



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)

# 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	115–120 or 220–240	115–120 or 220–240	115–120 or 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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