

Ultrasonic homogenizer, Sonopuls HD 3100



SONOPULS homogenisers with integrated amplitude control 10-100 % and actual value display, pulsation, AMPLICHRON®-System, built-in timer, remote controlled. CE-marked, also as medical device compliant to the directive for in-vitro diagnostics 98/79/EG. HD 3100, HD 3200 und HD 3400 with power control, temperatur and energy monitoring, 9 user programs and PC control.

SONOPULS HD 3100, HD 3200 und HD 3400 for research:

Fields of application

- Disruption of cells, bacteria, virus, tissue
- Production of emulsions
- Homogenization of substances
- Sample preparation for HPLC
- Degassing of fluids
- Sample preparation for particle size analysis

Ultrasonic Homogeniser SONOPULS HD 3100

- For volumes from 1 to 2500 ml.
- High tech for research.
- Time modes: 9 h: 59 min: 59 s, continuous or timed.
- Safety shut down: 9 h: 59 min: 59 s.
- Ready-to-operate basic equipment for volumes from 2 to 50 ml consisting of generator GM 3100, ultrasonic converter UW 3100, stepped standard horn SH 70 G and microtip MS 73, Ø 3 mm.
- Display: graphic / alphanumeric liquid, crystal display of amplitude, pulsation mode, time, energy, **optionally** temperature.
- Menu guided: setting of all values through 'push and turn'.
- 9 user programmes, with software WINPULS®: 99.
- Remote control with PC: RS232 (infrared).
- Error diagnosis, automatic storage of the last adjusted values, operating test.
- Remote control: foot switch.

Technical data:

SONOPULS HD3100 Ultrasonic Homogenizer	
Amplitude Control	10-100%
Power Control	Yes (HF Power)
Automatic Amplitude Limiting	Yes - after preselection of probe
Pulsation	ON cycles 0,1 / 0,2 - 600s OFF cycles 0,2 / 0,3 - 600s
Time Modes	99min 9s continuous or timed
Display	Graphic / alphanumeric LCD for amplitude, pulsation mode, time, energy & optionally temperature
Menu Guided	Comfortable setting of all values through "push & turn"
Energy Monitoring	in kJ
Temperature Monitoring	Optionally, 0-120°C - temperature sensor necessary, warning signal or alternatively cut-off
User Programs	9, with software WINPULS®:99
Remote Control	over RS232 with IR adaptor
PC Software	Optional WINPULS for controlling & documentation

Operating Test	Yes
Error Diagnosis	Yes
HF Generator	GM3100
Dimensions mm	250 x 256 x 154
Weight kg	2.0
Power Supply	230v 50/60Hz (optional selector for 115v)
Convertor	UW3100
Dimensions mm	Ø / dia 70 x 120
Weight Kg	1.0
Available Titanium Probes	2,3,6,13