

Elmasonic S Ultrasonic cleaning units



Ultrasonic cleaning with state-of-the-art technology



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 ultrasonic units offer practically every available technical feature. Now the units of the new series increase the ultrasonic effect further to obtain even better results. 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. Autodegas is recommended before starting the cleaning process, Degas for special tasks. Both can be switched on by hand. 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 optional dry run proof heating supports the cleaning process.

The cleaning tanks are made of cavitation-resistant stainless steel.

The operating panel is user-friendly and arranged so that no liquid can enter the electronics.

The Degas function allows a quicker degassing of the cleaning liquid. Another advantage is the time-controlled „Autodegas“ function for the efficient degassing of freshly mixed cleaning liquids.

For safety reasons, the unit automatically switches off after 12 hours.

The removable mains cable with mains plug allows easy and safe transportation. (except S 450H & S 900H). Elmasonic S ultrasonic units in proven Elma quality „Made in Germany“

The cleaning process can be switched on by hand or automatically (temperature-controlled).

With the temperature turning knob the temperature can be set between 30° and 80°C in steps of 5°. Both set and actual temperature of the liquid are indicated by LED display. (excl. S 10 / H).

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.

■ Marking for filling line

■ The optional Sweep function guarantees an optimum sound field distribution in the cleaning bath due to a modulation of the frequencies.

■ The set cleaning period and the remaining cleaning time are both indicated by LED display. (excl. S 10 / H).

■ The turning knob for the pre-selection of the cleaning period can be turned to permanent operation or short-time operation.

■ The carrying handles are made of ergonomically shaped plastic.

■ The turning knob on the side allows an easy draining of the cleaning liquid through the drain duct on the back of the unit.

■ LED display temperature

■ Turning knob temperature



■ Degas function key

■ Start/Stop key Ultrasound

■ On/Off key Unit

■ The newly developed cover reduces the noise and accelerates the heating-up process.

When turned over, the cover can be used as drip-off basin. The collected cleaning liquid can be emptied back into the tank.

Technical specifications

		S 10 / H	S 15 / H	S 30 / H	S 40 / H	S 60 / H	S 70 / H	S 80 / H
Tank volume max.	liter	0,8	1,75	2,75	4,25	5,75	6,9	9,4
Tank volume max.	gal (approx.)	0,2	0,5	0,7	1,0	1,5	1,8	2,4
Tank internal dimensions	W x D x H mm	190x85x60	151x137x100	240x137x100	240x137x150	300x151x150	505x137x100	505x137x150
Tank external dimensions	W x D x H mm	206x116x178	175x180x212	300x179x214	300x179x264	365x186x264	568x179x214	568x179x264
Weight	kg (ca.)	2,0	2,1	3,3	4,0	5,1	5,6	6,4
Ultrasonic frequency	kHz	37	37	37	37	37	37	37
Ultrasonic peak max. *1)	W	240 *2)	280 *2)	320 *3)	560 *3)	600 *3)	600 *3)	600 *3)
Heating power	W	0 / 60	0 / 60	0 / 200	0 / 200	0 / 400	0 / 600	0 / 600
Power consumption total	W	30 / 90	35 / 95	80 / 280	140 / 340	150 / 550	150 / 750	150 / 750
Sweep		✓	✓	✓	✓	✓	✓	✓
Degas / Autodegas		✓	✓	✓	✓	✓	✓	✓
Carrying handles		no	no	✓	✓	✓	✓	✓
Drain duct / diameter	inch	no	no	3/8"	3/8"	3/8"	3/8"	3/8"
Order number								
with heating *4)	220-240 Vac	100 1214	100 2060	100 1955	100 2006	100 2238	100 2140	100 2170
without heating *4)	220-240 Vac	100 5507	100 4626	100 4631	100 4635	100 4643	100 4650	100 4652
Accessories:								
Basket internal dimensions	W x D x H mm	177x73x30	112x103x50	198x106x50	190x105x75	255x115x75	465x106x50	455x106x75
Basket mesh size	mm	7x1	7x1	7x1	7x1	9x1	9x1	9x1
Basket load	kg	1	1	1	3	5	5	5
		S 100 / H	S 120 / H	S 180 / H	S 300 / H	S 450H	S 900H	
Tank volume max.	liter	9,5	12,75	18	28	45	90	
Tank volume max.	gal (approx.)	2,5	3,4	4,7	7,4	11,9	23,8	
Tank internal dimensions	W x D x H mm	300x240x150	300x240x200	327x300x200	505x300x200	500x300x300	600x500x300	
Tank external dimensions	W x D x H mm	365x278x264	365x278x321	390x340x321	568x340x321	615x370x467	715x570x467	
Weight	kg (ca.)	5,9	7,5	8,5	11,0	on request	on request	
Ultrasonic frequency	kHz	37	37	37	37	37	37	
Ultrasonic peak max. *1)	W	600 *3)	800 *3)	800 *3)	1200 *3)	1600 *3)	3200 *3)	
Heating power	W	0 / 400	0 / 800	0 / 800	0 / 1200	1600	2000	
Power consumption total	W	150 / 550	200 / 1000	200 / 1000	300 / 1500	2000	2800	
Sweep		✓	✓	✓	✓	✓	✓	
Degas / Autodegas		✓	✓	✓	✓	✓	✓	
Carrying handles		✓	✓	✓	✓	✓	✓	
Drain duct / diameter	inch	3/8"	3/8"	3/8"	3/8"	1/2"	1/2"	
Order number								
with heating *4)	220-240 Vac	100 2279	100 2825	100 2877	100 3033	100 3908	100 3946	
without heating *4)	220-240 Vac	100 4655	100 4658	100 4662	100 4669	-	-	
Accessories:								
Basket internal dimensions	W x D x H mm	255x200x75	250x190x115	280x250x115	455x250x115	455x270x194	545x450x250	
Basket mesh size	mm	9x1	9x1	9x1	9x1	9x1	16x1,2	
Basket load	kg	6	7	8	10	20	30	

*1) the choice of the waveform has been matched to the relevant tank size. *2) impulse waveform

*3) Standard sine-wave modulation *4) Units also available with 100-120 Vac (except S 450H & S 900H)

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