

**SONOREX
SONOPULS**

High-power ultrasound
in laboratories



Cleaning
Degassing
Emulsifying
Cell disruption
Homogenizing
Sample preparation



BANDELIN

60 years of experience in ultrasound

Special devices

SONOREX DIGITEC DT... F

flat ultrasonic baths with fast degassing function for sample preparation

Uniform sonication of samples irrespective of size and arrangement of the flasks. Homogenizing or fast degassing of samples at the push of the button – sample preparation in laboratory flasks.

Internal tank dimensions (l x w x d) mm	Capacity litres	Type	Code No.	External dimensions (l x w x h) mm	Drain ball valve	Ultrasonic peak output * W	HF output W _{eff}	Current consumption A	Weight net kg
300 × 240 × 65	4.3	DT 510 F	3242	325 × 265 × 195	G ½	560	140	0.7	5.2
500 × 300 × 65	9.5	DT 1028 F	3243	535 × 325 × 205	G ½	1280	320	1.4	9.7

*4 times higher than HF output caused by modulation of ultrasound – SweepTec®

Basic set:

- Ultrasonic bath SONOREX DIGITEC DT 510 F, flask holder GL 510 F, 250 ml TICKOPUR TR 3
- Ultrasonic bath SONOREX DIGITEC DT 1028 F, 2 flask holders GL 510 F, 250 ml TICKOPUR TR 3

TICKOPUR TR 3, concentrate for producing the contact liquid.

Spring clamps EK are necessary to fix the laboratory flasks fast and easy to the flask holder GL. Floating or canting of flasks is prevented.



SONOREX DIGITEC DT 1028 F
with 2 flask holders GL 510 F

Flask size Type	10 ml EK 10	25 ml EK 25	50 ml EK 50	100 ml EK 100	250 ml EK 250
Code No.	051	053	055	057	3259
for GL 510 F are suitable	18 ×	18 ×	9 ×	6 ×	5 ×

See also page 9 info to flasks size.

SONOSHAKE® – Ultrasonic bath SONOREX DIGITEC DT 1028 F combined with shaking device SA 1028 – registered pattern DE 20 2009 017 749.1

SONOSHAKE offers a wide range of possible applications for sample preparation in many areas of analysis, for example, in environmental and foodstuffs analytics as well as in the area of medical diagnostics.

The bath has a basic area of 500 mm x 300 mm and a tank depth of only 65 mm, making it ideal for sonication of samples in laboratory flasks.

The samples can be sonicated either for a selected period or in continuous mode. Quick degassing using the DEGAS function is also possible.

With four different shaking frequencies, the shaking device enables gentle to vigorous reciprocating motion up to a maximum of 20 mm.

Both procedures can be carried out simultaneously or separately.

This means that, for example, a sample can be pre-homogenized at a specified shaking frequency, and then final homogenization can be achieved in a very short time using ultrasound.



SONOSHAKE®

Consisting of:

- Ultrasonic bath DT 1028 F
- shaking device SA 1028

Code No. 3257

Shaking device SA 1028

- analogue setting of time (1 – 15 min or continuous) and shaking frequency
- reciprocating motion: settings in 4 steps possible of up to 200 rpm
- constant amplitude of 20 mm independently of loading
- rack easy to remove
- easy mounting of the laboratory clamps EK 10 –250 (ordering separately)
- shaking platform approx. 410 x 280 mm (l x w)
- mounting of 36 × 10-ml-flasks or 36 × 25-ml-flasks or 18 × 50-ml-flasks or 12 × 100-ml-flasks or 10 × 250-ml-Kolben
- required floor space of SONOSHAKE approx. 850 x 360 mm (l x w)

The shaking device SA 1028 can also be added to existing SONOREX DIGITEC DT 1028 F ultrasonic baths.

Code No. 3249



SA 1028