Elmasonic S 50 R

Ultrasonic unit for the cleaning of analysing sieves, for the degassing of solvents and for all standard laboratory applications


Elmasonic S 50 R

Elma Order Nos.

Elmasonic S 50 R (230 V)	104 5437
Elmasonic S 50 R (115 V)	on request
Elmasonic S 50 R (100 V)	on request
Sieve holder / basket	104 6006
Plastic cover	104 6008

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

Sieve analysis as a standard process in the analytical laboratory or in the food and environmental laboratory works perfectly only if the particles are removed from the sieve to the last grain.
Sieve cleaning process: The analysing sieve supported by the sieve holder is placed into the ultrasonic tank. The special “sieve cleaning” programme uses two ultrasonic modes alternatingly which creates powerful cleaning pulses and leads to perfect cleaning results.

HPLC solvents are degassed in Erlenmeyer flasks or in 1-litre solvent bottles. The rear side of the Elmasonic S 50 R is fitted with a rack for a laboratory holder. The flask or bottle fixed to the holder is immersed into the tank filled with water and some surface-active agent. The special Degas mode degasses the liquid reliably within approx. 30 minutes. The gas is “collected” to form large bubbles which are taken to the surface and then out of the liquid in short operating breaks. The Degas mode can also be used for the degassing of samples in the food sector, e.g. for the removal of carbon dioxide.

Another feature is the ultrasonic mode “sample prep.” for standard applications such as mixing, dissolving, cleaning, etc.

Technical data

- automatic programmes with specially defined ultrasonic modes
- special efficient and noise-reduced Degas mode (gas liftout effect)
- high-performance 37 kHz transducer
- ultrasonic tank made of cavitation-resistant stainless steel
- user-friendly clearly arranged operating panel
- turning knob for setting continued and short-period 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
- detachable mains cable
- plastic carrying handles

Technical data

Mains voltage (Vac)	230 / 115 / 100	Max. filling capacity (litre)	5,3
Ultrasonic frequency (kHz)	37	Weight (kg)	5,0
Power consumption total (W)	150	Material tank	stainless steel
Ultrasonic power effective (W)	150	Material housing	stainless steel
Ultrasonic peak performance max.*(W)	600	Carrying handles	√
Outer dimensions dia / H (mm)	260 / 350	CE compliance	√
Tank internal dimensions dia / H	240 / 130	Protection class	IP 20
Basket internal dimensions dia /H (mm)	220 / 70		

*The signal form of the wave results in a factor 4 for the ultrasonic peak performance.