

ULTRASONIC PIPETTE WASHER **SONOREX PR 140 C**



Easy handling and time-saving, clean and gentle

Automatic ultrasonic cleaning - short cleaning times.
No time intensive washing. Rinsing with syphon principle in the same vessel. No tiresome sorting of the pipettes.
Shorter cleaning times accelerate circulation of pipettes.
Ultrasound is most intensive and removes also tenacious incrustations, even from the tightest lumina, while being very gentle to the material at the same time.
No glassbreaking when used correctly.
The equipment can also be used for plastic pipettes.

Maximum pipette length 755 mm.

Quantity of pipettes to be cleaned - fitting in basket K 140 B:

- dia 9,0 mm - ca. 90 pieces
- dia 10,7 mm - ca. 55 pieces
- dia 14,0 mm - ca. 35 pieces
- dia 20,0 mm - ca. 15 pieces
- dia 29,0 mm - ca. 10 pieces

Environmentally-friendly and safe

To be used with aqueous cleaning fluids. Low consumption of chemicals. Safe application without chromic sulphuric acid.

Practical and space-saving

Simple installation, easy maintenance. Small space required 335 x 255 mm (l x w).

Set PR 140 C

Ultrasonic unit with stainless steel lid, plastic insert basket and cleaning concentrate

Code No. 2083

Technical data:

4 PZT-large area transducers
Ultrasonic peak output 860 W, HF-output 215 W_{eff}
Timer 1-15 min and ∞
Frequency 35 kHz,
Mains supply 230 V~ 50/60 Hz, 115 V~ 50/60 Hz on request
Current consumption 1,0 A
Radiation area dia. 150 mm
Overall height 1130 mm,
Operable depth of cylinder 765 mm
Flow rate during rinsing process 2 l/min at 3-8 bar
Volume up to filling mark 13,9 l

Important:

Soaking of the pipettes in the storing vessel prevents dirt-hardening and facilitates the cleaning process.
The use of several pipette baskets and storing vessels for preparation, soaking and rinsing increases the efficiency of the SONOREX Pipette Cleaning System.

Mark of conformity $\text{C} \in$

Accessories:

Plastic insert basket	K 140 B	inner dim. without handle	120 x 275 mm (dia x h)	Code No. 703
Plastic pipette storing vessel	PG 140 B	inner dim.	165 x 925 mm (dia x h)	Code No. 704
3-way-cock for final rinsing in pure or distilled water	AR 140 C	metal		Code No. 017
	AR 140 CP-1	plastic		Code No. 3069
Stainless steel lid	D 140			Code No. 676

Cleaning and disinfection concentrates for the ultrasonic appliance

	Code No.	
TICKOPUR R 33	830	1 litre
Universal cleaning concentrate	883	2 litres
Mildly alkaline, pH 9,9 (1 %). Application 1-5 %.	831	5 litres

TICKOPUR R 27*	815	1 litre
Special cleaning concentrate	874	2 litres
Acid, pH 1,9 (1 %). Application 5 %.	816	5 litres
Removes mineral sedimentations.		

STAMMOPUR DR 8* - VAH/DGHM**-certified		
limited virucidal (tested according EN 14476:2005)	972	2 litres
Disinfection and intensive cleaning, concentrate	974	5 litres
Application 2 % - 5 minutes. Mildly alkaline, pH 9,4 (1 %). Simultaneous disinfection and cleaning. High blood dissolution. For parts heavily contaminated with dry blood and incrustated secretions. Short sonication time. Very high material compatibility. Neutral odour. With corrosion protection. Free from aldehydes, chlorine, phenols. Active against bacteria (incl. Tb-B., Helicobacter pylori), fungi, viruses (Vaccinia, BVDV, HBV, HCV, HIV and influenza A-virus).		

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

Expertises: Bacteria, fungi according to DGHM: Dr. F.-A. Pitten, Gießen 11/05, Prof. Dr. Schubert, 6/99 Frankfurt; Prof. Dr. Werner, 12/98 Schwerin.

HBV/HIV: Prof. Dr. Frösner, 8/99 München; **Vaccinia, Papova, BVDV, H5N1:** Prof. Dr. L. Döhner, Dr. d. Becher, Greifswald 8/06 and 9/06;

Helicobacter pylori: Prof. Dr. Werner, 8/00 Schwerin. **Potlife determination:** Prof. Dr. Werner, 10/99 Schwerin.

Ultrasound time reduction: Dr. W. U. Färber, 08/02 Gießen.

Hazard identification: C Corrosive

STAMMOPUR DR*		
Disinfection and cleaning, concentrate	980	1 litre
Application 5 % - 15 minutes. Neutral, pH 7,0 (1 %).	944	2 litres
Free from formaldehyde, chlorine, phenols. Broad microbial efficacy.	981	5 litres
Active against bacteria (incl. Tb-B.), fungi, viruses (HBV/HIV, Polio, Adeno, Vaccinia, Papova).		
Tested according to the DGHM**-Guidelines (12.7.91).		
Also for wet deposit and final disinfection.		

Agents in 100 g: 6,0 g Glutaraldehyde, 8,0 g Didecyltrimethylammoniumchloride, <5 % non-ionic tensides, 2-propanole, corrosion inhibitors.

Expertises: Bacteria, fungi according to DGHM (12.7.91): Prof. Dr. Hartmann, 9/93 Berlin; Dr. Bernhard, 1/94 and 6/94 Berlin.

Viruses (HBV/HIV): Dr. Steinmann, 4/98 Bremen.

Viruses (Polio, Adeno, Vaccinia, Papova): Prof. Dr. Hartmann, 9/92 Berlin.

Ultrasound time reduction: Prof. Dr. Hartmann, 2/95 Berlin.

Hazard identification: C Corrosive

* Dangerous goods: special transport regulations.

**VAH Verbund für Angewandte Hygiene (Association for Applied Hygiene) /

DGHM Deutsche Gesellschaft für Hygiene und Mikrobiologie (German society for Hygiene and Microbiology)

Use disinfectants safely. Always read the label and product information before use.

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Subject to technical alterations.

BANDELIN

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**55 years of experience in
ultrasound technology**

Certified according to
EN ISO 9001:2000
EN ISO 13485:2003