ULTRASONIC BATHS UR

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The ultrasonic bath range UR includes three sizes for **cleaning test sieves and grinding tools quickly and easily.** UR 1 is for test sieves up to 203 mm dia., UR 2 for test sieves up to 450 mm dia., and the UR 3 for the simultaneous cleaning of up to 5 test sieves 200/203 mm dia. The gentle yet thorough cleaning of test sieves in an ultrasonic bath **increases their working lives** as damage which could occur during manual cleaning is avoided.
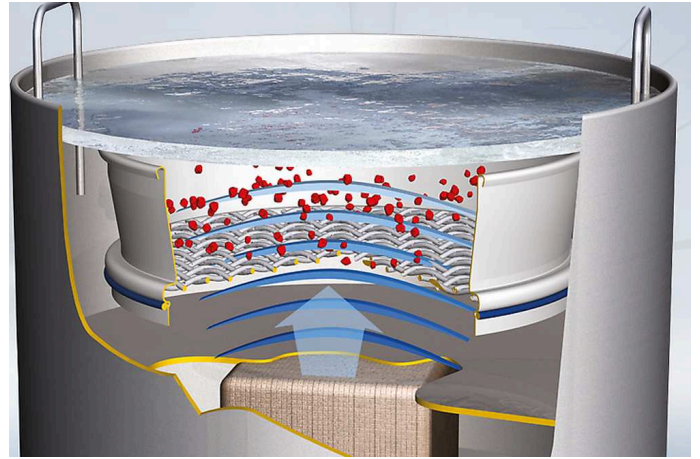
PRODUCT ADVANTAGES

- fast, gentle, and highly efficient cleaning
- universal and compact
- easy to use, saves time and cost
- intensive dispersion and degassing
- low maintenance
- long life

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FEATURES

Applications	cleaning, dispersion, degassing
Feed material	sieves, glass and metal components, suspensions
Batch size / feed quantity*	UR 1: 1 sieve 200 x 50 mm, 8" x 2" UR 2: 1 sieve 450 x 100 mm UR 3: 5 sieves 200 x 50 mm, 8" x 2"
Time setting	0 - 15 min
Container volume	UR 1: 5.7 l UR 2: 42 l UR 3: 45 l
Oscillating tank Ø x H / W x H x D	UR 1: 24.5 x 13 cm UR 2: 52 x 20 cm UR 3: 50 x 30 x 30 cm
HF continuous maximum output	UR 1: 35 kHz, 2 x 240 W UR 2: 35 kHz, 2 x 600 W UR 3: 35 kHz, 2 x 1000W
Electrical supply data	different voltages
Power connection	1-phase
W x H x D	UR 3: 630 x 530 x 350 mm
Ø x H / W x H x D	UR 1: 260 x 260 mm UR 2: 570 x 460 mm
Net weight	UR 1: ~ 5 kg UR 2: ~ 21 kg UR 3: ~ 27.5 kg
Standards	CE

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FUNCTIONAL PRINCIPLE

A high-frequency generator in the ultrasonic bath produces about 35000 oscillations per second, which are transferred into the cleaning solution and cause it to resonate. The energy density of the sound field is so high that a cavitation effect sets in. Innumerable extremely small vacuum bubbles develop in the ultrasonic bath and collapse in microseconds due to pressure and suction. The pulses triggered by this remove dirt particles even at the deepest, least accessible places or they result in homogenisation, dispersion and degassing.

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