

Ultrasonic cleaning according to the latest laws.

# Elmasonic Med\*



Elmasonic Med is the series of efficient ultrasonic cleaning devices associated with the reliable precleaning of medical, dental and surgical instruments and implants. With an ultrasonic frequency of 37 kHz it is possible to remove even the stubbornest of contamination.\*\*

Suitable for various applications, Elmasonic Med cleaning devices have tank volumens from 3 to 90 litres (only Med 30 without drain). The applicationspecific cleaning chemistry developed by Elma together with practical accessories like baskets, tray holders, etc. ensure the best cleaning results.

# **Developed for**

Medical centres • Hospitals • Dental practices • Central sterile supply departments • Dental laboratories • Tattoo and piercing studios • Foot care salons







### Cleans

Surgical, medical or dental instruments • Protheses and implants • Instruments from the fields of podiatry, tattooing and piercing







## Removes

Blood, tissue and bone residues • Fats • Secretions • Dentinal debris • Tartar • Basale deposits • Alginates and plasters • Grinding and polishing pastes • Waxes • Flux • Cements • Callus and skin residues • Other contaminations

<sup>\*\*</sup>Elmasonic Med does on principle NOT replace preparation in the cleaning and disinfection device.



# Clean



### MDR compliant

Elmasonic Med devices are registered as Class I medical products in line with the MDR directive (EU) 2017/745.

### Clean design

Stainless steel surfaces are easy to clean; display and membrane keyboard can be wiped clean. The modern design is impressive.



# Intelligent 5 individual ultrasonic modes

degas: Quick degassing eco: Quiet, energy efficient, long device service life sweep: More consistent ultrasonic cleaning pulse: For the stubbornest of contamination

dynamic: Automatic change between pulse and sweep for even better cleaning outcomes



### Save own programmes

Four individual cleaning programmes can be saved in the menu and activated via quick selection - for reliable processes and reproducible cleaning results.

# **Easy**



### Intuitive and user-focused

The clear and easily legible display allows straightforward and precise setting of the cleaning parameters.



### Feedback from the device

The user is kept constantly up to date with the operating state thanks to displays and warning messages e.g. at the end of cleaning or on reaching the limit temperature.

# Safe



### Smart technology

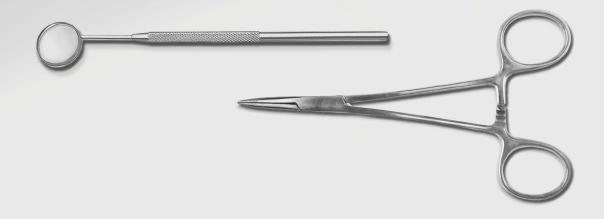
The limit temperature can be set individually. This helps to prevent the denaturation of protein. Valuable instruments are protected and perfectly cleaned.



### **User protection**

The plastic cover ensures a quieter working environment as a result of reduced operating noise. It also serves as a practical drip tray for basket and parts following cleaning.





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Subject to technical and optical changes. Elmasonic Med\_EN\_07\_20

\*Medical Product Class 1 according to MDR (EU) 2017/745. Please observe the laws and legal regulations applicable in your country.

# **Elma**

# **Product Information and Prices**

### Elmasonic Med<sup>\*</sup>

### Product features and functions

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

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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.

# **Slma**)

# **Product Information and Prices**

# **Elmasonic Med**<sup>\*</sup>

### **Technical Data - Mechanics**

| Elmasonic Med   | 30          | 60          | 100         | 120         | 180         | 200         | 300         | 500         | 900          |
|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|
| Total capacity V (I)  | 2,7         | 5,9         | 9,5         | 12,9        | 17,8        | 22,7        | 27,5        | 49,7        | 89           |
| Recom. operating capacity V <sub>a</sub> (I)  | 1,6         | 4,3         | 6,8         | 10,0        | 14,2        | 13,0/18,0   | 22,0        | 40,3        | 63,7         |
| Unit ext. dimensions W/D/H (mm)   | 305/170/230 | 370/210/275 | 380/300/280 | 380/300/330 | 405/360/330 | 600/385/280 | 575/360/330 | 770/425/505 | 870/595/505  |
| Unit ext. dimensions with open sound protection cover W/D <sub>2</sub> /H <sub>2</sub> (mm) |             |             |             |             |             |             |             | 770/510/975 | 870/640/1145 |
| Opening dimensions W <sub>3</sub> /D <sub>3</sub> (mm)                                      | 235/135     | 295/145     | 295/235     | 275/235     | 325/295     | 505/300     | 500/395     |             |              |
| Tank int. dimensions W <sub>1</sub> /D <sub>1</sub> /H <sub>1</sub> (mm)                    | 220/120/95  | 275/125/145 | 280/220/145 | 300/215/195 | 300/270/195 | 505/300/150 | 475/270/195 | 500/330/290 | 600/500/285  |
| Weight incl. cover (kg)   | 3,6         | 5,2         | 6,2         | 7,7         | 10,2        | 12,2        | 12,2        | 30,4        | 43,4         |
| Weight incl. sound 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)                  | 195/105/50  | 255/115/75  | 255/200/70  | 250/190/110 | 280/250/115 | 490/255/95  | 455/250/110 | 460/300/195 | 545/460/190  |
| Total basket loading (kg)   | 1,0         | 5,0         | 6,0         | 7,0         | 8,0         | 4,0         | 10,0        | 20,0        | 30,0         |

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# **Product Information and Prices**



# Elmasonic Med<sup>\*</sup>

### Technical Data - Electronics and noise levels

| Elmasonic Med                       | 30   | 60  | 100 | 120  | 180  | 200  | 300  | 500  | 900  |  |
|-------------------------------------|--|-----|-----|------|------|------|------|------|------|--|
| Mains voltage (V~)                  | 220-240  |     |     |      |      |      |      |      |      |  |
| Mains frequency (Hz)                | 50/60  |     |     |      |      |      |      |      |      |  |
| Power consumption total (W)         | 320  | 550 | 550 | 1000 | 1000 | 1100 | 1500 | 2140 | 2960 |  |
| Ultrasonic power effective ±10% (W) | 120  | 150 | 150 | 200  | 200  | 300  | 300  | 540  | 960  |  |
| Ultrasonic peak power max.** (W)    | 480  | 600 | 600 | 800  | 800  | 1200 | 1200 | 2160 | 3840 |  |
| Heating power (W)                   | 200  | 400 | 400 | 800  | 800  | 800  | 1200 | 1600 | 2000 |  |
| Temperature (°C)                    | 25-80  |     |     |      |      |      |      |      |      |  |
| Protection class                    | IP 20  |     |     |      |      |      |      |      |      |  |
| Sound pressure level (LpAU)***      | <80 dB   |     |     |      |      |      |      |      |      |  |
| Ultrasonic sound level (LpZ)***     | 30 60 100 120 180 200 300 500 900  220-240  50/60  320 550 550 1000 1000 1100 1500 2140 2960  120 150 150 200 200 300 300 540 960  480 600 600 800 800 800 1200 1200 2160 3840  200 400 400 800 800 800 800 1200 1600 2000  25-80  IP 20 |     |     |      |      |      |      |      |      |  |

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

\*\*\* Measured sound pressure level with basket and cover at 1 m distance.

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# **Product Information and Prices**

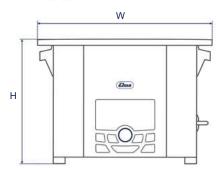


# Elmasonic Med<sup>\*</sup>

# **Dimension definition**

### Unit outer dimensions

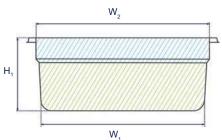
Elmasonic Med 30 - 300



### Tank internal dimensions

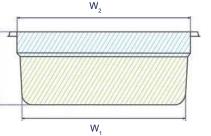
Elmasonic Med 30 - 300

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

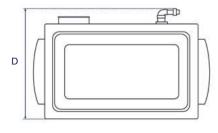


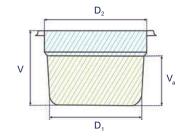
#### Basket internal dimensions

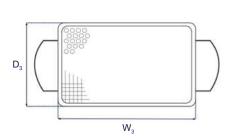
Elmasonic Med 30 - 900











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

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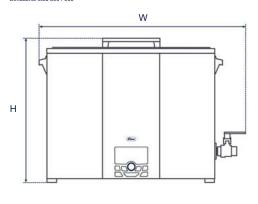


# Elmasonic Med<sup>\*</sup>

### **Dimension definition**

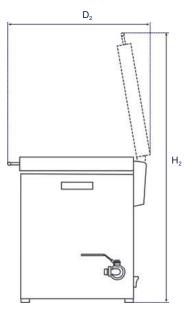
### Unit outer dimensions

Elmasonic Med 500 / 900



# Unit outer dimensions

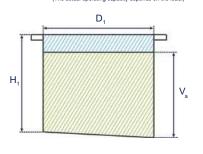
Elmasonic Med 500 / 900 with sound protection cover

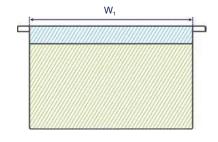


### Tank internal dimensions

Elmasonic Med 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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