

# Product Information



## Elmasonic Med\*

Ultrasonic cleaning devices

registered as class I medical devices according to the Medical Devices Regulation (EU) 2017/745.



### Order numbers

| Elmasonic Med              | 30        | 60        | 100       | 120       | 150       | 180       | 300       | 500       | 900       |
|----------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Order number<br>220-240 V~ | 1097278-C | 1100677-C | 1098774-C | 1099984-C | 1100686-C | 1100688-C | 1098779-C | 1079529-C | 1079227-C |
|                            |           |           |           |           |           |           |           |           |           |

### Scope of delivery

|  |
|--|
| ■ Lid  |
| ■ Operating manual   |
| ■ Power cable with rubber connector (2 m length)                             |
| ■ Hose connection grommet (except Elmasonic Med 30), 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.

## Elmasonic Med\*

### 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
  - 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 and 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 to 300)
- Shut-off valve and outlet on the side of the device for emptying the cleaning tank (only for Elmasonic Med 500 and 900)
- 1-year warranty

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# Product Information



## Elmasonic Med\*

### Technical Data - Mechanics

| Elmasonic Med                                | 30          | 60          | 100         | 120         | 150         | 180         | 300         | 500         | 900         |
|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Recom. operating capacity V <sub>a</sub> (l) | 1,6         | 4,3         | 6,8         | 10,0        | 8,7         | 14,2        | 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 | 575/360/230 | 405/360/330 | 575/360/330 | 770/495/505 | 870/665/505 |
| Tank int. dimensions W/D/H (mm)              | 220/120/95  | 275/125/145 | 280/220/145 | 300/215/195 | 485/280/95  | 300/370/195 | 475/270/195 | 500/330/290 | 600/500/285 |
| Weight incl. cover (kg)                      | 3,6         | 5,2         | 6,2         | 7,7         | 8,8         | 10,2        | 12,2        | 28,0        | 43,0        |
| Drain hose - ID (mm)                         | -           | 12,0        |             |             |             |             |             | 19,0        |             |

### Technical Data - Electronics and noise levels

| Elmasonic Med                               | 30      | 60  | 100  | 120  | 150  | 180  | 300  | 500  | 900 |
|---|---------|-----|------|------|------|------|------|------|-----|
| Mains voltage (V~)                          | 220-240 |     |      |      |      |      |      |      |     |
| Mains frequency (Hz)                        | 50/60   |     |      |      |      |      |      |      |     |
| Power consumption total (W)                 | 320     | 550 | 1000 | 1100 | 1000 | 1500 | 2080 | 2960 |     |
| Ultrasonic power effective $\pm 10\%$ (W)   | 120     | 150 | 200  | 300  | 200  | 300  | 480  | 960  |     |
| Ultrasonic peak power max* (W)              | 480     | 600 | 800  | 1200 | 800  | 1200 | 1920 | 3840 |     |
| Heating power (W)                           | 200     | 400 | 800  | 800  | 800  | 1200 | 1600 | 2000 |     |
| Temperature (°C)                            | 25-80   |     |      |      |      |      |      |      |     |
| Protection class                            | IP 20   |     |      |      |      |      |      |      |     |
| Sound pressure level (L <sub>pAU</sub> )**  |         |     |      |      |      |      |      |      |     |
| Ultrasonic sound level (L <sub>pZ</sub> )** |         |     |      |      |      |      |      |      |     |

\*\* 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.

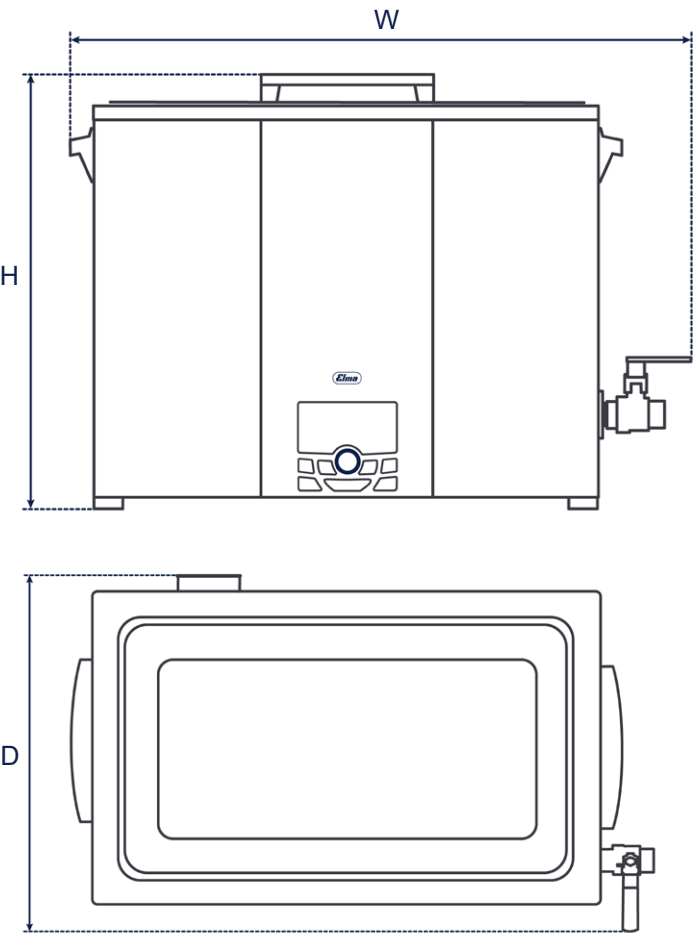
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## Elmasonic Med\*

### Dimension definition

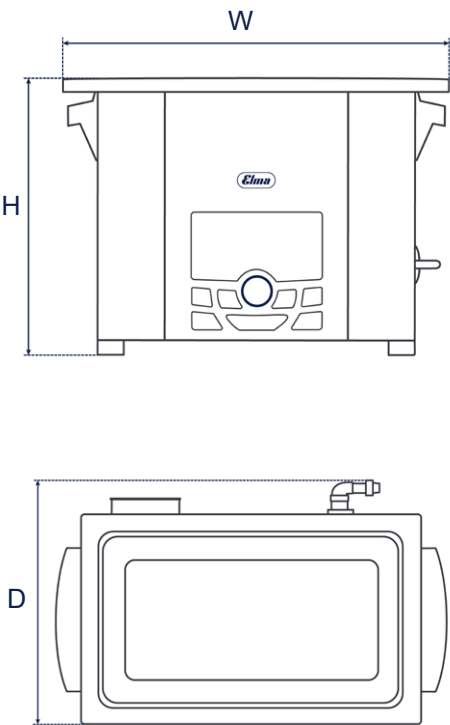
#### Unit outer dimensions

Elmasonic Med 500 und 900



#### Unit outer dimensions

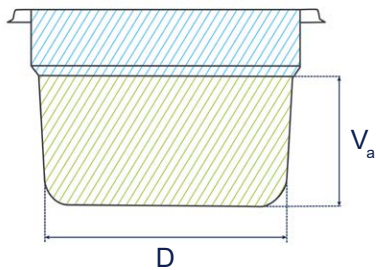
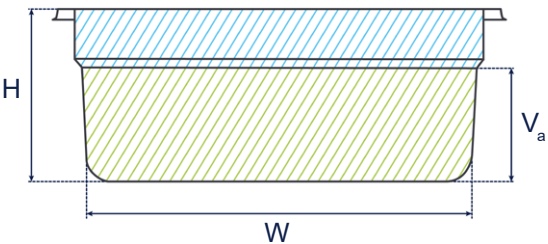
Elmasonic Med 30 bis 300



#### Tank internal dimensions

Elmasonic Med 30 bis 900

$V_a$ : recommended operating capacity of the cleaning tank  
(The actual operating capacity depends on the load.)



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

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