

SONOREX

**High-power ultrasound
for simultaneous cleaning and disinfection
of respirator masks**



**Cleaning and disinfection
in the ultrasonic bath
with STAMMOPUR 24**
intensive and gentle to material
environmentally friendly
time and cost saving

EXAM-expertise
confirm material compatibility
under ultrasonic influence

BANDELIN
60 years of experience in ultrasound

Ultrasonic cleaning

Reliable cleaning of:

- half-, full- and full vision masks
- breathing tubes
- mouthpieces
- pressure valves
- regulators
- circulation breathing systems
- face shields
- goggles



Respirator mask
contaminated



Respirator mask
cleaned in an ultrasonic bath

Used respirators can be contaminated with pathogenic germs or with dangerous substances. In order to restore operability and to avoid sanitary risks, respirators are to be cleaned and disinfected according to valid rules after every use.

SONOREX ultrasonic cleaning units

- timer 1 – 15 min and continuous operation
- heating 30 – 80 °C, thermostatically adjustable
- drip-proof housing made of stainless steel
- PZT transducers with high effect
- filling mark for safe dosage
- outlet: ball valve

SONOREX SUPER ultrasonic units

- oscillating tank made of stainless steel 1.4301 (AISI 314 Ti)
- 230 V~ 50/60 Hz, 115 V on request

Technical data

Internal tank dimensions (l x w x d) mm	Filling capacity litres	Type	Code No.	Exterior dimensions (l x w x h) mm	Outlet ball valve	Ultrasonic peak output* W	HF power W_{eff}	Heating power W	Current consumption A	Weight net kg
SONOREX SUPER										
325 x 300 x 200	16,0	RK 514 BH	263	355 x 325 x 385	G ½	860	215	600	3,6	9,8
SONOREX LONGLIFE										
500 x 300 x 300	36,0	RK 1028 CH	143	540 x 340 x 500	G ½	1200	300	1450	7,7	23,7
600 x 500 x 300	72,0	RK 1050 CH	184	640 x 540 x 530	G ½	2400	600	1950	11,1	37,0
SONOREX TECHNIK										
1000 x 500 x 400	190,0	RM 180 UH	8250	1180 x 600 x 800	G 1	2 x 4000	2 x 1000	7200	14,8**	135,0

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

Goggles

Ultrasonic cleaning of glasses and safety glasses in a few seconds. Easy removal of grease and dirt residues, even from hardly accessible frame joints.



Carburettors and injection nozzles

In a few minutes, ultrasound removes oil, dirt, verdigris and deposits from injection nozzles, carburettors, engine parts, tools, pumps and transmission parts.



Special brochure on request.

Diving gear

The ultrasonic cleaning is particularly suitable for regulators, rubber hoses, valves and connection pieces - no dirt residues on inner parts, angles or corners anymore.



SONOREX LONGLIFE ultrasonic units

- long economic life-time by a welded tank made of 2 mm stainless steel AISI 316 Ti
- 230 V~ 50/60 Hz, 115 V on request

SONOREX TECHNIK ultrasonic units

- long economic life-time by a welded tank made of 2 mm stainless steel AISI 316 Ti
- 400 V~ 3N, 50/60 Hz

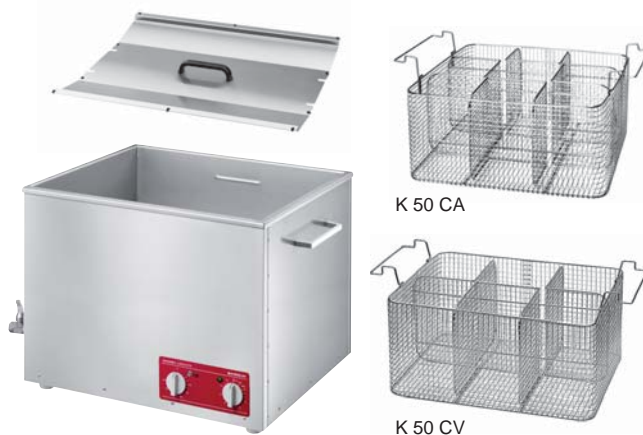
**per phase

Ultrasonic cleaning units and accessories

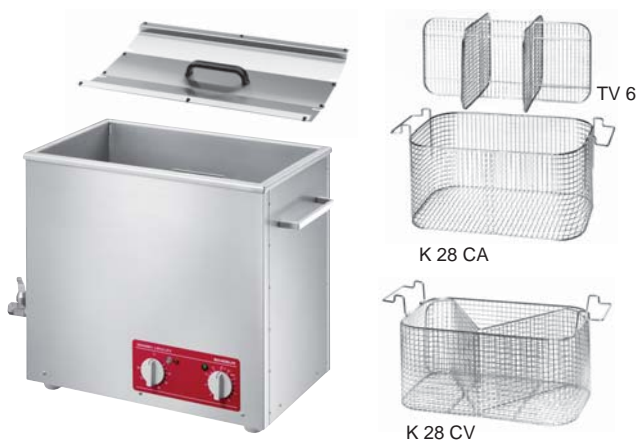
SONOREX SUPER RK 514 BH
for 4 half masks or 2 full masks or
1 full vision mask



SONOREX LONGLIFE RK 1050 CH
for 9 full masks or 6 full vision masks



SONOREX LONGLIFE RK 1028 CH
for 6 full masks or 3 full vision masks



SONOREX TECHNIK RM 180 UH
for 15 full masks



	Type	RK 514 BH	RK 1028 CH	RK 1050 CH	RM 180 UH
Accessories					
Lid , made of stainless steel		D 14 AZ	D 1028 C	D 1050 C	MD 180
Insert basket , made of stainless steel with separating strip for 4 half masks, without separating strip for 2 full masks or 1 full vision mask		K 14 AZ			
Insert basket , made of stainless steel, for 6 full masks or for detached parts (removable separating strip, TV 6)			K 28 CA		
Separating strip for 3 full vision mask for K 28 CA			TV 3		
Insert basket , made of stainless steel, for 3 full vision mask or for detached parts (removable separating strip)			K 28 CV		
Separating strip for 6 full masks for K 28 CV			TV 6		
Insert basket , made of stainless steel, for 9 full masks or for detached parts (removable separating strip, TV 3)				K 50 CA	
Insert basket for 6 full vision mask for K 50 CA				TSA 6	
Insert basket , made of stainless steel, for 6 full vision mask or for detached parts (removable separating strip)				K 50 CV	
Separating strip for 9 full masks for K 50 CA				TSA 9	
Insert basket , made of stainless steel, for 15 full masks					MK 180 A
Transport cart with lockable rolls			TW 40	TW 75	
Base frame with height adjustable feet, without rolls			UG 40	UG 75	

Insert basket with mesh size 12,5 × 12,5 mm

Cleaning and disinfection concentrates

STAMMOPUR 24

Cleaning and disinfection concentrate on the basis of a synergistic combination of propionates and amines in combination with tensides. Even strongly soiled respirators are reliably cleaned and disinfected in one step.

- **economically low dosage 1 %**
25 litres of concentrate deliver 2500 litres ready-to-use solution
- **short disinfection time**
in the ultrasonic bath with simultaneous intensive cleaning
- **extended endurance** of the used solution - three days
- **free from aldehydes, chlorine and phenols**
- **neutral odour**
- **rinsable, fast and free of residues**
- **gentle to material** – no influence on the lifetime of respirator masks - suitable for rubber, metal, also light and non-ferrous metals, glass, plastic and silicone
- **VAH-certified** – bactericidal (incl. Tb.-B.), fungi, limited virucidal (BVDV, Vaccinia, HBV, HCV, HIV)
- **Expertise on effectiveness against bird-flu virus H5N1**
- **biodegradable** – mildly alkaline, pH 9,4 (1 %), UBA 1951 0039



Contents

Active agents in 100 g: 9,9 g Bis(3-aminopropyl)-dodecylamine, 8,4 g Didecylmethylpoly(oxyethyl)-ammoniumpropionate; 5 - 10 % nonionic tensides, 30 - 50 % solvents, complexing agents, pH-regulators, corrosion inhibitors.

Hazard identification: C, corrosive

Expertises:

Bacteria, fungi: Dr. F.-A. Pitten, Gießen 11/05, Prof. Dr. Schubert, Frankfurt 8/99, Prof. Dr. Werner, Schwerin 12/98;
HBV/HIV: Prof. Dr. Frösner, München 8/99;
Time durability: Prof. Dr. Werner, Schwerin 10/99;
Ultrasound time reduction: Dr. Färber, Gießen 8/02;
Vaccinia, BVDV, H5N1: Prof. Dr. L. Döhner, Dr. D. Becher, Greifswald 08/06;
EXAM-expertise: 11/06, Nr. 5734/06

Application with ultrasound

2 % – 5 min

1 % – 15 min

Application without ultrasound

1 % – 60 min

3 % – 15 min

25 litres Code No. 916
5 litres Code No. 978

TICKOPUR R 33

Intensive cleaning after fire fighting operations, especially for the removal of soot, oils and fat as well as for the cleaning of tools and small hardware items.

- **gentle to material**
- **short cleaning times**
- **anticorrosive**
- **biodegradable**
mildly alkaline, pH 9,9 (1 %), UBA 1951 0027

Application with ultrasound

3 %

25 litres Code No. 835
5 litres Code No. 831



Hazard identification: Xi, irritant

EXAM-expertise: 11/06, Nr. 5734/06

EXAM-expertise Nr. 5734/06 on request.



BANDELIN *electronic*

being specialised in manufacturing ultrasonic units.

Certification EN ISO 9001 / 12.2000 und EN ISO 13485:2003 + AC:2007



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€ marked
The general delivery terms apply.

Subject to technical alterations without notice.
Illustrations exemplarily, not to scale.

BANDELIN

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**60 years of experience
in ultrasound**