

**SONOREX TECHNIK**  
**ZM 112 - Module series**

Two-part  
high-power ultrasonic baths for aqueous fluids

- ZM 112 UH: Ultrasonic bath with bottom sonication and heating
- ZM 112 UHL: Ultrasonic bath with bottom and side sonication and heating
- ZM 112 U: Ultrasonic bath with bottom sonication, without heating
- ZM 112 UL: Ultrasonic bath with bottom and side sonication, without heating



ZM 112 UHL

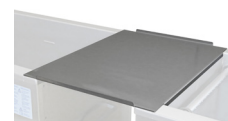
Two-part ultrasonic baths	ZM 112 UH	ZM 112 UHL	ZM 112 U	ZM 112 UL
Consisting of:				
Ultrasonic bath	TM 112 UH	TM 112 UHL	TM 112 U	TM 112 UL
Ultrasonic generator	LG 1001 T	LG 2002 T	LG 1001 T	LG 2002 T
Code No.	9120 - 25 kHz 9122 - 40 kHz	9128 - 25/25 kHz 9130 - 25/40 kHz 9132 - 40/40 kHz 9134 - 40/25 kHz	9124 - 25 kHz 9126 - 40 kHz	9136 - 25/25 kHz 9138 - 25/40 kHz 9140 - 40/40 kHz 9142 - 40/25 kHz

Ultrasonic bath	TM 112 UH	TM 112 UHL	TM 112 U	TM 112 UL
Internal dimensions, l × w × d	600 × 450 × 450/470 mm, *inclined tank bottom			
Filling level mark from the middle of the tank bottom	360 mm			
Upper edge overflow gutter from the middle of the tank bottom	415 mm			
Tank edges	rounded, radius 20			
Capacity	145 l			
Operating volume up to filling level mark	115 l			
Filling volume up to upper edge overflow gutter	130 l			
Tank material	stainless steel AISI 316L, 2 mm, welded			
Outlet / Inlet	3-way ball valve G 1 incl. hose and hose sockets, on the left side; brass, galvanically coated			
Overflow, tightly welded	ball valve G 1 incl. hose socket, on the right side; brass, galvanically coated			
Overflow gutter	on the right side			
Sprinkle tube	on the left side			
Tank bottom	inclined			
Oscillating systems				
at the tank bottom	20 pieces	20 pieces	20 pieces	20 pieces
at the front side of the tank	-	20 pieces	-	20 pieces
Control	turning knob	turning knob	-	-
Temperature control				
Adjustable temperature range	30 – 80 °C	30 – 80 °C	-	-
Heating power	4800 W	4800 W	-	-

	TM 112 UH	TM 112 UHL	TM 112 U	TM 112 UL
<b>Housing</b>				
External dimensions, l × w × h	780 × 610 × 800 mm			
Housing material	stainless steel AISI 304			
Handles	on the sides			
Degree of protection	IP 32			
Feet	4 height adjustable feet			
<b>Power supply</b>				
Mains supply	400 V 3N~ (± 10 %), 50/60 Hz		230 V~ (± 10 %), 50/60 Hz	
Power consumption	4.8 kW		max. 23 W	
Current consumption per phase	max. 10.5 A		max. 0.1 A	
Leakage current	< 3.5 mA			
Mains cable	3 m, fixed at the unit, with three-phase plug CEKON 16 A		3 m, fixed at the unit, with safety plug CEE 7/7 (type E+F)	
<b>Ultrasonic generator</b>				
	LG 1001 T	LG 2002 T	LG 1001 T	LG 2002 T
Code No.	9538	9542	9538	9542
Power modules	1 piece	2 pieces	1 piece	2 pieces
Power adjustment	10 – 100 %			
Ultrasonic peak power corresponds to 4 times ultrasonic nominal power	4000 W	2 × 4000 W	4000 W	2 × 4000 W
Ultrasonic nominal power	1000 W	2 × 1000 W	1000 W	2 × 1000 W
Ultrasonic frequency	25 or 40 kHz	25 and / or 40 kHz	25 or 40 kHz	25 and / or 40 kHz
Pulse function	✓			
<b>Housing</b>				
External dimensions, l × w × h	218 × 405 × 198 mm			
Material	aluminium, powder-coated			
Degree of protection	IP 20			
<b>Power supply</b>				
Mains supply	230 V~ (± 10 %), 50/60 Hz			
Power consumption	2.0 kW	3.0 kW	2.0 kW	3.0 kW
Current consumption per phase	13. A			
Main fuse	16 A			
Leakage current	< 3.5 mA			
Mains cable	2 m, fixed at the unit, with safety plug CEE 7/7 (type E+F)			
<b>Environmental conditions</b>				
	ZM 112 UH	ZM 112 UHL	ZM 112 U	ZM 112 UL
Permissible ambient temperature	5 – 40 °C			
Permissible relative humidity to 31 °C	80 %			
Permissible relative humidity to 40 °C	50 %			
<b>Shipping information</b>				
Weight, net	84 kg	88 kg	79 kg	83 kg
Packing, l × w × h	1 special palett, 1100 × 800 × 1100 mm			

Accessories ultrasonic bath

Type	Code No.	Description
MK 110	8423	insert basket, stainless steel load up to 20 kg internal dimensions 530 x 410 x 90 mm, l x w x d mesh size 12.5 x 12.5 mm
MK 110 S	8476	insert basket, stainless steel load up to 40 kg internal dimensions 530 x 410 x 90 mm, l x w x d mesh size 12.5 x 12.5 mm
MK 110 B	8417	insert basket, stainless steel, applicable for lifting device MB load up to 20 kg internal dimensions 530 x 410 x 90 mm, l x w x d mesh size 12.5 x 12.5 mm
MK 110 BS	8481	insert basket, stainless steel, applicable for lifting device MB load up to 40 kg internal dimensions 530 x 410 x 90 mm, l x w x d mesh size 12.5 x 12.5 mm
MD 110	8446	lid, stainless steel
TB 110	8403	drop plate, stainless steel, between two tanks if using a MB



Accessories ultrasonic generator

FS 15 L	8466	remote control with timer cable with plug, 7 m length time setting 1 – 15 min, ± 10 % continuous operation (∞)
FS 7	8468	remote control cable with 7 m cable length, one-sided with plug



Supplementary equipment

Type	Code No.	Description
RM 112 H	9105	rinsing bath with heating, without ultrasound
RM 112	9106	rinsing bath without heating, without ultrasound
WG 110-2	8520	rack for 2 tanks, in connection with MB 110 B
WG 110-3	8521	rack for 3 tanks, in connection with MB 110 B
WG 110-4	8522	rack for 4 tanks, in connection with MB 110 B
MB 110	8310	lifting device with oscillation, for one unit
MB 110 B	8314	lifting device with oscillation, in connection with WG 110
KV 112	8456	cascade tube between two tanks
HA 112	8497	planing head holder stainless steel



RM 112 H



RM 112



MB 110 B with WG 110-2



KV 112



HA 112

Peripheral units

Type	Code No.	Description	
FA 110	8611	filtration with pre- and fine filter incl. connection kit	
OX 110	8603A	oil separator incl. connection kit	
WA 110	8635A	DI-water-preparation device incl. connection kit	
TO 110	8337	trough dryer internal dimensions 600 x 500 x 350 mm, l x w x d	

**Caution!**

Do not use combustible liquids, acids, chemicals containing chloride ions and household cleaners.

Do not place items on the tank bottom.

Recommendation: Special cleaning agents TICKOPUR

Subject to technical alterations without notice. Dimensions subject to production tolerances.  
Illustrations exemplary, not true to scale. Decoration products are not included in delivery.

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Zertifiziert nach  
ISO 9001  
ISO 13485