

SONOREX TECHNIK

RM 112 Module series

High-power ultrasonic baths for aqueous liquids

RM 112 UH – Ultrasonic bath with heating

RM 112 U – Ultrasonic bath without heating

NEW RM 112 UH-ST – Ultrasonic bath with heating and interface for connecting a SPS or robotic control

RM 112 U-ST – Ultrasonic bath without heating, with interface for connecting a SPS or robotic control



RM 112 UH

Type	RM 112 UH	RM 112 U	RM 112 UH-ST	RM 112 U-ST
Code No.	9102 = 40 kHz 9101 = 25 kHz	9104 = 40 kHz 9103 = 25 kHz	8772 = 40 kHz 8771 = 25 kHz	8774 = 40 kHz 8773 = 25 kHz

Oscillating tank

Internal dimensions, l x w x d [mm]	600 x 450 x 450/470+	600 x 450 x 450/470+	600 x 450 x 450/470+	600 x 450 x 450/470+
Filling level mark from the tank bottom [mm]	360	360	360	360
Upper edge overflow gutter from the tank bottom [mm]	415	415	415	415
Tank edges	rounded	rounded	rounded	rounded
Capacity [l]	145	145	145	145
Operating volume up to filling level mark [l]	115	115	115	115
Filling volume to overflow gutter [l]	130	130	130	130
Tank material and thickness [mm]	stainless steel AISI 316L / 2	stainless steel AISI 316L / 2	stainless steel AISI 316L / 2	stainless steel AISI 316L / 2
Outlet / Inlet	3-way ball valve G 1 incl. hose and hose sockets, brass – galvanically coated, at the left side	3-way ball valve G 1 incl. hose and hose sockets, brass – galvanically coated, at the left side	3-way ball valve G 1 incl. hose and hose sockets, brass – galvanically coated, at the left side	3-way ball valve G 1 incl. hose and hose sockets, brass – galvanically coated, at the left side
Overflow	ball valve G 1 incl. hose socket, brass – galvanically coated, at the right side	ball valve G 1 incl. hose socket, brass – galvanically coated, at the right side	ball valve G 1 incl. hose socket, brass – galvanically coated, at the right side	ball valve G 1 incl. hose socket, brass – galvanically coated, at the right side
Overflow gutter	at the right side	at the right side	at the right side	at the right side
Sprinkle tube	at the left side	at the left side	at the left side	at the left side
Tank bottom	inclined	inclined	inclined	inclined

Ultrasound

Ultrasonic peak power* [W]	4000	4000	4000	4000
Ultrasonic nominal power [W]	1000	1000	1000	1000
Ultrasonic frequency [kHz]	40 or 25	40 or 25	40 or 25	40 or 25
Pulse function	✓	✓	✓	✓

Type	RM 112 UH	RM 112 U	RM 112 UH-ST	RM 112 U-ST
Oscillating systems	20 pieces at tank bottom	20 pieces at tank bottom	20 pieces at tank bottom	20 pieces at tank bottom
Control	turning knob	turning knob	via interface	via interface
Time setting [min]	1 – 15, continuous operation	1 – 15, continuous operation	1 – 15, continuous operation	1 – 15, continuous operation
Temperature control				
Heating, thermostatically adjustable [°C]	30 – 80	-	30 – 80	-
Heating power [W]	4800	-	4800	-
Control	turning knob	-	turning knob	-
Housing				
External dimensions, l x w x h [mm]	780x 610 x 800	780 x 610 x 800	780 x 610 x 800	780 x 610 x 800
Housing material	stainless steel AISI 304	stainless steel AISI 304	stainless steel AISI 304	stainless steel AISI 304
Handles	at the sides	at the sides	at the sides	at the sides
Degree of protection	IP 32	IP 32	IP 32	IP 32
Feet	4 height adjustable feet	4 height adjustable feet	4 height adjustable feet	4 height adjustable feet
Features				
Interface	-	-	potential-free contact, 8-pole M12 socket	potential-free contact, 8-pole M12 socket
Filling level sensor	float switch	float switch	float switch	float switch
Power supply				
Mains supply [V]	400 V~3NPE 50/60 Hz	400 V~3NPE 50/60 Hz	400 V~3NPE 50/60 Hz	400 V~3NPE 50/60 Hz
Max. current consumption per phase [A]	15,3	4,4	15,3	4,4
Leakage current [mA]	< 3,5	< 3,5	< 3,5	< 3,5
Mains cable	3 m, fixed at the unit, with three-phase plug CEKON 16 A	3 m, fixed at the unit, with three-phase plug CEKON 16 A	3 m, fixed at the unit, with three-phase plug CEKON 16 A	3 m, fixed at the unit, with three-phase plug CEKON 16 A
Environmental conditions				
Permissible ambient temperature [°C]	5 – 40	5 – 40	5 – 40	5 – 40
Permissible relative humidity to 31 degreeC [%]	80	80	80	80
Permissible relative humidity to 40 degreeC [%]	50	50	50	50
Shipping information				
Weight net [kg] gross [kg]	74 98	69 93	74 98	69 93
Packing, l x w x h [mm]	1 pallet 1150 x 800 x 1100	1 pallet 1150 x 800 x 1100	1 pallet 1150 x 800 x 1100	1 pallet 1150 x 800 x 1100

SONOREX TECHNIK
RM 112 Module series
Rinsing baths for aqueous liquids
RM 112 H

Rinsing bath with heating, without ultrasound

RM 112

Rinsing bath without heating, without ultrasound

NEW **RM 112 H-ST**
 Rinsing bath with heating and interface for connecting
 a SPS or robotic control, without ultrasound



RM 112 H-ST

Type	RM 112 H	RM 112	RM 112 H-ST
Code No.	9105	9106	8775

Oscillating tank

Internal dimensions, l x w x d [mm]	600 x 450 x 450/470+	600 x 450 x 450/470+	600 x 450 x 450/470+
Filling level mark from the tank bottom [mm]	360	360	360
Upper edge overflow gutter from the tank bottom [mm]	415	415	415
Tank edges	rounded	rounded	rounded
Capacity [l]	145	145	145
Operating volume up to filling level mark [l]	115	115	115
Filling volume to overflow gutter [l]	130	130	130
Tank material /material thickness [mm]	stainless steel AISI 316L / 2	stainless steel AISI 316L / 2	stainless steel AISI 316L / 2
Outlet / Inlet	3-way ball valve G 1 incl. hose and hose sockets, brass – galvanically coated, at the left side	3-way ball valve G 1 incl. hose and hose sockets, brass – galvanically coated, at the left side	3-way ball valve G 1 incl. hose and hose sockets, brass – galvanically coated, at the left side
Overflow	ball valve G 1 incl. hose socket, brass – galvanically coated, at the right side	ball valve G 1 incl. hose socket, brass – galvanically coated, at the right side	ball valve G 1 incl. hose socket, brass – galvanically coated, at the right side
Overflow gutter	at the right side	at the right side	at the right side
Sprinkle tube	at the left side	at the left side	at the left side
Tank bottom	inclined	inclined	inclined

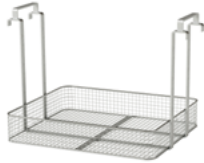
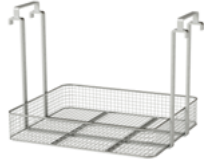




Temperature control

Heating, thermostatically adjustable [°C]	30 – 80	-	30 – 80
Heating power [W]	4800	-	4800
Control	turning knob	-	turning knob

+ inclined tank bottom



Type	RM 112 H	RM 112	RM 112 H-ST
Housing			
External dimensions, l x w x h [mm]	780 x 610 x 800	780 x 610 x 800	780x 610 x 800
Housing material	stainless steel AISI 304	stainless steel AISI 304	stainless steel AISI 304
Handles	at the sides	at the sides	at the sides
Degree of protection	IP 32	IP 32	IP 32
Feet	4 height adjustable feet	4 height adjustable feet	4 height adjustable feet
Features			
Interface	-	-	potential-free contact, 8-pole M12 socket
Filling level sensor	float switch	-	float switch
Power supply			
Mains supply [V]	400 V~3NPE 50/60 Hz	-	400 V~3NPE 50/60 Hz
Max. current consumption per phase [A]	10,5	-	10,5
Leakage current [mA]	< 3,5	-	< 3,5
Mains cable	3 m, fixed at the unit, with three-phase plug CEKON 16 A	-	3 m, fixed at the unit, with three-phase plug CEKON 16 A
Environmental conditions			
Permissible ambient temperature [°C]	5 – 40	5 – 40	5 – 40
Permissible relative humidity to 31 degreeC [%]	80	80	80
Permissible relative humidity to 40 degreeC [%]	50	50	50
Shipping information			
Weight net [kg] gross [kg]	62 86	57 81	62 86
Packing, l x w x h [mm]	1 palet 1150 x 800 x 1100	1 pallet 1150 x 800 x 1100	1 pallet 1150 x 800 x 1100

Accessories




Type	Code No.	Description	Illustration
MK 110	8423	insert basket, stainless steel load up to 20 kg internal dimensions 530 × 410 × 90 mm (l × w × d) mesh size 12.5 × 12.5 mm	
MK 110 S	8476	insert basket, stainless steel load up to 40 kg internal dimensions 530 × 410 × 90 mm (l × w × d) mesh size 12.5 × 12.5 mm	
MK 110 B	8417	insert basket, stainless steel for lifting device MB load up to 20 kg internal dimensions 530 × 410 × 90 mm (l × w × d) mesh size 12.5 × 12.5 mm	
MK 110 BS	8481	insert basket, stainless steel, for lifting device MB load up to 40 kg internal dimensions 530 × 410 × 90 mm (l × w × d) mesh size 12.5 × 12.5 mm	
MD 110	8446	lid, stainless steel	
TB 110	8403	drip plate made of stainless steel, between two tanks	

Supplementary equipment

Type	Code No.	Description	Illustration
MB 110.3	8393	lifting device with oscillation, for one unit data sheet > https://bandelin.com/datenblaetter/MB/MB_110_212_GB_BANDELIN.pdf	
MB 110.3 B	8396	lifting device with oscillation in connection with tank rack WG 110 data sheet > https://bandelin.com/datenblaetter/MB/MB_B_110_210_GB_BANDELIN.pdf	
WG 110-2	8520	tank rack for 2 tanks in connection with MB 110.3 B data sheet > https://bandelin.com/datenblaetter/MB/MB_B_110_210_GB_BANDELIN.pdf	
WG 110-3	8521	tank rack for 3 tanks in connection with MB 110.3 B data sheet > https://bandelin.com/datenblaetter/MB/MB_B_110_210_GB_BANDELIN.pdf	
WG 110-4	8522	tank rack for 4 tanks in connection with MB 110.3 B data sheet > https://bandelin.com/datenblaetter/MB/MB_B_110_210_GB_BANDELIN.pdf	

Type	Code No.	Description	Illustration
KV 112	8456	cascade tube between 2 tanks	
HA 112	8497	planing head holder data sheet > https://bandelin.com/datenblaetter/HA/HA_GB_BANDELIN.pdf	

Peripheral units

Type	Code No.	Description	Illustration
FA 110	8611	filtration data sheet > https://bandelin.com/datenblaetter/FA/FA_GB_BANDELIN.pdf	
OX 110	8603A	oil separator data sheet > https://bandelin.com/datenblaetter/OX/OX_GB_BANDELIN.pdf	
TO 110	8337	trough dryer data sheet > https://bandelin.com/datenblaetter/TO/TO_GB_BANDELIN.pdf	

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.