

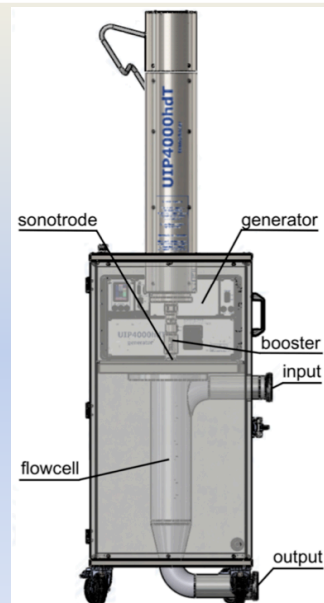
UIP4000hdT – Powerful Industrial Ultrasonic Device

www.hielscher.com/ui4000hdT

Ultrasonic
Processor
UIP4000hdT



UIP4000hdT (4kW, 20kHz)



UIP4000hdT transducer cabinet and generator

Technical
Details

Ultrasonic processor UIP4000hdT (4000W, 20kHz) consisting of transducer and generator; digital control, color touch display, intelligent data recording on internal SD card, automatic frequency tuning, amplitude 25 micron, amplitude adjustable from 20 to 100%, dry running protected, remote control via browser on PC or MAC without software installation, transducer IP65 grade, titanium horn

Applications

Homogenization, Dispersing & Deagglomeration (e.g. nano particles), Wet-milling & Grinding (e.g. nano materials), Nano-Emulsions, Lysis & Cell Disintegration, Extraction, Sonochemistry & Sonocatalysis

Advantages

Effectiveness: High-power, high performance ultrasonic device with 4000 watts power, various recirculation setups for continuous processing
Reproducibility: Exact reproducibility by full control over the parameters „Amplitude, Pressure, Temperature, Viscosity, and Concentration“
Scalability: All results achieved can be scaled up linearly.
Industrial Grade: Full industrial grade, for heavy-duty operation and permanent use 24 hours per day (24h/7d), scale-up by cluster installation

Items & accessories available:

- Ultrasonic processor UIP4000hdT consisting of transducer and generator
- various block sonotrodes
- various Cascatrodes
- various flow cells and reactors w/ cooling jacket
- pressure sensor
- various booster horns
- Sound protection cabinet



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