



Ultrasonics.Steam.Ultraclean.



Ultrasonic Cleaning Units

## Elmasonic P

The most professional way to use ultrasound

- Multi-frequency units with 37 kHz and 80 kHz, available in 6 different sizes for typical and difficult analysing and cleaning applications
- 7 special ultrasonic features and intuitive, user-friendly operation display
- power-controlled ultrasound with high energy density for difficult applications (low frequency) or gentle and quiet for the cleaning of capillaries and small items (high frequency)

[www.elma-ultrasonic.com](http://www.elma-ultrasonic.com)

# Elmasonic P with multi-frequency

The units of the Elmasonic P ultrasonic series are ideal helpers for all applications in analytical and medical laboratories as well as for applications in the industrial production. 6 different unit sizes are available. The practical units are easy to operate with a clearly arranged display showing all set and actual parameters. Several special features make the units perfect for intensive cleaning applications and for laboratory jobs.

## Multi-frequency

- Standard applications are carried out at **37 kHz**. All units are considerably more powerful than conventional ultrasonic units. If the high energy density should prove too strong for individual cleaning jobs, it can be reduced electronically.
- Operating the unit at **80 kHz** prolongs the cleaning time and is ideal for the treatment of very small and sensitive items. Even tiny capillaries are reached by the imploding microscopic cavitation bubbles. A positive side effect is the comfortably low noise level at this frequency

## Unit Features

- Normal: for laboratory applications, e.g. mixing, dissolving and dispersing
- Pulse-function: activatable additional power through increased peak performance
- Sweep: for a uniform distribution of the ultrasonic power throughout the tank
- Degas: for the quick degassing of samples and HPLC solvents.
- Power control: optimised power regulation for special cleaning and laboratory applications
- Pause: interrupts the operation
- Auto-Start: automatic start when set temperature is reached

## Technical Data

	P 30 H	P 60 H	P 70 H	P 120 H	P 180 H	P 300 H
Ultrasonic frequency (kHz)	37 / 80	37 / 80	37 / 80	37 / 80	37 / 80	37 / 80
Ultrasonic power effective (W)	120 / 100	180 / 150	220	330	330	380
Ultrasonic peak power (W)	480 / 400	720 / 600	880	1320	1320	1520
Heating power (W)	250	500	750	1000	1000	1250
Power consumption total (W)	370 / 350	680 / 650	970	1330	1330	1630
Voltage (V)	115–120 or 220–240	115–120 or 220–240	115–120 or 220–240	220–240	220–240	220–240
Volume (l)	2.75	5.75	6.9	12.75	18.0	28.0
Unit external dimensions W/H/D (mm)	300 / 179 / 221	365 / 186 / 271	568 / 179 / 221	365 / 278 / 321	390 / 340 / 321	568 / 340 / 321
Tank internal dimensions W/H/D (mm)	240 / 137 / 100	300 / 151 / 150	505 / 137 / 100	300 / 240 / 200	327 / 300 / 200	505 / 300 / 200
Basket internal dimensions W/H/D (mm)	198 / 106 / 50	255 / 115 / 75	465 / 106 / 50	250 / 190 / 115	280 / 250 / 115	455 / 250 / 115
Drain duct V4A	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"



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