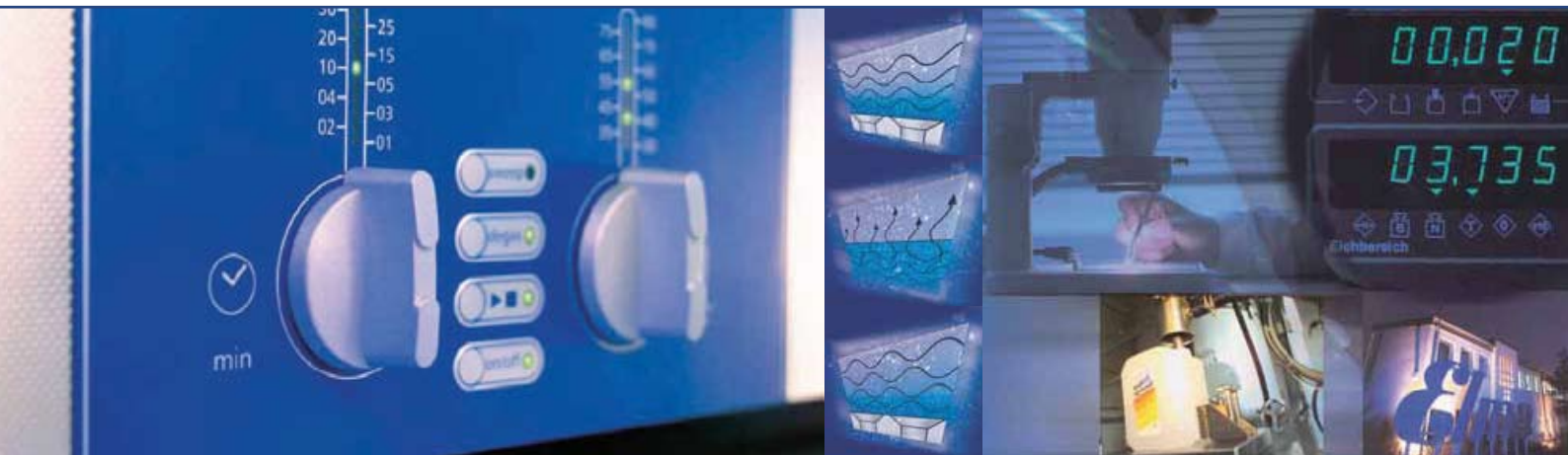




ELMASONIC S

Ultrasonic Cleaning Units



The sum of all possibilities

- Electronic time and temperature control
- Autostart temperature-controlled / temperature pre-selection
- High-performance transducer systems
- Dry run proof ceramic heating
- Quick degassing with Autodegas / Degas
- Improved cleaning performance with Sweep
- Safety switch-off

The Elmasonic S Series



Specific features for all business sectors

The Elmasonic S ultrasonic units offer practically every available technical future. After more than 50 years, cleaning by ultrasound in all its complexity has now obtained a new meaning. The new Elmasonic S units support the ultrasonic cleaning effect at an optimum.

The materials used and the reliable technology prolong the service life of the units. The new design combines more functionality with modern looks. The basis of nearly perfect cleaning processes with ultrasound is the Elma high-performance transducer system with 37 kHz. The sweep function, developed in the Elma laboratories, guarantees a homogeneous sound field distribution by way of continuous shifting of the sound field maxima. The degas function available on the new units accelerates very efficiently the degassing process in the cleaning liquid, particularly in freshly mixed baths. When used in tough permanent operation you will find that the new units with their functional design fully meet the demands of any cleaning task.

The 6 most important advantages of Elmasonic S at a glance

- Electronic time and temperature control
- Autostart temperature-controlled / Temperature pre-selection
- High-performance transducer systems
- Dry run proof ceramic heating
- Quick degassing with Autodegas / Degas
- Improved cleaning performance with Sweep
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Cleaning, degassing and dispersing in the lab

Cleaning in the dental and medical sectors

Ultrasound for ophthalmology and opticians

Cleaning of items in industry, workshops and service

Ultrasonic cleaning in the jewellery branch

Ultrasound in the watch-maker branch

Laboratory

Ultrasound cleans where ever the cleaning liquid can go. It is particularly suitable for the cleaning of laboratory instruments made of glass, plastic or metal. Elmasonic S units degass HPLC solutions, mix, disperse, emulsify and dissolve specimens.

Medical Sector

Thorough cleaning of surgical, medical and of micro-instruments without damaging the material, or cleaning of rigid endoscopes and flexible endoscopic accessories.

Dental Laboratory

Cleaning of instruments, removal of cement and plaster; cleaning of dental mould spoons, drills and prostheses. Cleaning of dentures, crowns and other prosthetic materials.

Jewellery

Cleaning and brightening up of gold, silver, platinum and fancy jewellery. Cleaning of precious, semiprecious and set stones.

Watch Sector

Cleaning of watch cases, mechanical parts and metal bracelets. Cleaning of clockworks.

Optician

Cleaning of complete glasses and optics. Intensive cleaning of spectacle pads and joints.

Workshop and Service

Intensive cleaning with alkaline, acid and neutral elma clean products in the workshop, for service works, for the final cleaning and ready for coating.

Industry

Cleaning in the mechanics, electronics and glass industries, automobile parts production and plating or other surface refinement processes. Gentle and intensive cleaning of items made of steel, light and nonferrous metals, plastics and glass.



Elmasonic S Ultrasonic Cleaning Units

Ultrasonic cleaning with state-of-the-art technology



Elmasonic S 30 H

- Mains voltage: 100 to 120 V or 220 to 240 V - 50/60Hz
- Power consumption total: 280 W
- Weight: 3.3 kg
- Inner dimensions: 240 x 137 x 100 mm (LxWxH)
- Outer dimensions: 300 x 179 x 214 mm (LxWxH)
- Tank filling volume: 2.75 Litres
- Ultrasonic frequency: 37 Hz
- Inner basket dimensions: 198 x 106 x 55 mm (LxWxH)
- Mesh size of basket: 7 x 1 mm



Elmasonic S 180 H

- Mains voltage: 100 to 120 V or 220 to 240 V - 50/60Hz
- Power consumption total: 1000 W
- Weight: 8.5 kg
- Inner dimensions: 327 x 300 x 200 mm (LxWxH)
- Outer dimensions: 390 x 340 x 321 mm (LxWxH)
- Tank filling volume: 18 Litres
- Ultrasonic frequency: 37 Hz
- Inner basket dimensions: 280 x 250 x 120 mm (LxWxH)
- Mesh size of basket: 9 x 1 mm



Elmasonic S 300 H

- Mains voltage: 100 to 120 V or 220 to 240 V - 50/60Hz
- Power consumption total: 1500 W
- Weight: 11 kg
- Inner dimensions: 505 x 300 x 200 mm (LxWxH)
- Outer dimensions: 568 x 340 x 321 mm (LxWxH)
- Tank filling volume: 28 Litres
- Ultrasonic frequency: 37 Hz
- Inner basket dimensions: 455 x 250 x 120 mm (LxWxH)
- Mesh size of basket: 9 x 1 mm

Practical Accessory Equipment



The true value of carefully developed products will be appreciated as soon as they are used. We have expanded the well-known range of accessory equipment for the Elmasonic S series. Baskets with plastic coated handles, jewellery rack with 10 adjustable hooks, cooling coil, clasps for Erlenmeyer flasks or the new cover are practical little helpers.

- Baskets for all unit sizes
- Plastic cover, except S 450H & S 900H
- Stainless-steel insert cover for 1 or 2 beakers
- Beakers
- Acid-proof tanks or Hostalen tanks
- Immersion baskets made of Hostalen or stainless steel
- Instrument holder or test tube rack
- Electric hot air dryer
- Instrument holder for 1 litre solvent flasks HPLC

After more than 50 years, cleaning by ultrasound in all its complexity has now obtained a new meaning.

Ultrasonic Cleaning Technology

Ultrasound: the technology that will measure up to any cleaning task. Today, the latest technology for cleaning tasks is cleaning by ultrasonic activity. The special advantage are perfect cleaning results in the quickest possible time; no additional work necessary and no damage to the cleaning items. Ultrasound is mechanical vibration. The human ear can perceive frequencies between 16 and 20000 Hz (vibrations per second). Ultrasonic vibrations begin beyond this range of human perception. Liquids can transmit high ultrasonic energies. Vibration and flow accelerate the cleaning effect on the cleaning items. This is what allows reproducible cleaning processes with optimum results.

The Elma range of standard ultrasonic cleaning equipment is the largest in the world. Based on long term experience, innovative development and specific know-how Elma produces state-of-the-art technology for all kinds of cleaning tasks. Elma is well known as solutions provider for even the most complicated applications. And our reputation is not only based on the development and manufacturing of the equipment, but also on our service and support. We also develop and produce a wide range of special machinery for the watchmaker and jewellery sector. The company has been certified to DIN EN 9001 standard and represents a business which operates customer-oriented and guarantees product-reliability on a very high level.

Technical Details

	H D W	S 10 / H	S 15 / H	S 30 / H	S 40 / H	S 60 / H	S 70 / H	S 80 / H	S 100 / H	S 120 / H	S 180 / H	S 300 / H	S 450H	S900H
Tank volume Max.	Litres	0.80	1.75	2.75	4.25	5.75	6.90	9.40	9.50	12.75	18.00	28.00	45.00	90.00
Tank Internal Dimensions	W x D x H mm	190x85x60	151x137x100	240x137x100	240x137x150	300x151x150	505x137x100	505x137x150	300x240x150	300x240x150	327x300x200	505x300x200	500x300x300	600x500x300
Tank External Dimensions	W x D x H mm	206x116x178	175x180x212	300x179x214	300x179x264	365x186x264	568x179x214	568x179x264	365x278x264	365x278x321	390x340x321	568x340x321	615x370x467	715x570x467
Weight	kg	2.00	2.10	3.30	4.00	5.10	5.60	6.40	5.90	7.50	8.50	11.00	on request	on request
Ultrasonic Frequency	kHz	37	37	37	37	37	37	37	37	37	37	37	37	37
Ultrasonic Peak Max.	W x D x H mm	240	280	320	560	600	600	600	600	800	800	1200	1600	3200
Heating Power	W x D x H mm	0/60	0/60	0/200	0/200	0/400	0/600	0/600	0/400	0/800	0/800	0/1200	1600	2000
Power Consumption Total	W x D x H mm	30/90	35/95	80/280	140/340	150/550	150/750	150/750	150/550	200/1000	200/1000	300/1500	2000	2800
Sweep		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Degas / Autodegas		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Carrying Handles		no	no	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓
Drain Duct / Diameter	inch	no	no	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	1/2"	1/2"
Accessories														
Basket Internal Dimensions	W x D x H mm	177x73x35	112x103x55	196x106x55	190x105x80	255x115x80	465x106x55	465x106x80	255x200x80	250x190x120	280x250x120	455x250x120	455x270x194	545x450x250
Basket Mesh Size	mm	7x1	7x1	7x1	7x1	9x1	9x1	9x1	9x1	9x1	9x1	9x1	9x1	16x1.2
Basket Load	kg	1	1	1	3	5	5	5	6	7	8	10	20	30



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