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Laboratory

Elmasonic S 50 R and Elmasonic S 350 R

Test sieve cleaning, quick degasification and sample preparation with ultrasound

- Effective cleaning of test sieves acc. DIN ISO 3310 and up to max. 500 mm
- Special programs for sieve cleaning and easy sample preparation
- Simple fast degassing of gaseous samples and HPLC solvents

Program-controlled fast degasification and sample preparation for reproducible results



Elmasonic S 50 R during a lab application

Fast degassing of HPLC solvents and gaseous, liquid samples

The special Degas function switches back and forth between maximum power and a mode that drives out the now macroscopic bubbles upwards via a lift-out effect. Degassing in the Elmasonic S 50 R is performed very effectively and with reduced noise.

The laboratory glassware can be fixed using the optionally connected laboratory stand so that the laboratory glassware does not rattle unnecessarily loudly on the basket base.

Sample preparation the easy way

Focus points of the Elmasonic S 50 R and S 350 R devices are the test sieve cleaning, HPLC-solvent degassing and laboratory applications such as the removal of difficult to dissolve substances, emulsion manufacture and the reaction acceleration.

For the different applications like sieve cleaning, degassing, sample preparation and treatment, specially adapted ultrasonic programs were furnished.

The user can activate the correct ultrasound parameters using "sieve cleaning", "degas" or "sample preparation" easily and quickly by pressing a button and the machine operates in the respective stored ultrasonic mode.

Correct filling of the machines is simplified thanks to filling level marks in the bath. The S 50 R has three different filling level marks for 3, 4 and 5 litres. The filling level mark in the Elmasonic S 350 R is for 57 litres.

The Elmasonic S 350 R has an outlet for bath draining that also enables particularly even sound field distribution due to its central arrangement.



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Elmasonic S 50 R

Elmasonic S 50 R and Elmasonic S 350 R

Only really clean sieves lead to reliable analysis results

The sieve analysis, a standard process in analytical, food and environment laboratories, functions perfectly if the last grain residues have been removed from the mesh. Elma has particular competence here, both for the intensive cleaning of individual sieves as well as for the preparation of up to 4 test sieves simultaneously.

The Elmasonic S 50 R and S 350 R with round designs have high ultrasound power that can be evenly distributed both horizontally as well as vertically. The machines thus provide optimum energy input. With its size, the Elmasonic S 350 R completes the Elma product range in the laboratory area.

Previously, the focus was on sieves from 7 up to 200 mm diameter; very large sieves up to 500 mm diameter can now also be cleaned in the new Elmasonic S 350 R.

The test sieve is loaded with the sieve holder for sieve cleaning. The special "sieve cleaning" function enables a effective and fast cleaning with ultrasonic shock waves.

This function switches back and forth between two ultrasound modes and causes active strong impulses with simultaneous independence from the fill level. The process is standardised, that is why it is repeatable and massively facilitates the daily work in the laboratory.



Elmasonic S 300H with sieve cleaning module SRH 4/200

Elma provides an electrically-operated rotation basket (SRH 4/200 sieve cleaning module) that can be inserted in the Elmasonic S 300(H) ultrasonic cleaner for cleaning a larger number of test sieves. By using Elma rotation equipment the throughput can be significantly increased.

Up to four sieves can be intensively cleaned of sieved product residues simultaneously in the SRH 4/200 sieve cleaning module.

Sieves from different manufacturers can be cleaned simultaneously in the universal adapter.

The baskets rotate during the cleaning. The adjusted angle ensures that the cleaned grains fall out automatically. The use of a residue-free rinsing cleaning agent afterwards can be required for cleaning in food laboratories. Elma lab clean N10 (not a hazardous product) is tried and tested for this.



The advantages at a glance

- Time- and cost-saving intensive cleaning of up to 4 test sieves simultaneous, diameter 200 / 203 mm, 8"
- Sieves from different manufacturers can be cleaned at the same time
- Gentle ultrasonic cleaning (in contrast to manual cleaning): does not change the fabric tension or the mesh size and the dimensional accuracy is still 100 %
- Thought-out and extensive range of accessories
- Environmentally-friendly cleaning in combination with Elma Lab Clean

Elmasonic S 350 R

Technical data

of the presented devices for sieve cleaning, sample preparation and degassing



Elmasonic S 50 R



Elmasonic S 350 R

	Elmasonic S 50 R	Elmasonic S 350 R	Elmasonic S 300 H	Elmasonic SRH 4/200
Max. tank capacity (l)	5.0	70.0	28.0	-
Filling level marks (l)	3 / 4 / 5	57	-	-
Ultrasonic frequency (kHz)	37	37	37	-
Power consumption total (W)	150	600	1500	-
Unit ext. dimensions D/H resp. W/D/H (mm)	304 / 335	650 / 455	568 / 340 / 321	580 / 260 / 300
Tank int. dimensions D/H resp. W/D/H (mm)	240 / 140	600 / 245	505 / 300 / 200	-
Basket internal dimensions D/H (mm)	220 / 70	545 / 70	-	-
For sieves up to (mm)	200	500	200	200 / 203
Weight (kg)	5.0	21.0	11.0	6.8



Elmasonic S 300 H



Sieve cleaning module SRH 4/200



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