

**SONOREX TECHNIK**
**RM 182 Module series**
**High-power ultrasonic baths for aqueous liquids**

RM 182 UH – Ultrasonic bath with heating

RM 182 U – Ultrasonic bath without heating

**RM 182 UH-ST** – Ultrasonic bath with heating and interface for connecting a SPS or robotic control  
**RM 182 U-ST** – Ultrasonic bath without heating, with interface for connecting a SPS or robotic control



RM 182 UH

Type	RM 182 UH	RM 182 U	RM 182 UH-ST	RM 182 U-ST
Code No.	9202 = 40 kHz 9201 = 25 kHz	9204 = 40 kHz 9203 = 25 kHz	8777 = 40 kHz 8776 = 25 kHz	8779 = 40 kHz 8778 = 25 kHz

**Oscillating tank**

Internal dimensions, l x w x d [mm]	1000 x 500 x 400/420+	1000 x 500 x 400/420+	1000 x 500 x 400/420+	1000 x 500 x 400/420+
Filling level mark from the tank bottom [mm]	310	310	310	310
Upper edge overflow gutter from the tank bottom [mm]	360	360	360	360
Tank edges	rounded	rounded	rounded	rounded
Capacity [l]	226	226	226	226
Operating volume up to filling level mark [l]	170	170	170	170
Filling volume to overflow gutter [l]	200	200	200	200
Tank material /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]	2 x 4000	2 x 4000	2 x 4000	2 x 4000
Ultrasonic nominal power [W]	2 x 1000	2 x 1000	2 x 1000	2 x 1000
Ultrasonic frequency [kHz]	40 or 25	40 or 25	40 or 25	40 or 25
Pulse function	✓	✓	✓	✓

Type	RM 182 UH	RM 182 U	RM 182 UH-ST	RM 182 U-ST
Oscillating systems	40 pieces at tank bottom	40 pieces at tank bottom	40 pieces at tank bottom	40 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
<b>Temperature control</b>				
Heating, thermostatically adjustable [°C]	30 – 80	-	30 – 80	-
Heating power [W]	7200	-	7200	-
Control	turning knob	-	turning knob	-
<b>Housing</b>				
External dimensions, l × w × h [mm]	1180x 660 x 800	1180 x 660 x 800	1180 x 660 x 800	1180 x 660 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
<b>Features</b>				
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
<b>Power supply</b>				
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]	14,8	4,4	14,8	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
<b>Environmental conditions</b>				
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
<b>Shipping information</b>				
Weight net [kg] gross [kg]	138 151	130 143	138 151	130 143
Packing, l × w × h [mm]	1 pallet 1400× 800× 1100	1 pallet 1400× 800× 1100	1 pallet 1400× 800× 1100	1 pallet 1400× 800× 1100

**SONOREX TECHNIK**

**RM 182 Module series**

**Rinsing baths for aqueous liquids**

**RM 182 H**  
Rinsing bath with heating, without ultrasound

**RM 182**  
Rinsing bath without heating, without ultrasound

**RM 182 H-ST**  
Rinsing bath with heating and interface for connecting  
a SPS or robotic control, without ultrasound

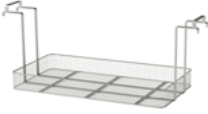

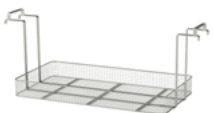
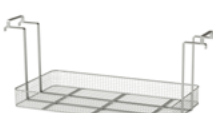





RM 182 H-ST



Type	RM 182 H	RM 182	RM 182 H-ST
Code No.	9205	9206	8780
Oscillating tank			
Internal dimensions, l × w × d [mm]	1000 x 500 x 400/420+	1000 x 500 x 400/420+	1000 x 500 x 400/420+
Filling level mark from the tank bottom [mm]	310	310	310
Upper edge overflow gutter from the tank bottom [mm]	360	360	360
Tank edges	rounded	rounded	rounded
Capacity [l]	226	226	226
Operating volume up to filling level mark [l]	170	170	170
Filling volume to overflow gutter [l]	200	200	200
Tank 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]	7200	-	7200
Control	turning knob	-	turning knob



Type	RM 182 H	RM 182	RM 182 H-ST
<b>Housing</b>			
External dimensions, l x w x h [mm]	1180 x 660 x 800	1180x 660 x 800	1180 x 660 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
<b>Features</b>			
Interface	-	-	potential-free contact, 8-pole M12 socket
Filling level sensor	float switch	-	float switch
<b>Power supply</b>			
Mains supply [V]	400 V~3NPE 50/60 Hz	-	400 V~3NPE 50/60 Hz
Max. current consumption per phase [A]	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
<b>Environmental conditions</b>			
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
<b>Shipping information</b>			
Weight net [kg] gross [kg]	118 130	110 122	118 130
Packing, l x w x h [mm]	1 pallet 1400 x 800 x 1100	1 pallet 1400 x 800 x 1100	1 pallet 1400 x 800 x 1100

### Accessories

Type	Code No.	Description	Illustration
MK 180	8424	insert basket, stainless steel load up to 20 kg internal dimensions 930 × 460 × 90 mm (l × w × d) mesh size 12.5 × 12.5 mm	
MK 180 S	8477	insert basket, stainless steel load up to 40 kg internal dimensions 930 × 460 × 90 mm (l × w × d) mesh size 12.5 × 12.5 mm	
MK 180 B	8418	insert basket, stainless steel, applicable for lifting device MB load up to 20 kg internal dimensions 930 × 460 × 90 mm (l × w × d) mesh size 12.5 × 12.5 mm	
MK 180 BS	8482	insert basket, stainless steel, applicable for lifting device MB load up to 40 kg internal dimensions 930 × 460 × 90 mm (l × w × d) mesh size 12.5 × 12.5 mm	
MK 180 A	8427	insert basket, stainless steel, for 15 respirator masks load up to 20 kg internal dimensions 930 × 460 × 215 mm (l × w × d) mesh size 12.5 × 12.5 mm	
MD 180	8447	lid, stainless steel	
TB 180	8404	drip plate made of stainless steel, between two tanks if using a MB	

### Supplementary equipment

Type	Code No.	Description	Illustration
MB 180.3	8394	lifting device with oscillation for one unit data sheet > <a href="https://bandelin.com/datenblaetter/MB/MB_180.3_EN_BANDELIN.pdf">https://bandelin.com/datenblaetter/MB/MB_180.3_EN_BANDELIN.pdf</a>	
MB 180.3 B	8397	lifting device with oscillation in connection with WG 180 data sheet > <a href="https://bandelin.com/datenblaetter/MB/MB_180.3_B_EN_BANDELIN.pdf">https://bandelin.com/datenblaetter/MB/MB_180.3_B_EN_BANDELIN.pdf</a>	

Type	Code No.	Description	Illustration
WG 180-2	8523	tank rack for 2 tanks in connection with MB 180.3 B data sheet > <a href="https://bandelin.com/datenblaetter/MB/MB_180.3_B_EN_BANDELIN.pdf">https://bandelin.com/datenblaetter/MB/MB_180.3_B_EN_BANDELIN.pdf</a>	
WG 180-3	8524	tank rack for 3 tanks in connection with MB 180.3 B data sheet > <a href="https://bandelin.com/datenblaetter/MB/MB_180.3_B_EN_BANDELIN.pdf">https://bandelin.com/datenblaetter/MB/MB_180.3_B_EN_BANDELIN.pdf</a>	
WG 180-4	8525	tank rack for 4 tanks in connection with MB 180.3 B data sheet > <a href="https://bandelin.com/datenblaetter/MB/MB_180.3_B_EN_BANDELIN.pdf">https://bandelin.com/datenblaetter/MB/MB_180.3_B_EN_BANDELIN.pdf</a>	
KV 182	8457	cascade tube between 2 tanks	

#### Peripheral units

Type	Code No.	Description	Illustration
FA 180	8612	filtration data sheet > <a href="https://bandelin.com/datenblaetter/FA/FA_GB_BANDELIN.pdf">https://bandelin.com/datenblaetter/FA/FA_GB_BANDELIN.pdf</a>	
OX 180	8604A	oil separator data sheet > <a href="https://bandelin.com/datenblaetter/OX/OX_GB_BANDELIN.pdf">https://bandelin.com/datenblaetter/OX/OX_GB_BANDELIN.pdf</a>	
TO 180	8338	trough dryer data sheet > <a href="https://bandelin.com/datenblaetter/TO/TO_GB_BANDELIN.pdf">https://bandelin.com/datenblaetter/TO/TO_GB_BANDELIN.pdf</a>	

**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.