

1 Ultrasonic baths SONOREX DIGITEC/SONOREX DIGIPLUS

Sonorex Digitec ultrasonic baths

Bandelin

Modern digital ultrasonic baths. These devices work at 35 kHz and have PZT transducers for maximum cleaning power. SweepTec for permanent sound field oscillation ensures even and gentle cleaning®. Optional with heater 20-80 °C, thermostatically adjustable, with LED-display for target value and actual value of temperature. Optical signal in case of excess temperature. 4 sizes are spray-proof with stainless steel tanks and outer cases. All devices are available with infrared interface.

Sonorex Digitplus ultrasonic bath as Sonorex Digitec but power control from 20 to 100 %.

4-step "plug and clean" operation - heater range 20 to 80 °C, thermostatically adjustable, with LED display for target and actual temperature values - optical signal in case of overtemperature - timer for countdown and continuous operation - Degas: adjustable pulse sound level for removing unwanted air bubbles, with LCD display indicator - spray-proofed, stainless steel housing, protection class: IP33 - SweepTec® for permanent frequency oscillation - 230 V~, 50/60 Hz or 115 V~.

DL-Models additionally with power setting 20 to 100 %.



Type	Capacity	Int. tank dims. (W x D x H)		Ultra-sonic power	HF peak power	Heating power	PK	Cat. No.
		L	mm					
DT 31	0.9	190	85 x 60	160	40		1	9.877 830
DT 31 H	0.9	190	85 x 60	160	40	70	1	9.877 831
DT 52	1.8	150	140 x 100	240	60		1	9.877 832
DT 52 H	1.8	150	140 x 100	240	60	140	1	9.877 833
DT 100	3.0	240	140 x 100	320	80		1	9.877 834
DT 100 H	3.0	240	140 x 100	320	80	140	1	9.877 835
DT 102 H	3.0	240	140 x 100	480	120	140	1	9.877 836
DT 103 H	4.0	240	140 x 150	560	140	200	1	9.877 837
DT 156	6.0	500	140 x 100	640	160		1	9.877 838
DT 255	5.5	300	150 x 150	640	160		1	9.877 839
DT 255 H	5.5	300	150 x 150	640	160	280	1	9.877 840
DT 510	9.7	300	240 x 150	640	160		1	9.877 841
DT 510 H	9.7	300	240 x 150	640	160	400	1	9.877 842
DT 106	5.6	Ø 240, 130 (depth)		480	120		1	9.877 848
DT 156 BH	9.0	500	140 x 150	860	215	600	1	9.877 849
DT 512 H	13.0	300	240 x 200	860	215	400	1	9.877 850
DT 514	13.5	325	300 x 150	860	215		1	9.877 851
DT 514 H	13.5	325	300 x 150	860	215	600	1	9.877 852
DT 514 BH	18.7	325	300 x 200	860	215	600	1	9.877 853
DT 1028	28.0	500	300 x 200	1200	300		1	9.877 854
DT 1028 H	28.0	500	300 x 200	1200	300	1300	1	9.877 855
DT 1028 CH	45.0	500	300 x 300	1200	300	1450	1	9.877 857
DT 1050 CH	90.0	600	500 x 300	2400	600	1950	1	9.877 860
DL 102 H	3.0	240	140 x 100	480	120	140	1	9.877 865
DL 156 BH	9.0	500	140 x 150	860	215	600	1	9.877 866
DL 255 H	5.5	300	150 x 150	640	160	280	1	9.877 867
DL 510 H	9.7	300	240 x 150	640	160	400	1	9.877 868
DL 512 H	13.0	300	240 x 200	860	215	400	1	9.877 869
DL 514 BH	18.7	325	300 x 200	860	215	600	1	9.877 870
DL 1028 H	28.0	500	300 x 200	1200	300	1300	1	9.877 871

Ultrasonic baths Sonorex Digitec DT ... F - Basic equipment

Bandelin

- Flat ultrasonic baths with fast degassing and for sample preparation
- Sample preparation in laboratory flasks
- Fast degassing of samples at the push of the button
- Homogenising
- Same power density in all ultrasonic baths
- Reproducibility of results in the different bath sizes
- Uniform sonication of samples irrespective of size and arrangement of the flasks.

Items supplied:

- DT 510 F - flask holder GL 510 F and 250ml Tickopur TR 3
- DT 1028 F - 2 x flask holder GL 510 F and 250ml Tickopur TR 3.

Spring clamps EK are necessary to fix the laboratory flasks quickly and easily to the flask holder GL.



9.877 862

Type	Capacity	Int. tank dims. (W x D x H)		Ultra-sonic power	HF peak power	PK	Cat. No.
		L	mm				
DT 510 F	4.30	300	240 x 65	560	140	1	9.877 862
DT 1028 F	9.50	500	300 x 65	1280	320	1	9.877 863

1


1 Flask Holder for SONOREX DIGITEC DT...F Ultrasonic Baths

Stainless steel. Flask Clips EK required.

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Type	For bath type	PK	Cat. No.
GL 510 F*	DT 510 F, DT 1028 F	1	9.877 579

* in DT 1028 F fit 2 pieces.

2


2 Suspension baskets for Sonorex ultrasonic baths

Stainless steel.

Bandelin

Optimal ultrasonic wave transmission. Items to be cleaned should not be placed on the bottom of the tank.

Type	For bath type	Width	Length	Height	PK	Cat. No.
		mm	mm	mm		
K 08	RK/DT 31 / H	65	170	50	1	9.877 630
K 1 C	RK/DT 52 / 52 H	110	120	40	1	9.877 631
K 3 C	RK/DT 100 / 100 H / 102 H / 102 H-RC, DL 102 H	110	200	40	1	9.877 633
K 3 CL	RK/DT 103 H	110	200	40	1	9.877 632
K 6*	RK/DT 106	215	215	50	1	9.877 634
K 6 L	RK/DT 156	100	460	50	1	9.877 636
K 6 BL	RK/DT 156 BH, DL 156 BH	100	460	50	1	9.877 637
K 5 C	RK/DT 255 H / 255 H-RC, DL 255 H	110	260	40	1	9.877 635
K 10	RK/DT 510 / 510 H / 510 H-RC, DL 510 H	195	250	50	1	9.877 697
K 10 B	RK/DT 512 H, DL512 H	195	250	50	1	9.877 700
K 14	RK/DT 514 / H	245	275	50	1	9.877 694
K 14 B	RK/DT 514 BH / 514 H-RC, DL 514 BH	245	275	50	1	9.877 701
K 28	RK 1028/H / DT 1028 / H, DL 1028 H	245	455	50	1	9.877 698
K 28 C	RK/DT 1028 CH	245	455	50	1	9.877 702
K 50	RK 1050	450	545	50	1	9.877 699
K 50 C	RK/DT 1050 CH	450	545	50	1	9.877 703

*round, adjustable.

3


3 Handle adjusters, GV 3 and GV 10, for Sonorex insert baskets

The immersion depth of the baskets can be continuously adjusted using the handle adjuster prevents laboratory flasks from floating, tipping over or becoming flooded. Quick and easy attachment to insert baskets or utensil holders (except GH 1).
1 pair.

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Type	For baskets	PK	Cat. No.
GV 3	K 1 C, K 3 C, K 3 CL, K 5 CL, K 6 L, K 6 BL	1	9.877 720
GV 10	K 10, K 10 B, K 14, K 14 B, K 28, K 28 C, GH 10, GH 28	1	9.877 721

4


4 Flask Clips for Sonorex insert baskets

Stainless steel. Suitable for insert baskets and instrument holders with mesh size up to 12.5 mm x 12.5 mm and for glass holder GL for DT...F. Essential for the attachment of laboratory flasks.

Bandelin

Type	PK	Cat. No.
EK 10 for insert baskets up to 31 mm dia.	1	9.877 651
EK 25 for insert baskets up to 42 mm dia.	1	9.877 653
EK 50 for insert baskets up to 52 mm dia.	1	9.877 655
EK 100 for insert baskets up to 65 mm dia.	1	9.877 657
EK 250 for insert baskets up to 85 mm dia.	1	9.877 658

5


5 Lids for Sonorex ultrasonic baths

Stainless steel.

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For covering bath tanks, as outlined below.

Type	For bath type	PK	Cat. No.
D 08	RK/DT 31 / H	1	9.877 597
D 52	RK/DT 52 / 52 H	1	9.877 601
D 100	RK/DT 100 H / 102 H / 102 H-RC / 103 H, DL 102 H	1	9.877 603
D 6	RK/DT 106	1	9.877 606
D 156	RK/DT 156 BH, DL 156 BH	1	9.877 602
D 255	RK/DT 255 H / 255 H-RC, DL 255 H	1	9.877 605
D 510	RK/DT 510 / 510 H / 510 H-RC / 512 H, DL 510 H	1	9.877 610
D 514	RK/DT 514 / 514 H / 514 BH / 514 BH-RC, DL 514 BH	1	9.877 604
D 1028	RK 1028/H / DT 1028 H, DL 1028 H	1	9.877 607
D 1028C	RK/DT 1028 CH	1	9.877 600
D 1050 C	RK 1050 CH / DT 1050 CH	1	9.877 608

1 Positioning lids for Sonorex ultrasonic baths

Stainless steel.
For supporting inset beakers.

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Type	For bath type	PK	Cat. No.
DE 08	RK/DT 31 / H	1	9.877 621
DE 52	RK/DT 52 / 52H / 52H-RC	1	9.877 611
DE 100	RK/DT 100 H / 102 H / 103 H, DL 102 H	1	9.877 613
DE 6	RK/DT 106	1	9.877 616
DE 156	RK/DT 156 BH / 156 BH-RC, DL 156 BH	1	9.877 612
DE 255	RK/DT 255 H / 255 H-RC, DL 255 H	1	9.877 615
DE 510	RK/DT 510 / 510 H / 512 H, DL 510 H	1	9.877 620
DE 514	RK/DT 514 H / 514 BH / 514 BH-RC, DL 514 BH	1	9.877 614
ES 4	RK 1028/H/CH, DT 1028 / H/CH, RK 1050 / DT 1050 CH, DL 1028 H	1	9.877 617

2 Sonorex insert beakers

For positioning lids and beaker holders.
SD 06, PD 06, EB 05: with retaining ring
SD 05, KB 04, SD 04: with retaining ring, only for DE 08
SD 09: with retaining ring

Bandelin



Type	Capacity ml	Diam. mm	Height mm	Material	PK	Cat. No.
SD 04	400	76	110	Glass	1	9.877 624
SD 05	600	76	150	Glass	1	9.877 645
SD 06*	600	84	125	Glass	1	9.877 622
SD 09	1000	91	180	Glass	1	9.877 623
EB 05*	600	87	120	Stainless steel	1	9.877 626
KB 04	400	76	110	Plastic	1	9.877 644
PD 06*	600	86	125	Plastic	1	9.877 628

* with lid.

3 Inset baskets for SONOREX insert beakers

Mesh aperture 1 mm x 1 mm.

Bandelin

Type	For	Int. diam. mm	Material	PK	Cat. No.
PD 04	Inset beakers	60	Plastic	1	9.877 643
KD 0*	Inset beakers	75	Stainless steel	1	9.877 642

*not for SD 04, SD 05 and KB 04



4 Inset basket accessories for Sonorex ultrasonic baths

Perforated bottom plastic.
For cleaning sensitive components.

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Type	For bath type	Internal dimensions (W x D x H) mm	PK	Cat. No.
PK 1 C	RK 52 / H, DT 52 / H	90 x 90 x 66	1	9.877 661
PK 3 C	RK 103 H, DT 103 H	90 x 187 x 56	1	9.877 666
PK 2 C	RK 100 H, RK 102 H / DL 102 H DT 100 / H, DT 102 H / H-RC	115 x 195 x 88	1	9.877 664
K 5 P	RK 255 / H, DT 255 / H, DL 255 H	96 x 254 x 130	1	9.877 667



5 Inset tubs for Sonorex ultrasonic baths

Unperforated plastic, with cover. For cleaning with aggressive liquids.

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Type	For bath type	Internal dimensions (W x D x H) mm	PK	Cat. No.
KW 3	RK/DT 102 H / 102 H-RC / 103 H / 100 / H, DL 102 H	195 x 115 x 88	1	9.877 800
KW 5	RK/DT 255 H/-RC, DL 255 H	254 x 96 x 130	1	9.877 801
KW 14	RK/DT 514/H	280 x 215 x 145	1	9.877 802
KW 14 B	RK/DT 514 BH/-RC, DL 514 BH	275 x 210 x 195	1	9.877 803
KW 28-0	RK 1028/H, DT 1028 H/CH, DL 1028 H	437 x 230 x 155	1	9.877 804
KW 50-0	RK 1050	517 x 445 x 184	1	9.877 806
KW 50 B-0	RK/DT 1050 CH	520 x 445 x 284	1	9.877 717
KW 10-0	RK 510/H, DT 510/H/H-RC, DL 510 H	242 x 182 x 135	1	6.207 107



Ultrasonic cleaners/Instruments

1


1 Ultrasonic baths, Sonorex Technik

Sonorex Technik - welded tanks.

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Capacities up to 230 L and internal tank length up to 1700 mm. Frequency 40 kHz. From RM 110 UH upwards 25 kHz are possible.

Modular range - with 6 standard tank capacities in 4 versions (without heating, without ultrasonic on request). For cleaning and rinsing. With integrated ultrasonic generator. Frequencies: 25 kHz (models up to RM 110) or 40 kHz (rest of range). For 220-240 V, 50/60 Hz (RM 110: 210 UH, 400 V, 3ph. 50/60 Hz, Cekon plug 16 A). With 2mm thick, stainless steel V 4A, 1.457, welded tank. With overflow, drainage outlet and time switch 1 - 15 min. or can be set for continuous operation. With adjustable heating 30 to 80 °C.

Type	Capacity	Int. tank dims. (W x D x H)	Ultra-sonic power	HF peak power	Heating power	PK	Cat. No.
	L	mm	W	W _{eff}	W		
RM 16 UH	13	325 x 275 x 200	1200	1 x 300	800	1	9.877 570
RM 40 UH	30	480 x 300 x 300	2000	1 x 500	1250	1	9.877 571
RM 75 UH	60	580 x 500 x 300	4000	1 x 1000	1950	1	9.877 572
RM 110 UH	110	600 x 450 x 450	4000	1 x 1000	4800	1	9.877 573
RM 180 UH	160	1000 x 500 x 400	2x4000	2 x 1000	7200	1	9.877 575
RM 210 UH	210	750 x 650 x 500	2x4000	2 x 1000	7200	1	9.877 577

2


2 3 Accessories for Sonorex Technik ultrasonic baths

Stainless steel. Insert baskets and lids for Technik models. Lids protect against evaporation and reduce operating noise. Baskets for hanging in bath tanks as outlined below.

Bandelin

Type	For bath type	Description	Internal dimensions (W x D x H) mm	PK	Cat. No.
MK 16B	RM 16 UH	basket	275 x 245 x 50	1	9.877 680
MK 40B	RM 40 UH	basket	430 x 240 x 50	1	9.877 681
MK 75B	RM 75 UH	basket	530 x 445 x 50	1	9.877 682
MK 110	RM 110 UH	basket	530 x 410 x 90	1	9.877 683
MK 180	RM 180 UH	basket	930 x 460 x 90	1	9.877 684
MK 210	RM 210 UH	basket	680 x 610 x 90	1	9.877 685
MD 16	RM 16 UH	Lid		1	9.877 582
MD 40	RM 40 UH	Lid		1	9.877 583
MD 75	RM 75 UH	Lid		1	9.877 584
MD 110	RM 110 UH	Lid		1	9.877 585
MD 180	RM 180 UH	Lid		1	9.877 586
MD 210	RM 210 UH	Lid		1	9.877 587

3

4


4 Ultrasonic sieve-bath Sonorex Super ultrasonic bath RK 106

Ultrasonic bath for cleaning of 1 test sieve with 200 mm diameter

Bandelin

- Tank: stainless steel
- Housing: stainless steel drip-proof
- Outlet: ball valve, right side
- Degree of protection: IP32
- Time switch: 1-15 min and ∞

Type	Description	PK	Cat. No.
RK 106	Ultrasonic bath for 1 test sieve EU-Plug	1	9.877 106
RK 106	Ultrasonic bath for 1 test sieve UK-Plug	1	9.877 105
RK 106	Ultrasonic bath for 1 test sieve CH-Plug	1	9.877 107
D 6	Lid for RK 106	1	9.877 606
SH 7	Sieve holder	1	9.877 784

11. Cleanroom, Cleaning and sterilisation

Ultrasonic cleaners/Instruments

1 Ultrasonic sieve-bath Sonorex Super ultrasonic bath RK 1028 C

For 5 test sieves with 200 mm diameter

Bandelin

- Tank: stainless steel
- Housing: stainless steel drip-proof
- Handles: on sides
- Degree of protection: IP32
- Time switch: 1-15 minutes or continuous operation



Type	Description	PK	Cat. No.
RK 1028 C	Ultrasonic bath for 5 test sieves EU-Plug	1	9.877 528
RK 1028 C	Ultrasonic bath for 5 test sieves UK-Plug	1	9.877 538
RK 1028 C	Ultrasonic bath for 5 test sieves CH-Plug	1	9.877 539
D 1028 C	Lid for RK 1028 C	1	9.877 600
SH 28 C	Sieve holder	1	9.877 746

2 Ultrasonic sieve-baths SONOREX SUPER RK 1028 CH and RK 1050 CH

Bandelin

Specifications

	RK 1028 CH/RK 1050 CH
Inner tank dimensions (W x D x H):	500 x 300 x 300 mm/600 x 500 x 300 mm
Transducers:	8 PZT-/16-PZT-broad beam transducers
Capacity:	45 L/90 L
Filling volume for cleaning:	30 L/60 L
Ultrasonic power:	1200 W/2400 W
HF power:	300 W _{eff} /300 W _{eff}
Heating power:	1450 W/1950 W
Current consumption:	7.7 A/11.1 A
Leakage current:	< 0.5 mA
Protection rating:	IP32
Exterior dimensions (W x D x H): (without handles and drain tap)	540 x 340 x 500 mm/530 x 540 x 640 mm
Weight:	net 23.7 kg/37 kg gross 27.2 kg/67 kg



Type	HF peak power W _{eff}	Ultra-sonic power W	PK	Cat. No.
RK 1028 CH	300	1200	1	9.877 530
RK 1050 CH	600	2400	1	9.877 552

3 Utensil and test sieve holder for Sonorex ultrasonic baths

Bandelin

Instrument and test sieve holder.
 9.877 781: Holder for 1 L glass flasks, 105mm diameter. GH 1
 9.877 784: Sieve holder SH 7 for test sieve 200 mm diameter.
 GH 10/28 instrument holders, stainless steel, mesh size 12.5 mm x 12.5 mm

Type	For bath type	Dimensions (W x D) mm	PK	Cat. No.
GH 1	RK/DT 52, RK/DT 100 / H, RK 103 H, RK/DT 102 H / H-RC, DT 103 H, DL 102 H	129 x 117	1	9.877 781
SH 7	RK/DT 106	-	1	9.877 784
GH 10	RK/DT 510 / 510 H / H-RC, DL 510 H	260 x 200	1	9.877 731
GH 28	RK 1028/H, DT 1028 H/CH, RK 1040	455 x 250	1	9.877 733
SH 28 C	RK 1028 C	-	1	9.877 746



➔ Sieves please see page 574.

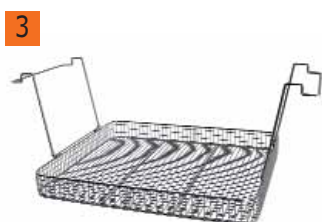
Ultrasonic cleaners/Instruments



9.877 702



9.877 617



9.877 703



4 5 Accessories for Sonorex SUPER RK 1028 CH and RK1050 CH

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Accessories RK1028 CH

K 28 C: Insert basket stainless steel, 455 x 245 x 50 mm.
 K 28 CA/CV: Insert basket stainless steel, int. 470 x 270 x 215 mm.
 KW 28-0: Insert tub plastic, non-perforated, with lid, int. 437 x 230 x 155 mm.
 D 1028 C: lid stainless steel.

Accessories RK1050 CH

K 50 C: Insert basket stainless steel, 545 x 450 x 50 mm, mesh size 5 x 5 mm.
 K 50CA/CV: Insert basket stainless steel, int. 540 x 445 x 240 mm, mesh size 12.5 x 12.5 mm.
 KW 50 B-0: Insert bowl for the use of aggressive liquids, plastic, non-perforated, with lid, int. 520 x 445 x 284 mm.
 D 1050 C: lid stainless steel.

For cleaning small parts

ES 4: Beaker holder stainless steel, for positioning of up to 4 beakers.
 SD 06: glass 600 ml
 EB 05: stainless steel 600 ml
 PD 06: plastic 600 ml
 Insert sieve basket, fits into beakers:
 KD 0: stainless steel, diameter 75 mm
 PD 04: plastic, diameter 60 mm

Type	Description	PK	Cat. No.
RK1028 CH: K 28 C	Insert basket	1	9.877 702 1
RK1028 CH: K 28 CA	Insert basket	1	9.877 712
RK1028 CH: K 28 CV	Insert basket	1	9.877 713
RK1028 CH: KW 28-0	Insert tub	1	9.877 804
RK1028 CH: D 1028 C	Lid	1	9.877 600
RK1028 CH + RK1050 CH: SD 06	Beaker, glass	1	9.877 622
RK1028 CH + RK1050 CH: ES 4	Beaker holder	1	9.877 617 2
RK1028 CH + RK1050 CH: EB 05	Beaker, stainless steel	1	9.877 626
RK1028 CH + RK1050 CH: PD 06	Beaker, plastic	1	9.877 628
RK1028 CH + RK1050 CH: KD 0	Beaker, stainless steel	1	9.877 642
RK1028 CH + RK1050 CH: PD 04	Beaker, plastic	1	9.877 643
RK1050 CH: D 1050 C	Lid	1	9.877 608
RK1050 CH: K 50 C	Insert basket	1	9.877 703 3
RK1050 CH: K 50 CA	Insert basket	1	9.877 715
RK1050 CH: K 50 CV	Insert basket	1	9.877 716
RK1050 CH: KW 50 B-0	Insert tub	1	9.877 717

6 7 High-power ultrasonic bath for sample preparation SONOREX DA 300

Bandelin

- Intensive sonication by high ultrasonic power of 200 watts per liter
- DEGAS function causes fast degassing of samples by the means of high effective pulse sound
- Permanent sound due to SweepTec
- Ultrasonic frequency 35 kHz
- Sonication time between 1 and 30 minutes or continuous operation
- RS232 interface
- Recommendation: TICKOPUR cleaning agent

Specifications

Inner tank dimensions (Ø x D):	90 x 80 mm
Operating volume:	0, 3 L
Ultrasonic frequency:	240 W 60 W 35 kHz
Current consumption:	230 V - 0.3 A < 0.5 mA
Protection rating:	IP32
Exterior dimensions (W x D x H):	175 x 165 x 235 mm
Weight:	netto 2.5 kg brutto 3.1 kg

Type	Description	PK	Cat. No.
DA 300	High-power ultrasonic bath	1	6.272 111
ER 0	Holder for reaction vessels with diameters up to 5 x dia. 12 mm and 4 x dia. 23 mm	1	6.272 112

11. Cleanroom, Cleaning and sterilisation

Ultrasonic cleaners/Instruments

1 Ready-to-operate set BactoSonic® 14.2

Bandelin

Ultrasonic special bath for a gentle removal of biofilms.

Consisting of:

Unit BS 14:

Transport containers:

Container carriers for transport containers:

Utensil holder for transport containers:

Frame for foil test:

Contact liquid:

scientifically proven description of the procedure

IB 5, PP, 0.52 l - 2 pcs

IB 6, PP, 0.6 l - 2 pcs

IB 10, PP, 1.0 l - 1 piece

IB 18, PP, 1.8 l - 1 piece

IB 20, PP, 2.0 l - 1 piece

BT 5, PC, for 2 pcs IB 5

BT 6, PC, for 2 pcs IB 6

BT 10, PC, for 1 piece IB 10

BT 18, PC, for 1 piece IB 18

GH 14, stainless steel, for 3 pcs IB 20

FT 14

TICKOPUR TR 3 - 250 ml (concentrate)

1



Type	PK	Cat. No.
BactoSonic® 14.2	1	9.650 290

Transport containers, PP, for BactoSonic® 14.2

Bandelin

Type	Capacity L	Dimensions mm	PK	Cat. No.
IB 5	0.5	145 x 110 x 67	5	9.650 291 2
IB 6	0.6	dia. 142 x 68	5	9.650 292 3
IB 10	1.0	278 x 115 x 60	5	9.650 293 4
IB 18	1.8	208 x 143 x 94	5	9.650 294 5
IB 20	2.0	135 x 102 x 282	5	9.650 295 6

2



9.650 291

3



9.650 292

4



9.650 293

5



9.650 294

6



9.650 295

7 Ready-to-operate set SONOCOOL® 255

Bandelin

Ready-to-use set consisting of:

- ultrasonic device SC 255

- sample holder PH 255-11 for 11 inset beakers SD 01.2

- lid made of glass D 255 G

- inset beakers SD 01.2, glass - without spout, 20 pieces of 100 ml,

- 250 ml TICKOPUR TR 3

(concentrate for producing the contact liquid)

Specifications

Inner tank dimensions:

280 x 150 x 150 mm (l x w x d)

Tank volume:

5 litres (contact liquid)

Adjustable bath temperature:

15 - 40 °C (at 20 °C room temperature)

Cooling power:

200 W

Ultrasonic power:

180 W, adjustable in 4 steps

Ultrasonic frequency:

35 kHz, SweepTec®

Countdown operation:

up to 100 h

External dimensions:

360 x 605 x 385 mm (l x w x h)

Housing:

aluminium: coated with flush pulls (grips recessed inside the housing)

Outlet:

front left, concealed

Current consumption:

1.6 A

Mains connection:

230 V~ (±10 %) 50/60 Hz

Weight:

27.5 kg

7



Type	PK	Cat. No.
SONOCOOL® 255	1	9.650 300

Accessories for ultrasonic device SONOCOOL® 255

Bandelin

Type	Description	PK	Cat. No.
PH 255-11	Sample holder for 11 beakers SD 01.2	1	9.650 303 1
SD 01.2	Beakers of 100 ml, glass, without spout, inside dia. 44 mm, height 80 mm	10	9.650 304
PH 255-1	Sample holder for 1 Box IB 18	1	9.650 305 2
IB 18	Implant box IB 18 1.80 liter	5	9.650 294
PH 255-2	Sample holder for 2 beakers SD 06	1	9.650 306 3
SD 06	Beakers, glass, 600 ml, Ø 84 mm, 125 mm, with no cover, insert ring	1	9.877 622
DG 255 G	Lid made of glass	1	9.650 307 4
SCH 255	Hose connection for connecting a pump	1	9.650 308



9.650 303



9.650 305



9.650 306



9.650 307



5 Ultrasonic pipette cleaner PR 140 D/PR 140 DH

NEW
 Bandelin

Automatic ultrasonic cleaning and rinsing of pipettes or other glassware. Short cleaning times, no time-consuming washing. The device is suitable for plastic or glass pipettes, burettes and other glassware.

- Gentle cleaning of volume-measuring devices and parts with lengths up to 755 mm
- Heating optional (DH) for dissolving grease residues
- Robust tank of stainless steel (AISI 316T)
- Kipp handles for easy transport
- Placement on the floor nearby the drain
- Cleaning liquid for multiple use, fast emptying by ball valve

Scope of delivery: Ultrasonic pipette cleaner, pipette basket, lid.

Set PR 140 D and Set PR 140 DH additionally with cleaning concentrate TICKOPUR R 33 (5 l) and TICKOPUR TR 3 (1 l)

Specifications

Effective capacity:	18 l
Effective cleaning depth:	850 mm
Ultrasonic output max.:	800 W
HF power:	200 W _{eff}
Heater (PR 140 DH only):	20 to 80 °C
Timer:	1, 2, 3, 4, 5, 10, 15, 30 min, continuous
Dimensions, outer (L x W x H):	330 x 330 x 1003 mm
Dimensions, inner (L x W x H):	150 x 150 x 895 mm
Protection class:	IP33

Type	PK	Cat. No.
PR 140 D	1	6.268 695
Set PR 140 D	1	6.268 696
PR 140 DH	1	6.280 088
Set PR 140 DH	1	6.280 456

We can **supply** this
manufacturer's
whole
product range !

BANDELIN

1 SONOSHAKE Ultrasonic bath with shaking device

Bandelin

Consisting of:

Ultrasonic bath Sonorex Digitec DT 1028 F

- especially for sonification of samples in laboratory flasks and for rapid degassing
- low-profile, ultrasonic bath with stainless steel tank, inner dimensions 500 mm x 300 mm x 65 mm (L x W x D)
- housing made of stainless steel, protected against spray, 535 mm x 325 mm x 205 mm (L x W x H)
- outlet: G½ ball valve
- ultrasonic power 1280 W
- HF power 320 W
- working frequency 35 kHz
- Current consumption 1.4 A

Shaking device SA 1028

- analogue setting of time and shaking frequency
- reciprocating motion: settings in 4 steps possible of up to 200/min
- constant amplitude of 20 mm independent of loading
- rack easy to remove - easy mounting of the laboratory clamps EK 10-250 (separately to order)
- footprint approx. 410 mm x 280 mm (L x W)
- Holds 36 x 10 ml, 36 x 25 ml, 18 x 50 ml, 12 x 100 ml or 10 x 250 ml flasks

- Bench space required for Sonoshake approx. 850 mm x 360 mm (L x W)

The Sonoshake can be used either as an ultrasonic bath for sample preparation, a shaking device SA1028 only or both combined.

Type	PK	Cat. No.
SONOSHAKE	1	9.877 864
SA 1028	1	9.877 650

1



1 TICKOPUR - STAMMOPUR concentrates for ultrasonic baths

Concentrates for Sonorex ultrasonic cleaning baths. Enhances cavitation, cleans intensively, kind to most materials and free from chloride. For use cold or warmed - up.

Bandelin

Tickopur TR 3. Special cleaner, concentrate. Properties: weakly acid pH 3.0 at 1%, dosage 1% to 5%, based on citric acid, without phosphate For: steel, stainless steel, non-ferrous, precious and light metals, glass, ceramics, plastics, rubber. Removes: mineral residues, flash rust, grease, oils, waxes, pigments, drilling, grinding, polishing and lapping residues

Tickopur R 27.*Special cleaner, concentrate. Properties: acid pH 1.9 at 1% solution, dosage 1 to 5%. For: glass, steel, rubber, plastic, precious metals, ceramics. Removes: rust, lime scale, mineral residues, silicate, phosphate, cement, urine scale, etc.

Tickopur R 30. Neutral cleaner, concentrate. Properties: neutral, pH 7% dosage 1% to 5%. For: glass, steel, nonferrous metals, aluminium, rubber, optical components, test sieves. Removes: grease, oils, dust, protein, wax, silicone films, etc.

Tickopur R 33. Universal cleaner, concentrate. Properties: mildly alkaline pH 9.9 at 1%, dosage 1% to 5%. For: glass, metal, ceramics, plastic, rubber Removes: grease, oils, wax, silicone films, protein, ink residue, etc.

Tickopur RW 77. Special cleaner with ammonia, concentrate. Properties: mildly alkaline, pH 9.9 at 1%, dosage 5% to 10%. For: steel, stainless steel, non-ferrous metals, glass, plastics, optical components. Removes: grease, oils, wax, lubricants, silicone films, grinding, polishing and soldering agents, etc., slightly deoxidising.

Tickopur J 80 U. Deoxidisation with tarnish preventer, ready for use. Properties: acidic, pH 2, for use in glass and plastic beakers only. For: non-ferrous metals, alloys, copper, electron microscope screens. Removes: oxide and sulphide layers, flux, deoxidising.

Stammopur R.

STAMMOPUR concentrates have been especially developed for ultrasonic application and are marked CE according to the Medical Devices Directive (MDD). All solutions are environmental friendly, biodegradable and easy to dispose.

Stammopur 24. *Disinfection and cleaning concentrate. For intensive cleaning and disinfection - VAH-certified-bactericidal, tuberculocidal, yeasticidal virucidal against BVDV, Vaccinia, HBV, HCV, HIV. Effectiveness EXAM - expertise against H5N1. Free from aldehydes, chlorine and phenol. Application 1% to 2%, mildly alkaline, pH 9.4 (1%). With corrosion prevention. Highly compatible with most materials.

Type	Capacity Litres	PK	Cat. No.
TICKOPUR TR 3	1	1	6.802 927
TICKOPUR TR 3	2	1	6.301 466
TICKOPUR TR 3	5	1	6.802 537
TICKOPUR TR 13	5	1	9.192 672
TICKOPUR R 27*	1	1	9.192 761
TICKOPUR R 27*	2	1	9.192 762
TICKOPUR R 27*	5	1	9.192 765
TICKOPUR R 30	1	1	9.192 641
TICKOPUR R 30	2	1	9.192 646
TICKOPUR R 30	5	1	9.192 642
TICKOPUR R 33	1	1	9.192 601
TICKOPUR R 33	2	1	9.192 602
TICKOPUR R 33	5	1	9.192 605
TICKOPUR R 33	25	1	9.192 610
TICKOPUR RW 77	1	1	9.192 611
TICKOPUR RW 77	2	1	9.192 612
TICKOPUR RW 77	5	1	9.192 615
TICKOPUR J 80 U	1	1	9.192 751
TICKOPUR J 80 U	2	1	9.192 752
TICKOPUR J 80 U	5	1	9.192 755
STAMMOPUR R	2	1	6.801 786
STAMMOPUR 24*	2	1	9.192 711
STAMMOPUR 24*	5	1	9.192 712
STAMMOPUR 24*	25	1	9.192 714

* Transport regulations for dangerous goods have to be observed.

