



## Fisherbrand® 112xx series

**new definition for state of the art**

- multi-frequency units with 37 kHz and 80 kHz, available in 6 different sizes for typical and difficult sample preparation and cleaning applications
- 7 special ultrasonic features, easy and intuitive operation and setting
- easy to read 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)



## Fisherbrand 112xx series

The new FB 12xx ultrasonic series is the ideal support for all applications in analytical and medical laboratories and in the industrial production. Six different unit sizes are available. The units are easy to operate with a clearly arranged display showing all set and actual parameters. Several special features do make the units perfect for intensive cleaning applications or laboratory applications.

### Multi-frequency at 37 or 80 kHz

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 sample preparation, e.g. mixing, dissolving and dispersing

**Pulse** - 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

	FB11201	FB11203	FB11205	FB11207	FB11209	FB11211
Tank max. capacity (litre)	2.75	5.75	6.9	12.75	18.0	28.0
Tank internal dimensions W/H/D (mm)	240x137x100	300x151x150	505x137x100	300x240x200	327x300x200	505x300x200
Unit external dimensions W/H/D (mm)	300x179x221	365x186x271	568x179x221	365x278x321	390x340x321	568x340x321
Basket (accessory) internal dim. W/H/D (mm)	198x106x50	255x115x75	465x106x50	250x190x115	280x250x115	455x250x115
Voltage (V)	115-120 220-240	115-120 220-240	115-120 220-240	220-240	220-240	220-240
Power consumption total (W)	320/300	580/550	820	1130	1130	1580
Ultrasonic frequency	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
Sweep	integrated	integrated	integrated	integrated	integrated	integrated
Pulse	activatable	activatable	activatable	activatable	activatable	activatable
Heating power (W)	200	400	600	800	800	1200
Drain duct V4A (")	3/8	3/8	3/8	3/8	3/8	3/8