

SONOREX SUPER Ultrasonic Baths, BANDELIN



WWFH8002

BANDELIN
Ultraschall seit 1955

SONOREX SUPER ultrasonic baths

- Class I medical device
- For aqueous cleaning agents
- Stainless steel vibration tanks, volumes 0.9 to 90.0 liters
- Drip-proof stainless steel housing
- Time setting 1 – 15 min, $\pm 5\%$, or continuous operation (∞)
- Ultrasonic frequency 35 kHz
- RK 1028 CH and RK 1050 CH welded oscillation tanks made of stainless steel 1.4404
- RK 102 H oscillation tank hard chromium-plated
- RK 102 H and up with ball valve drain
- H types with heating, adjustable temperature range 30 – 80°C. RK 31 H: heating permanently set to 65°C
- Pulse function
- Operating voltage 230 V~ ($\pm 10\%$), optionally 115 V~ ($\pm 10\%$), 50/60 Hz

Type	Bath dimensions L x W x D mm	Bath vol. l	Ultrasonic max. output W	Ultrasonic nominal power W	Order No.
RK 31	190 x 85 x 60	0.9	160	40	96 07 21009
RK 31 H	190 x 85 x 60	0.9	160	40	96 07 20532
RK 52	150 x 140 x 100	1.8	240	60	96 07 20552
RK 52 H	150 x 140 x 100	1.8	240	60	96 07 20553
RK 100	240 x 140 x 100	3.0	320	80	96 07 21006
RK 100 H	240 x 140 x 100	3.0	320	80	96 07 21007
RK 102 H	240 x 140 x 100	3.0	480	120	96 07 23001
RK 103 H	240 x 140 x 150	4.0	560	140	96 07 23003
RK 106	Ø 240 x 130	5.6	480	120	96 07 23004
RK 156	500 x 140 x 100	6.0	640	160	96 07 23027
RK 156 BH	500 x 140 x 150	9.0	860	215	96 07 23018
RK 170 H	1000 x 200 x 200	39.0	1520	380	96 07 23039
RK 255	300 x 150 x 150	5.5	640	160	10 07 33066
① RK 255 H	300 x 150 x 150	5.5	640	160	96 07 23007
RK 510	300 x 240 x 150	9.7	640	160	96 07 23026
RK 510 H	300 x 240 x 150	9.7	640	160	96 07 23008
RK 512 H	300 x 240 x 200	13.0	860	215	96 07 23024
② RK 514	325 x 300 x 150	13.5	860	215	96 07 23009
RK 514 H	325 x 300 x 150	13.5	860	215	96 07 23016
RK 514 BH	325 x 300 x 200	18.7	860	215	96 07 23010
RK 1028	500 x 300 x 200	28.0	1200	300	96 07 23011
RK 1028 H	500 x 300 x 200	28.0	1200	300	96 07 23012
RK 1028 C	500 x 300 x 300	45.0	2000	500	96 07 23041
RK 1040	Ø 500 x 195	39.5	1520	380	96 07 23014
RK 1050	600 x 500 x 200	58.0	2400	600	96 07 23015
③ RK 1028 CH	500 x 300 x 300	45.0	1200	300	96 07 23042
④ RK 1050 CH	600 x 500 x 300	90.0	2400	600	96 07 23043

Ultrasonic max. output corresponds to four times higher value of the ultrasonic nominal power

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⑤ SONOREX DIGITEC digital ultrasonic baths

- Class I medical device
- Mixing of samples
- Homogenisation of samples for analysis
- Rapid degassing of solvents for HPLC
- 4-step operation as „plug and clean“
- „H“ units with heater for 20 to 80 °C, with adjustable temperature range, with LED for temperature and heating phase
- Warning LED for overheating
- Time setting 1, 2, 3, 4, 5, 10, 15, 30 min, $\pm 5\%$ or continuous operation (∞)
- DEGAS rapid degassing function – freely selectable sound pulse – with LED
- Stainless steel housing, spray-water proof, IP 33 protection thanks to permanently connected mains cable and liquid-proof front panel
- Sweep – continuous sound field oscillation for gentle, even cleaning
- RC version with infrared interface
- Automatic short-term ultrasound activation during heating to avoid retardation of boiling; can be switched off
- Automatic safety switch-off 12 hours after last button activation
- Pulse function
- Operating voltage 230 V~ ($\pm 10\%$), optionally 115 V~ ($\pm 10\%$), 50/60 Hz
- Fill level mark for safe dosing
- Outlet valve for easy emptying, one-piece welded outlet elbow

Type	Bath dimensions L x W x D mm	Bath vol. l	Ultrasonic max. output W	Ultrasonic nominal power W	Order No.
DT 31	190x85x60	0.9	160	40	96 07 33200
DT 31 H	190x85x60	0.9	160	40	96 07 33220
DT 52	150x140x100	1.8	240	60	96 07 33205
DT 52 H	150x140x100	1.8	240	60	96 07 33225
DT 100	240x140x100	3.0	320	80	96 07 33210
DT 100 H	240x140x100	3.0	320	80	96 07 33230
DT 102 H	240x140x100	3.0	480	120	96 07 33235
DT 103 H	240x140x150	4.0	560	140	96 07 33201
DT 156	500x140x100	6.0	640	160	96 07 33275
DT 255	300x150x150	5.5	640	160	96 07 33215
DT 255 H	300x150x150	5.5	640	160	96 07 33240
DT 510	300x240x150	9.7	640	160	96 07 33245
DT 510 H	300x240x150	9.7	640	160	96 07 33206
DT 512 H	300x240x200	13.0	860	215	96 07 33226
DT 514	325x300x150	13.5	860	215	96 07 33250
DT 514 H	325x300x150	13.5	860	215	96 07 33211
DT 514 BH	325x300x200	18.7	860	215	96 07 33216

Ultrasonic max. output: corresponds to four times higher value of the ultrasonic nominal power

Accessories as for RK units.

SONOREX DIGITEC DT...-RC Units with Infrared Interface

Type	Bath dimensions L x W x D mm	Bath vol. l	Ultrasonic max. output W	Ultrasonic nominal power W	Order No.
⑥ DT 102 H-RC	240x140x100	3.0	480	120	10 07 33071
DT 255 H-RC	300x150x150	5.5	640	160	10 07 33081
DT 510 H-RC	300x240x150	9.7	640	160	10 07 33091
DT 514 BH-RC	325x300x200	18.7	860	215	10 07 33095

Accessories for Digitec DT...-RC Units

Article	Order No.
WINSONIC® DT remote control	10 07 33090
consisting of: software and infrared adapter IR 1	



SONOREX DIGIPLUS DL High-power ultrasonic baths with power control

- Cleaning of sensitive materials
- Mixing of samples
- Homogenizing of samples for analysis
- Fast degassing of solvents for HPLC
- Power control from 20 to 100%
- Heating 20 to 80 °C, with adjustable temperature range, LED
- Optical signal in case of excess temperature
- Automatic short-time ultrasound during heating up period to avoid delay in boiling – switch-off possible
- Time setting 1, 2, 3, 4, 5, 10, 15, 30 min, $\pm 5\%$ or continuous operation (∞)
- DEGAS – quick degassing
- Sweep – permanent sound field oscillation ensures even and gentle cleaning
- Automatic safety shut-down 12 hours after last keypress
- Marking of filling level for safe dosage
- Drain valve for simple emptying, one-piece welded drain bow
- Protection class IP 33 at highest possible level through liquid-tight mains cable and housing front without openings



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Type	Bath dimensions L x W x D mm	Bath vol. l	Ultrasonic max. output W	Ultrasonic nominal power W	Order No.
DL 102 H	240x140x100	3.0	480	120	10 07 37180
DL 156 BH	500x140x150	9.0	860	215	10 07 37181
DL 255 H	300x150x150	5.5	640	160	10 07 37182
DL 510 H	300x240x150	9.7	640	160	10 07 37183
DL 512 H	300x240x200	13.0	860	215	10 07 37184
DL 514 BH	325x300x200	18.7	860	215	10 07 37185
DL 1028 H	500x300x200	28.0	1200	300	10 07 37186

SONOREX accessories for ultrasonic baths

Vessels or items to be cleaned may not be placed on the bottom of the tank!

Stainless steel baskets - required accessories - for suspension in the tank.

Stainless steel equipment holder, model GH 1 for 1 liter glass columns up to $\varnothing 105$ mm, other equipment holders bottom with mesh size $12,5 \times 12,5$ mm. **DE perforated stainless steel cover** for holding insert beakers (glass, plastic stainless steel).

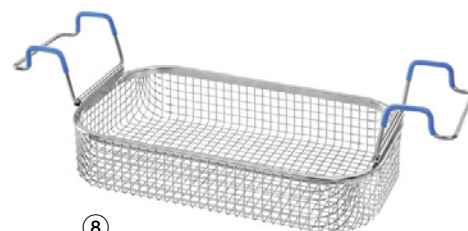
ES insert strips, hold 4 insert beakers, SH 28 C strainer holder for 5 test sieves. SH 7 = sieve holder for 1 test sieve. **Sieve inserts** fit insert containers.

Insert baskets made of stainless steel

Type	fits	Order No.
K 08	RK/DT 31/H	96 07 31116
⑧ K 3C	RK/DT 100/H, RK 102 H, DT 102 H/H-RC, DL 102 H	96 07 33025
K 3CL	RK/DT 103 H	96 07 33026
K 6	RK/DT 106	96 07 31103
K 6BL	RK/DT/DL 156 BH	96 07 31113
K 7	RK 170 H	96 07 31121
K 5C	RK 255/H, DT 255/H/H-RC, DL 255 H	96 07 33027
⑨ K 10	RK 510/H, DT 510/H/H-RC, DL 510 H	96 07 31105
K 10B	RK/DT/DL 512 H	96 07 31106
K 14	RK/DT 514/H	96 07 31107
K 14B	RK/DT/DL 514 BH	96 07 31108
K 28	RK/DT 1028/H, DL 1028 H	96 07 31109
K 28C	RK 1028 C/CH, DT 1028 CH	96 07 31110
K 40	RK 1040	96 07 31119
K 50	RK 1050	96 07 31111
K 50C	RK/DT 1050 CH	96 07 31112

Equipment holder made of stainless steel

Type	fits	Order No.
⑩ GH 1	RK 52/H, DT 52/H RK 100/H, DT 100/H RK 102 H, DT 102 H/H-R RK 103 H, DT 103 H DL 102 H	96 07 32009
SH 7	RK 106, DT 106	96 07 32000
SH 28C	RK 1028 C/CH, DT 1028 CH	96 07 31307
⑪ GH 10	RK 510/H, DT 510/H/H-RC, DL 510 H	96 07 32001
GH 28	RK/DT 1028/H, RK 1040, DL 1028 H	96 07 32005



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Lids made of stainless steel – when using insert baskets

Type	fits	Order No.
D 08	RK 31/H, DT 31/H	96 07 35016
D 52	RK 52/H, DT 52/H	96 07 33002
12 D 100	RK 100/102 H, RK 103 H, DT 100/H, DT 102 H/H-RC, DT 103 H, DL 102 H	96 07 33003
D 6	RK 106, DT 106	96 07 35005
D 156	RK 156/BH, DT 156 BH, DL 156 BH	96 07 33004
D 170	RK 170 H	96 07 33006
D 255	RK 255/H, DT 255/H/H-RC, DL 255 H	96 07 33007
D 510	RK 510/H, RK 512 H, DT 510/H/H-RC, DT 512 H, DL 510 H, DL 512 H	96 07 33008
D 514	RK 514/H/BH, DT 514/H/BH/BH-RC, DL 514 BH	96 07 33010
D 1028	RK 1028/H, DT 1028/H, DL 1028 H	96 07 33011
D 1028C	RK 1028 C/CH, DT 1028 CH mit K 28 C	96 07 33012
D 40	RK 1040	96 07 35020
D 1050 C	RK 1050/CH, DT 1050 CH mit K 50 C	96 07 33013

Positioning lids made of stainless steel for holding insert beakers

Type	fits	Order No.
DE 8	RK 31/H, DT 31/H	96 07 36009
DE 52	RK 52/H, DT 52/H	96 07 33016
13 DE 100	RK 100/H, RK 102 H, RK 103 H, DT 100/H, DT 102 H/H-RC, DT 103 H, DL 102 H	96 07 33017
DE 6	RK 106, DT 106	96 07 36004
DE 156	RK 156/BH, DT 156/BH, DL 156 BH	96 07 33040
DE 255	RK 255/H, DL 255 H, DT 255/H/H-RC	96 07 33028
DE 510	RK 510/H, RK 512 H, DT 510/H/H-RC, DT 512 H, DL 510 H, DL 512 H	96 07 33038
DE 514	RK 514/H/BH, DT 514/H/BH/BH-RC, DL 514 BH	96 07 33039
ES 4	RK 1028/H/C/CH, RK 1050/CH, DT 1028/H/CH, DT 1050 CH, DL 1028 H	96 07 36010

Insert beakers

With holding ring and plastic cover for SD 06, EB 05 und PD 06, for hanging in perforated stainless steel cover or insert strip.

(Type SD 04/SD 05/KB 04 only for RK 31/H and stainless steel perforated lid DE 08).

Type	Version	Ø mm	Height mm	Volume ml	Order No.
SD 06	Glas	84	125	600	96 07 36101
PD 06	Plastic	86	125	600	96 07 36103
EB 05	Stainless steel	88	110	600	96 07 36102
SD 09	Glas	91	180	1000	96 07 36111
SD 05	Glas	76	150	600	96 07 36112
SD 04	Glas	75	110	400	10 07 31113
KB 04	Plastic	76	110	400	10 07 31114

Insert baskets

KD 0 mesh width 1×1 mm, for small parts, for use in insert beakers.

PD 04 floor mesh fabric, mesh width 1×1 mm.

Type	Version	fits	Ø mm	Order No.
14 KD 0	Stainless steel	SD 06/09, EB 05, PD 06	75	96 07 36202
15 PD 04	Plastic	KB 04, SD 04, SD 05, SD 06, SD 09, EB 05, PD 06	60	96 07 36204

16 Mounting clips

Made of stainless steel, for holding laboratory flasks in insert baskets, equipment and glass holders made from stainless steel with mesh size up to 12.5 × 12.5 mm.

Type	Use	Ø mm	Order No.
EK 10	for 10 ml laboratory flasks	31	96 07 37010
EK 25	for 25 ml laboratory flasks	42	96 07 37025
EK 50	for 50 ml laboratory flasks	52	96 07 37050
EK 100	for 100 ml laboratory flasks	65	96 07 37100
EK 250	for 250 ml laboratory flasks	85	10 07 37250

17 Adjustable handle

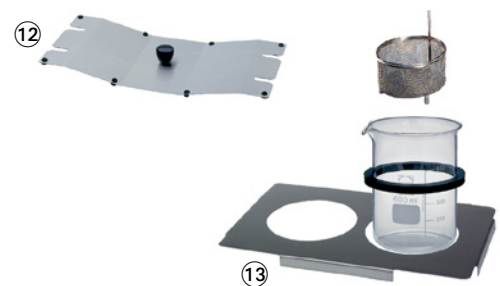
2 pcs., for insert baskets and equipment holder

Type	fits	Order No.
GV 3	K 1 C, K 3 C, K 3 CL, K 5 C, K 6 BL	96 07 32879
GV 10	K 10, K 10 B, K 14, K 14 B, K 28, K 28 C, GH 10, GH 28	96 07 32892

Plastic baskets

Bottom perforated, for cleaning parts with delicate surfaces.

Type	fits	Order No.
18 PK 2 C	RK 100/H, RK 102 H, DT 100/H, DT 102 H/H-RC, DL 102 H	10 07 33082



Plastic basins

with lid – for cleaning in aggressive fluids. KW 3 and KW 5 are temperature resistant to max. 60°C.

Type	fits	Order No.
KW 3	RK 100/H, RK 102 H, RK 103 H, DT 100/H, DT 102 H/H-RC DT 103 H, DL 102 H	96 07 38100
KW 5	RK 255/H, DT 255/H/H-RC, DL 255 H	96 07 38101
KW 10-0	RK 510/H, DT 510/H/H-RC, DL 510 H	96 07 38110
19 KW 14	DT/RK 514/H	96 07 38102
KW 14 B	RK 514 BH, DT 514 BH, DT 514 BH/H-RC, DL 514 BH	96 07 38103
KW 28-0	RK 1028/H/C/CH, DT 1028/H/CH, DL 1028 H, ZE 1031/1032/... DT	96 07 38104
KW 50-0	RK 1050	96 07 38105
KW 50 B-0	DT/RK 1050 CH	10 07 38106

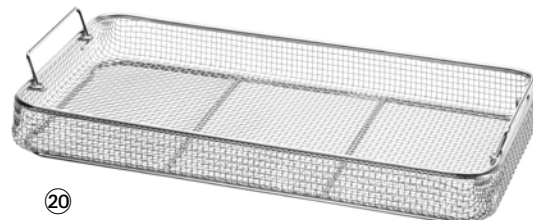


SONOREX special accessories for ultrasonic baths in medical applications

Stainless steel basket holder

KT 30 for insert basket K 29 EM or 1/1 DIN basket.

Type	fits	Order No.
KT 30	RK 1028/H, DT 1028/H, ZE 1031/1032/ ... DT	10 07 38330



Stainless steel insert baskets

4 × 4 mm mesh width, for placement on a holder

Type	fits	Order No.
20 K 29 EM	RK 1028/H DT 1028/H, DT 1058 M, ZE 1031/1032/1058/1059/ ... DT	96 07 38302

Silicone studded mats

For hanging baskets or insert baskets, for non-contact placement of instruments, especially micro instruments. SM 6 and SM 29 two pcs. each.

Type	fits	Order No.	Type	fits	Order No.
SM 3	K 3 C	96 07 38503	SM 14	K 14 EM	96 07 38514
SM 5	K 5 C	96 07 38505	SM 29	K 28/K 29 EM	96 07 38529
SM 6	K 6 L	96 07 38506			

