatic degasifying before start of cleaning; for even cleaning results
- Start / auto-start option:
 - Start: manual activation of immediate cleaning process
 - Autostart: Cleaning process starts when the preselected temperature is reached
- Individual temperature preselection
- Electronic time control up to 30 min. + permanent operation. Optimized process control by:
 - display of pre-selected operation time (fix LED)
 - display of remaining runtime (blinking LED)

Type	Bath dimensions L x W x D mm	Bath volume l	HF out- put W _{eff}	Version without heating Order No.	with heating Order No.
S 10 /H	190x85x60	0.8	30	10 15 74010	10 15 72010
S 15 /H	151x137x100	1.75	35	10 15 74015	10 15 72015
S 30 /H	240x137x100	2.75	80	10 15 74030	10 15 72030
S 40 /H	240x137x150	4.25	140	10 15 74040	10 15 72040
S 60 /H	300x151x150	5.75	150	10 15 74060	10 15 72060
S 70 /H	505x137x100	6.9	150	10 15 74070	10 15 72070
S 80 /H	505x137x150	9.4	150	10 15 74080	10 15 72080
S 100 /H	300x240x150	9.5	150	10 15 74100	10 15 72100
S 120 /H	300x240x200	12.75	200	10 15 74120	10 15 72120
S 150	505x300x100	14	300	10 15 74150	
S 180 /H	327x300x200	18	200	10 15 74180	10 15 72180
S 300 /H	505x300x200	28	300	10 15 74300	10 15 72300
S 450 H	500x300x300	45	400		10 15 72450
S 900 H	600x500x300	90	800		10 15 72900



② Elmasonic P ultrasonic units

with multi-frequency function, high-performance. Available in 6 sizes.

Features:

- Self-explanatory digital display, all values clearly legible, target and actual values visible at a glance.
- Two frequencies (switchable) in one unit:
 - 37 kHz ultrasound: for coarse contaminations, for loosening, mixing, dispersing, and degasifying
 - 80 kHz ultrasound: silent operation, ideal for quiet working areas, for cleaning the interiors of e.g. capillaries and all kinds of microstructures.
- Regular mode: Laboratory applications as e. g. loosening, mixing, dispersing.
- Pulse function: Optional additional „power“ by increase of peak capacity.
- Sweep function: Distributes the power evenly over the entire unit.
- Degas function: For quick degasifying of samples or solvents in the HPLC.
- Temperature-controlled auto start for automatic start of the ultrasound when the preselected temperature is reached.
- Pause function: Interruption of the current ultrasound treatment. All parameters are stopped. Press key 1x to stop the process. Press the key a second time to continue the process with the retained parameters.
- Setting the power: 30 – 100% for optimum application of energy for the selected frequency for cleaning jobs and laboratory applications.

Type	Bath dimensions L x W x D mm	Bath volume l	HF output W _{eff}	Order No.
P 30 H	240x137x100	3	120/100	10 15 73030
P 60 H	300x151x150	5.75	180/150	10 15 73060
P 70 H	505x137x100	6.90	220	10 15 73070
P 120 H	300x240x200	12.75	330	10 15 73120
P 180 H	327x300x200	18	330	10 15 73180
P 300 H	505x300x200	28	380	10 15 73300



③ Elmasonic S 50 R and S 350 R

Elmasonic S 50 R and S 350 R “Lab Technology” – for the cleaning of analysing sieves, the degassing of HPLC solvents and the ultrasonic processing of samples. Microprocessor-controlled ultrasonic modes and special predefined programmes assist every standard laboratory and cleaning application.

Features

- for easy cleaning of analysing sieves of 200 – 500 mm with program-control ultrasound (Sieve Cleaning)
- integrated special programs for sample preparation for mixing, dissolving, dispersing
- effective and simple degassing of samples and HPLC solvents via the preset degas function
- level marks for working with small vessels and for reducing the water consumption
- 37 kHz ultrasonic frequency
- user-friendly clearly arranged operating panel
- continued and short-period setting operation from 1 to 30 min
- LED display for both pre-set and actual temperature, and for the remaining operating time
- connection rack for laboratory holder, noise-reduced operation

Technical data:

	Elmasonic S 50 R	Elmasonic S 350 R
Tank internal dimensions (Ø × H):	240 × 130 mm	600 × 245 mm
Basket internal dimensions (Ø × H):	220 × 70 mm	545 × 70 mm
Max. filling capacity:	5.3 l	57.0 l

Article	Order No.
Elmasonic S 50 R	10 15 75010
Elmasonic S 350 R	10 15 75011
Basket for S 50 R	10 15 75021
Basket for S 350 R	10 15 75026
Filter holder for S 50 R	10 15 75022
Plastic cover	10 15 75023
Stainless steel cover for S 350 R	10 15 75027
Plastic cover for beaker	10 15 75024
Bracket kit	10 15 75025

Test sieve holder für S 350 R on demand



④ Noise protection box for ultrasonic table top units

Available sizes:

- M – for Elma 0.8 – 6 liter units
- L – for Elma 9 – 13 liter units

Features:

- Reduces the typical cavitation noises by approx. 20 dBA, achieving a 75% noise reduction
- Suitable for use directly at noise-sensitive workplaces in laboratories, doctor's surgeries, or workshops
- Vapours are removed by suction
- Plexiglass hatch

The noise protection box M can be used with the following units:

Elmasonic S 10; S 15; S 30 / P 30; S 40; S 60 / P 60 and all units with similar dimensions.

The noise protection box L can be used with the following units:

Elmasonic S 100; S 120 / P 120 and all units with similar dimensions.

Type	Outer dimensions W × D × H mm	Inner dimensions W × D × H mm	Order No.
Noise protection box size M	465×360×415	380×240×315	10 15 71901
Noise protection box size L	530×375×520	440×310×480	10 15 71902



⑤ Cleaning concentrate Elma Lab Clean

- Elma Lab Clean A10 — All-purpose cleaner, mild alkaline liquid concentrate
- Elma Lab Clean A20sf — Surfactant free mild alkaline liquid concentrate
- Elma Lab Clean A25 — Strong alkaline liquid concentrate
- Elma Lab Clean N10 — Neutral concentrate
- Elma Lab Clean S10 — acidic concentrate
- Elma Lab Clean S20 — Strong acidic concentrate



Type	pH value (concentration)	Suggested dosage	Delivery containers			
			1 liter Order No.	2.5 liters Order No.	10 liters Order No.	25 liters Order No.
Elma Lab Clean A10	11.3	US*: ca. 1–2% DW*: ca. 0.5–1%	10 15 70180	10 15 70181	10 15 70182	10 15 70183
Elma Lab Clean N10	8.2	US*: ca. 2% DW*: ca. 1%	10 15 70075	10 15 70076	10 15 70077	10 15 70078
Elma Lab Clean S10	2.5	US*: ca. 2% DW*: ca. 0.5%	10 15 70095	10 15 70096	10 15 70097	10 15 70098
Elma Lab Clean A25	–14	US*: ca. 1–2% DW*: ca. 0.5–1%	10 15 70085	10 15 70086	10 15 70087	10 15 70088
Elma Lab Clean A20sf	11.5	US*: ca. 1% DW*: ca. 0.5%	10 15 70055	10 15 70056	10 15 70057	10 15 70058
Elma Lab Clean S20	< 1	US*: ca. 1–2% DW*: ca. 0.5–1%	10 15 70190	10 15 70191	10 15 70192	10 15 70193

US* = Ultrasonic unit
DW* = Dishwasher

