

## **Elmasonic Select**

Ultrasonic cleaning devices



### Scope of delivery

- Q Cover / drip tray (Elmasonic Select 30 300); Stainless steel cover or Sound-protection cover (Elmasonic Select 500 / 900)
- Q Operating manual
- Q Power cable with rubber connector (2 m length)
- Q Hose connection grommet (from Elmasonic Select 60), drain hose not included

Technical specifications serve as orientation values and are subject to tolerances due to production and manufacturing. Proper operation can only be guaranteed when using original Elma accessories.

Elma Schmidbauer GmbH · Gottlieb-Daimler-Str. 17 · 78224 Singen (Germany) · Tel. +49 7731 882-0 · Fax +49 7731 882-266 · www.elma-ultrasonic.com

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# **Product Information Prics**



### **Elmasonic Select**

#### **Product features and functions**

Q 37 kHz ultrasonic frequency (control range -2,5/+5,5 kHz)							

- a 5 ultrasonic modes for need-based sound field distribution in the ultrasonic bath
- a eco-mode: Gentle cleaning with quieter operation by running the sweep-mode at a slightly lower intensity
- a sweep-mode: Even cleaning through even sound field distribution in the ultrasonic bath
- a pulse-mode: Removal of even stubborn contamination through pulsating sound field distribution
- a dynamic-mode: Combination of the ultrasonic modes sweep and pulse in order to increase the cleaning performance
- a degas-mode: Quick degassing of the cleaning liquid and for special applications in the laboratory
- a 4 memory locations for cleaning programs, available via quick selection
- Q Autostart function for temperature-controlled start of cleaning
- Q Adjustable limit temperature from 40-60 °C (can be switched to °F)
- Q Digital control unit with wipeable membrane keyboard and easy-to-read display for displaying all operating states
- Q Optical and acoustic feedback, e.g. at the end of cleaning or when the limit temperature is reached
- Q Pre-selection of cleaning time: cleaning time adjustable between 1 minute and 6 hours
- Q Electronic temperature control adjustable in steps of 5 °C from 25-80 °C (can be switched to °F; temperature tolerance -5/+8 °C)
- Q Setup menu for individual adjustment of the device functions
- a Dry run protection (except for Elmasonic Select 500 and 900)
- Q Automatic safety shutdown after 8 hours
- $\ensuremath{\mathtt{Q}}$  Splash-proof case and cleaning tank made of stainless steel
- Q Shut-off valve on the side for emptying the cleaning tank via the outlet on the rear of the device (only for Elmasonic Select 60 to 300)
- Q Shut-off valve and outlet on the side of the device for emptying the cleaning tank (only for Elmasonic Select 500 and 900)
- Q 2-year warranty from the initial operation, but no longer than 3 years from the production date

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# **Elmasonic Select**

### **Technical Data - Mechanics**

Elmasonic Select 30		40	60	80	100	120		
Total capacity V (I)	2,7	3,9	5,9	9,3	9,5	12,9		
ecom. operating capacity V <sub>a</sub> (I) 1,6		2,9	4,3	6,8	6,8	10,0		
Unit ext. dimensions W/D/H (mm) 305/170/230		305/170/280	370/210/275	570/195/280	380/300/280	380/300/330		
Opening dimensions W <sub>3</sub> /D <sub>3</sub> (mm) 235/135		235/135	295/145	500/135	295/235	275/235		
Tank int. dimensions W <sub>1</sub> /D <sub>1</sub> /H <sub>1</sub> (mm) 220/120/95		215/115/145	275/125/145	475/110/145	280/220/145	300/215/195		
Weight incl. cover (kg) 3,6		3,8	5,2	6,9	6,2	7,7		
Drain hose - ID (mm)			12,0					
Basket int. dimensions W <sub>4</sub> /D <sub>4</sub> /H <sub>4</sub> (mm) 195/105/50		190/105/75	255/115/75	255/115/75 455/106/75		250/190/110		
Total basket loading (kg) 1,0		3,0	5,0 5,0		6,0	7,0		



## **Elmasonic Select**

### **Technical Data - Mechanics**

Elmasonic Select 150		180	300	500	900	
Total capacity V (I) 14,6		17,8	27,5	49,7	89,0	
Recom. operating capacity V <sub>a</sub> (I) 8,7		14,2	22,0	40,3	63,7	
Unit ext. dimensions W/D/H (mm) 575/360/230		405/360/330 575/360/330		775/425/505	875/595/505	
Unit ext. dimensions with open noise protection cover W/D <sub>2</sub> /H <sub>2</sub> (mm)			775/510/975	875/640/1145		
Opening dimensions W <sub>3</sub> /D <sub>3</sub> (mm)	500/395	325/295	500/395			
Tank int. dimensions W <sub>1</sub> /D <sub>1</sub> /H <sub>1</sub> (mm)	485/280/95	300/370/195	475/270/195	500/330/290	600/500/285	
Weight incl. cover (kg) 8,8		10,2	12,2	30,4	43,4	
Weight incl. noise protection cover (kg)	'	34,7	49,3			
Drain hose - ID (mm)		12,0	19,0			
Basket int. dimensions W <sub>4</sub> /D <sub>4</sub> /H <sub>4</sub> (mm)	455/250/45	280/250/115	455/250/110	460/300/195	545/460/190	
Total basket loading (kg)	7,0	8,0	10,0	20,0	30,0	

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## **Elmasonic Select**

### **Technical Data - Electronics and noise levels**

Elmasonic Select	30	40	60	80	100	120	150	180	300	500	900	
Mains voltage (V~)	ns voltage (V~) 220-240											
Mains frequency (Hz)	50											
Power consumption total (W)	3	320	550	750	550	1000	1100	1000	1500	2140	2960	
Ultrasonic power effective ±10% (W)	1	120	150	150	150	200	300	200	300	540	960	
Ultrasonic peak power max.** (W)	2	180	600	600	600	800	1200	800	1200	2160	3840	
Heating power (W)	2	200	400	600	400	800	800	800	1200	1600	2000	
Temperature (°C)												
Protection class	IP 20											
Sound pressure level (LpAU)*** < 80 dB												
Ultrasonic sound level (LpZ)***	< 110 dB											

<sup>\*\*</sup> The signal form of the wave results in a factor 4 for the ultrasonic peak max., depending on the modulation of the wave.

<sup>\*\*\*</sup> Measured sound pressure level with basket and cover at 1 m distance.

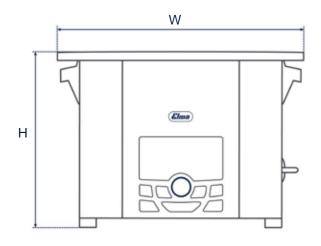


## **Elmasonic Select**

### **Dimension definition**

### Unit outer dimensions

Elmasonic Select 30 - 300

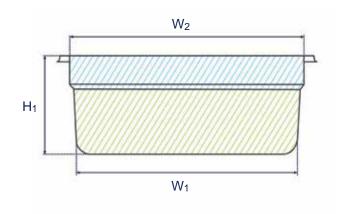


### Tank internal dimensions

Elmasonic Select 30 - 300

V: recommended operating capacity of the cleaning tank

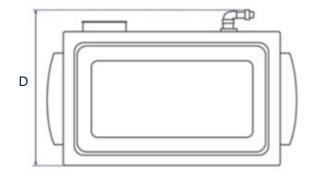
<sup>a</sup> (The actual operating capacity depends on the load.)

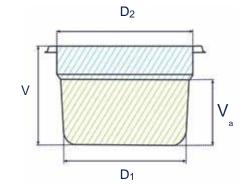


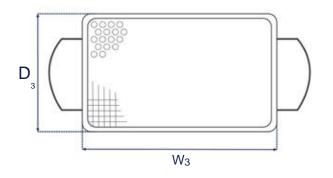
### Basket internal dimensions

Elmasonic Select 30 - 900









The drawings are merely included as a visualization aid and are not true to scale.

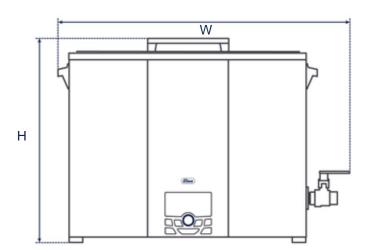


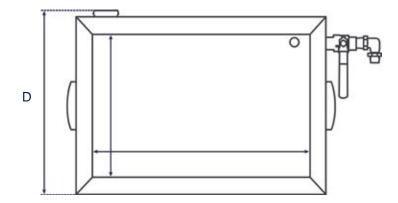
## **Elmasonic Select**

### **Dimension definition**

#### Unit outer dimensions

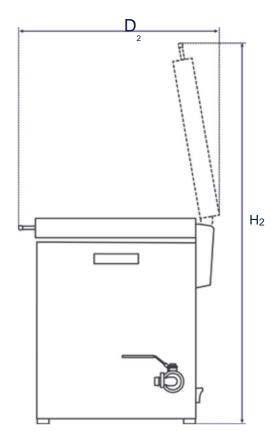
Elmasonic Select 500 / 900





#### Unit outer dimensions

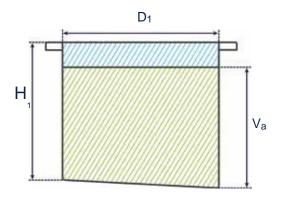
Elmasonic Select 500 and 900 with noise protection cover

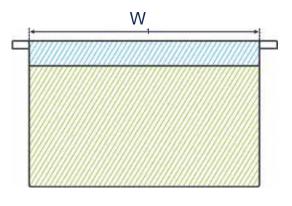


### Tank internal dimensions

Elmasonic Select 500 / 900

V<sub>a</sub>: recommended operating capacity of the cleaning tank (The actual operating capacity depends on the load.)





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