

SONOREX TECHNIK
RM 40.2 Module series
High-power ultrasonic baths for aqueous liquids

RM 40.2 UH – Ultrasonic bath with heating

RM 40.2 U – Ultrasonic bath without heating

RM 40.2 UH-ST – Ultrasonic bath with heating and interface for connecting a SPS or robotic control
RM 40.2 U-ST – Ultrasonic bath without heating, with interface for connecting a SPS or robotic control



RM 40.2 UH

Type	RM 40.2 UH	RM 40.2 U	RM 40.2 UH-ST	RM 40.2 U-ST
Code No.	8214	8215	8683	8684

Oscillating tank

Internal dimensions, l x w x d [mm]	475 x 300 x 300/315+	475 x 300 x 300/315+	475 x 300 x 300/315+	475 x 300 x 300/315+
Filling level mark from the tank bottom [mm]	200	200	200	200
Upper edge overflow gutter from the tank bottom [mm]	235	235	235	235
Tank edges	rectangular form	rectangular form	rectangular form	rectangular form
Capacity [l]	46,0	46,0	46,0	46,0
Operating volume up to filling level mark [l]	31,0	31,0	31,0	31,0
Filling volume to overflow gutter [l]	36	36	36	36
Tank material and thickness [mm]	stainless steel AISI 316L / 2,0	stainless steel AISI 316L / 2,0	stainless steel AISI 316L / 2,0	stainless steel AISI 316L / 2,0
Outlet / Inlet	3-way ball valve G ½ incl. hose and hose sockets, brass – galvanically coated, at the left side	3-way ball valve G ½ incl. hose and hose sockets, brass – galvanically coated, at the left side	3-way ball valve G ½ incl. hose and hose sockets, brass – galvanically coated, at the left side	3-way ball valve G ½ incl. hose and hose sockets, brass – galvanically coated, at the left side
Overflow	tightly welded with closing cap G 1, at the right side	tightly welded with closing cap G 1, at the right side	tightly welded with closing cap G 1, at the right side	tightly welded with closing cap G 1, at the right side
Overflow gutter	at the right side	at the right side	at the right side	at the right side
Tank bottom	inclined	inclined	inclined	inclined

Ultrasound

Ultrasonic peak power* [W]	2000	2000	2000	2000
Ultrasonic nominal power [W]	500	500	500	500
Ultrasonic frequency [kHz]	40	40	40	40
Pulse function	✓	✓	✓	✓
Sweep	✓	✓	✓	✓

+ inclined tank bottom * corresponds to 4 times ultrasonic nominal power

Type	RM 40.2 UH	RM 40.2 U	RM 40.2 UH-ST	RM 40.2 U-ST
Oscillating systems	10 pieces at tank bottom	10 pieces at tank bottom	10 pieces at tank bottom	10 pieces at tank bottom
Time setting [min]	1 – 15, continuous operation	1 – 15, continuous operation	-	-
Control	turning knob	turning knob	via interface	via interface
Temperature control				
Heating, thermostatically adjustable [°C]	30 – 80	-	30-80	-
Heating power [W]	1250	-	1250	-
Control	turning knob	-	turning knob	-
Housing				
External dimensions, l x w x h [mm]	540x 340 x 495	540 x 340 x 495	540 x 340 x 495	540 x 340 x 495
Housing material	stainless steel AISI 304	stainless steel AISI 304	stainless steel AISI 304	stainless steel AISI 304
Handles	on sides	on sides	on sides	on sides
Degree of protection	IP 32	IP 32	IP 32	IP 32
Feet	4 rubber feet	4 rubber feet	4 rubber feet	4 rubber feet
Features				
Interface	-	-	potential-free contact, 8-pole M12 socket, cable 5 m	potential-free contact, 8-pole M12 socket, cable 5 m
Filling level sensor	-	-	conductivity sensor (not for demineralised water, conductivity of the liquid > 20 µS/cm)	conductivity sensor (not for demineralised water, conductivity of the liquid > 20 µS/cm)
Power supply				
Mains supply [V]	230 V~ (± 10 %), 50/60 Hz	230 V~ (± 10 %), 50/60 Hz	230 V~ (± 10 %), 50/60 Hz	230 V~ (± 10 %), 50/60 Hz
Current consumption [A]	7,7	2,2	7,7	2,2
Leakage current [mA]	< 3,5	< 3,5	< 3,5	< 3,5
Mains cable	2 m, fixed at the unit, with EU plug CEE 7/7 (type E+F)	2 m, fixed at the unit, with EU plug CEE 7/7 (type E+F)	2 m, fixed at the unit, with EU plug CEE 7/7 (type E+F)	2 m, fixed at the unit, with EU plug CEE 7/7 (type E+F)
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]	27,0 30,0	26,0 30,0	27,0 30,0	26,0 29,0
Packing, l x w x h [mm]	1 carton 670 x 470 x 565	1 carton 670 x 470 x 565	1 carton 670 x 470 x 565	1 carton 670 x 470 x 565

SONOREX TECHNIK
RM 40.2 Module series
Rinsing baths for aqueous liquids

RM 40.2 H– Rinsing bath with heating, without ultrasound

RM 40.2 – Rinsing bath without heating, without ultrasound

NEW

RM 40.2 H-ST
 Rinsing bath with heating and interface for connecting
 a SPS or robotic control, without ultrasound


RM 40.2 H-ST

Type	RM 40.2 H	RM 40.2	RM 40.2 H-ST
Code No.	8216	8217	8685
Oscillating tank			
Internal dimensions, l × w × d [mm]	475 x 300 x 300/315+	475 x 300 x 300/315+	475 x 300 x 300/315+
Filling level mark from the tank bottom [mm]	200	200	200
Upper edge overflow gutter from the tank bottom [mm]	235	235	235
Tank edges	rectangular form	rectangular form	rectangular form
Capacity [l]	46,0	46,0	46,0
Operating volume up to filling level mark [l]	31,0	31,0	31,0
Filling volume to overflow gutter [l]	36	36	36
Tank material /material thick- ness [mm]	stainless steel AISI 316L / 2,0	stainless steel AISI 316L / 2,0	stainless steel AISI 316L / 2,0
Outlet / Inlet	3-way ball valve G ½ incl. hose and hose sockets, brass – galvanically coated, at the left side	3-way ball valve G ½ incl. hose and hose sockets, brass – galvanically coated, at the left side	3-way ball valve G ½ incl. hose and hose sockets, brass – galvanically coated, at the left side
Overflow	tightly welded with closing cap G 1, at the right side	tightly welded with closing cap G 1, at the right side	tightly welded with closing cap G 1, at the right side
Overflow gutter	at the right side	at the right side	at the right side
Tank bottom	inclined	inclined	inclined
Temperature control			
Heating, thermostatically adjustable [°C]	30 – 80	-	30-80
Heating power [W]	1250	-	1250
Control	turning knob	-	turning knob





+ inclined tank bottom





Type	RM 40.2 H	RM 40.2	RM 40.2 H-ST
Housing			
External dimensions, l × w × h [mm]	540 x 340 x 495	540 x 340 x 495	540x 340 x 495
Housing material	stainless steel AISI 304	stainless steel AISI 304	stainless steel AISI 304
Handles	on sides	on sides	on sides
Degree of protection	IP 32	IP 32	IP 32
Feet	4 rubber feet	4 rubber feet	4 rubber feet
Features			
Interface	-	-	potential-free contact, 8-pole M12 socket, cable 5 m
Filling level sensor	-	-	conductivity sensor (not for demineralised water, conductivity of the liquid > 20 µS/cm)
Power supply			
Mains supply [V]	230 V~ (± 10 %), 50/60 Hz		230 V~ (± 10 %), 50/60 Hz
Current consumption [A]	5,5		5,5
Leakage current [mA]	< 3,5		< 3,5
Mains cable	2 m, fixed at the unit, with EU plug CEE 7/7 (type E+F)		2 m, fixed at the unit, with EU plug CEE 7/7 (type E+F)
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]	24,0 27,0	23,0 26,0	24,0 27,0
Packing, l × w × h [mm]	1 carton 670 × 470 × 565	1 carton 670 × 470 × 565	1 carton 670 × 470 × 565

Accessories

Type	Code No.	Description	Illustration
MK 40 B	8409	Insert basket, stainless steel also for oscillation MO load up to 10 kg internal dimensions 430 × 240 × 50 mm (l × w × d) mesh size 5 × 5 mm	
MK 40 MB	8413	Insert basket, stainless steel for lifting device MB load up to 10 kg internal dimensions 430 × 240 × 50 mm (l × w × d) mesh size 5 × 5 mm	
MK 40 S	8410	Insert basket, stainless steel load up to 40 kg internal dimensions 430 × 240 × 50 mm (l × w × d) mesh size 5 × 5 mm	
MK 40 BS	8411	Insert basket, stainless steel for lifting device MB load up to 40 kg internal dimensions 430 × 240 × 50 mm (l × w × d) mesh size 5 × 5 mm	
MD 40	8442	Lid, stainless steel	
TB 40	8401	Drip plate made of stainless steel, between two tanks	

Supplementary equipment

Type	Code No.	Description	Illustration
UG 40	8325	Base frame data sheet > https://bandelin.com/datenblaetter/TW/TW_UG_40_75_DE_GB_BANDELIN.pdf	
TW 40	8330	Transport cart data sheet > https://bandelin.com/datenblaetter/TW/TW_UG_40_75_DE_GB_BANDELIN.pdf	
MO 40	8303	Oscillation device data sheet > https://bandelin.com/datenblaetter/MO/MO16_40_GB_BANDELIN.pdf	
MB 40.3	8391	Lifting device with oscillation data sheet > https://bandelin.com/datenblaetter/MB/MB_16_75_GB_BANDELIN.pdf	

Type	Code No.	Description	Illustration
WG 40-2	8508	Tank rack for 2 tanks in connection with MB 40.3 data sheet > https://bandelin.com/datenblaetter/MB/MB_16_75_GB_BANDELIN.pdf	
WG 40-3	8501	Tank rack for 3 tanks in connection with MB 40.3 data sheet > https://bandelin.com/datenblaetter/MB/MB_16_75_GB_BANDELIN.pdf	
WG 40-4	8509	Tank rack for 4 tanks in connection with MB 40.3 data sheet > https://bandelin.com/datenblaetter/MB/MB_16_75_GB_BANDELIN.pdf	
KV 40	8451	Cascade tube between 2 tanks	
HA 40	8494	Planing head holder data sheet > https://bandelin.com/datenblaetter/HA/HA_GB_BANDELIN.pdf	

Peripheral units

Type	Code No.	Description	Illustration
FA 40	8609	Filtration data sheet > https://bandelin.com/datenblaetter/FA/FA_GB_BANDELIN.pdf	
OX 40	8601A	Oil separator data sheet > https://bandelin.com/datenblaetter/OX/OX_GB_BANDELIN.pdf	
UT 40	8381	Recirculating air dryer data sheet > https://bandelin.com/datenblaetter/UT/UT_16_75_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.