BANDELIN
Ultraschall seit 1955

SONOREX TECHNIK

High-power ultrasonic baths for cleaning of filters in craft and industry

RM 75 UH
with TW 75

A filter is designed to retain particulate matter from a gas or liquid stream. During filtration, the dirt particles deposit on the filter structure. It is therefore necessary to periodically regenerate or replace the filters.
Often in conventionnel cleaning the filter fins and wires are damaged by high-pressure cleaning or spraying or not adequately cleaned. During ultrasonic cleaning, high-frequency vibrations are generated in the cleaning fluid, which form microscopic bubbles that, like an electronic brush, remove all contamination from the filter blades and ionizing wires.

Using the aqueous, mildly alkaline and biodegradable cleaning agent TICKOPUR R 33, the cleaning is intensive, gentle, hygienic and environmentally friendly.

Advantages

- Longer life due to gentle cleaning of sensitive parts, e.g. ionisers
- Time gain – due to short cleaning times fast availability is ensured
- Higher filter life span trough intensive cleaning

RM 110 UH RM 112 UH RM 180 UH RM 182 UH RM 210 UH RM 212 UH

Ultrasonic baths

Type	Internal tank dimensions l × w × d [mm]	Capacity [l]	Code no.	External dimensions l × w × h [mm]	Ultrasonic peak output** [W]	Ultrasonic nominal otput [W]	Ultrasonic frequency [kHz]	Heating power [W]	Current consumption [A]***
for filters up to 520 × 440 × 200 mm									
RM 75 UH	580 × 500 × 300	60.0	8220	640 × 540 × 530	4000	1000	40	1950	12.9
for filters up to 520 × 400 × 380 mm									
RM 110 UH	600 × 450 × 450	110.0	8230	780 × 550 × 800	4000	1000	40	4800	10.5
RM 112 UH	600 × 450 × 450/470*	115.0	9102	780 × 610 × 800	4000	1000	40	4800	10.5
for filters up to 920 × 450 × 330 mm									
RM 180 UH	1000 × 500 × 400	160.0	8250	1180 × 600 × 800	2 × 4000	2 × 1000	40	7200	14.8
RM 182 UH	1000 × 500 × 400/420*	170.0	9202	1180 × 660 × 800	2 × 4000	2 × 1000	40	7200	14.8
for filters up to 670 × 600 × 400 mm									
RM 210 UH	750 × 650 × 500	210.0	8270	930 × 750 × 800	2 × 4000	2 × 1000	40	7200	14.8
RM 212 UH	750 × 650 × 500/520*	230.0	9302	930 × 810 × 800	2 × 4000	2 × 1000	40	7200	14.8

*inclined tank bottom **corresponds to 4 times HF output ***from RM 110/112 per phase
RM 75 UH: mains supply 230 V~ (±10 %) 50/60 Hz. RM 110 UH to 212 UH: mains supply 400 V 3N~ (±10 %) 50/60 Hz, CEKON-plug16 A.

Accessories

Select the right ultrasonic bath and the right basket according to the size of the object to be cleaned, because the objects to be cleaned must not be placed on the tank bottom!
Please calculate a suitable tolerance; The object to be cleaned must not be larger than the internal dimensions of the basket!

basket MK 210 and lid MD 110

Accessories	RM 75	Code no.	RM 110 / RM 112	Code no.	RM 180 / RM 182	Code no.	RM 210 / RM 212	Code no.
insert basket	MK 75 B	8416	MK 110	8423	MK 180	8424	MK 210	8425
insert basket for lifting device	MK 75 B	8416	MK 110 B	8417	MK 180 B	8418	MK 210 B	8419
lid	MD 75	8444	MD 110	8446	MD 180	8447	MD 210	8448

TICKOPUR Cleaning agents

- **Specially developed for use in ultrasonic baths**
- **Gentle to material and cavitation enhancing**
- **Environmentally friendly and biodegradable**

TICKOPUR R 33 and TICKOPUR TR 13 are available in different container sizes.

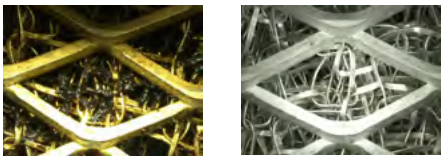
Agent	Description	Application instructions	Litres	Code no.
TICKOPUR R 33	**universal cleaner, concentrate** Removes drilling, grinding, polishing and lapping residues, oil- and grea-sebased residues, soot, etc. With corrosion protection. Gentle to material. Caution with tin and zinc. Active agents: tensides. Mildly alkaline, pH 9.9 at 1 %.	application with ultrasound: 3 –5 %, 1 – 10 minutes, 20 – 80 °C application in cleaning of filters: 3 – 5 %	5 25 200	831 835 837
TICKOPUR TR 13	**special cleaner, concentrate** Removes gumming, coking residues, grease, oil, wax, coatings and pigments, drilling, grinding, polishing and lapping residues from steel, stainless steel, glass, ceramics, plastics, rubber, metal, etc. (not for aluminium alloys, tin, zinc). For stubborn residues. Active agents: alkalis, tensides.Alkaline, pH 11.9 at 1 %..	application with ultrasound: 0,1 – 10 %, 1 – 10 min, 20 – 80 °C application in cleaning of filters: 5 – 10 %.	5 25 200	848 850 853

Cleaning examples

- Removal of oil deposits from electrostatic filters of machine tools, plastic injection machines and contaminated room air.
- Cleaning of metal filters, for example in the automotive industry and shipping.
- Removing of grease and brine residues from the grease filters in large kitchens and in the household.
- Removal of nicotine, dust and other suspended particles from metal air filters in restaurants, cinemas, theaters, hospitals and other public buildings.

For extremely dirty filters, a pre-cleaning and the connection of an oil separator may be necessary.
A further reduction of the cleaning time is achieved by use a lifting device.

hydraulic filters (before/after comparison)



grease filters (before/after comparison)

elektrostatic filters (before/after comparison)

2922a GB/2018-12

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Zertifiziert nach
ISO 9001
ISO 13485