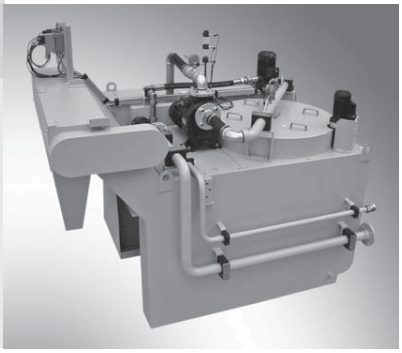
Vacuum bowl filter Type TUW

RE 50404/09.09 1/4

Technical information



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Introduction

The compact specialist for cast iron and aluminum processing, steel and non-ferrous metals

Filter medium-free full-flow filtration of oils or emulsions containing swarf and metal particles with an output of 100 - 5000 l/min.

Filtration is effected by a static slotted screen drum for the high- and low-pressure feed.

The compound tank is divided up into a dirt and clean tank.

Impurities are deposited on the periphery of the slotted screen drum and automatically cleaned away. A pump sucks the filtration out of the interior of the drum and transfers it to the clean tank.

The advantages: Good energy balance and low heat input. An international patent has been applied for the system!

Standard construction

- Robust edge-welded design
- Compound tank is divided up into a dirt and clean tank
- Filter media: Slotted screen, fabric, perforated screen
- With and without reverse flow
- Slotted screen of stainless steel, min. slot width 30 µm
- Removal slope under 55° with adapted discharge height
- Double-stranded chain with drag-chain angle
- Inlet distributor
- Level-controlled
- Dry-running protection of the pump

Application

Filtration of emulsions, solutions, waters, oils up to 75 mm^2/s during the machining of steel, cast iron, light and non-ferrous metals and plastics.

Special features

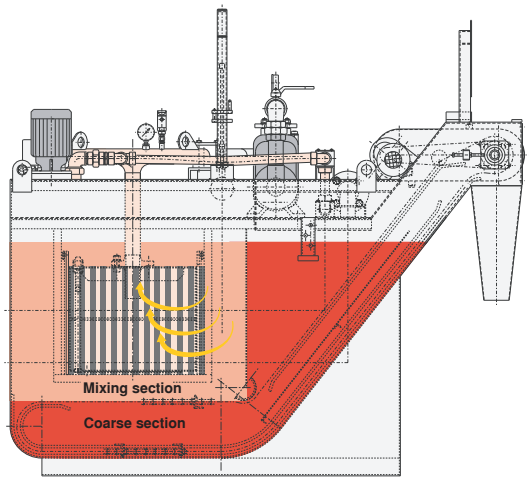
- Full-flow filtration
- Filtration by a static slotted screen drum for the high-pressure and low-pressure feed.
- Reliable extraction of problematic impurities, floating swarf and fine sludges
- No fouling up, no deposits
- Reduction of microbe formation
- Dirt removal over complete tank bottom
- Optional: Drag-cleaned clean tank
- Dry dirt removal
- High operational reliability, few wear parts
- Easy to service and maintain thanks to simple construction
- Easy removal of drum from above without draining of the fluid
- Permanent, wear-free drum cleaning
- Fast replacement of the axial cleaning elements
- Good energy balance, low heat influx
- As modular system extendable to suit customer requirements
- Can be retrofitted to existing systems

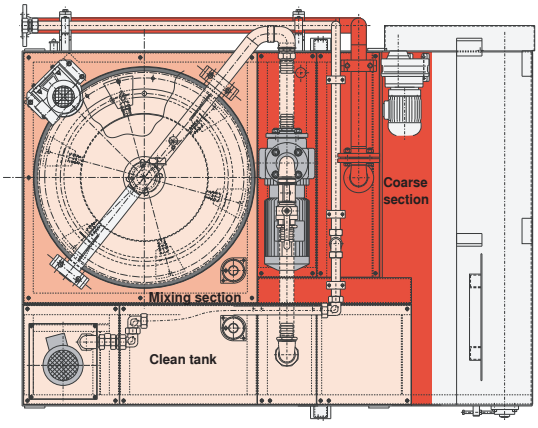
Function

The fluid to be filtered passes through the inlet distributor into the dirty section of the tank system. The fluid flows into the slotted screen drum.

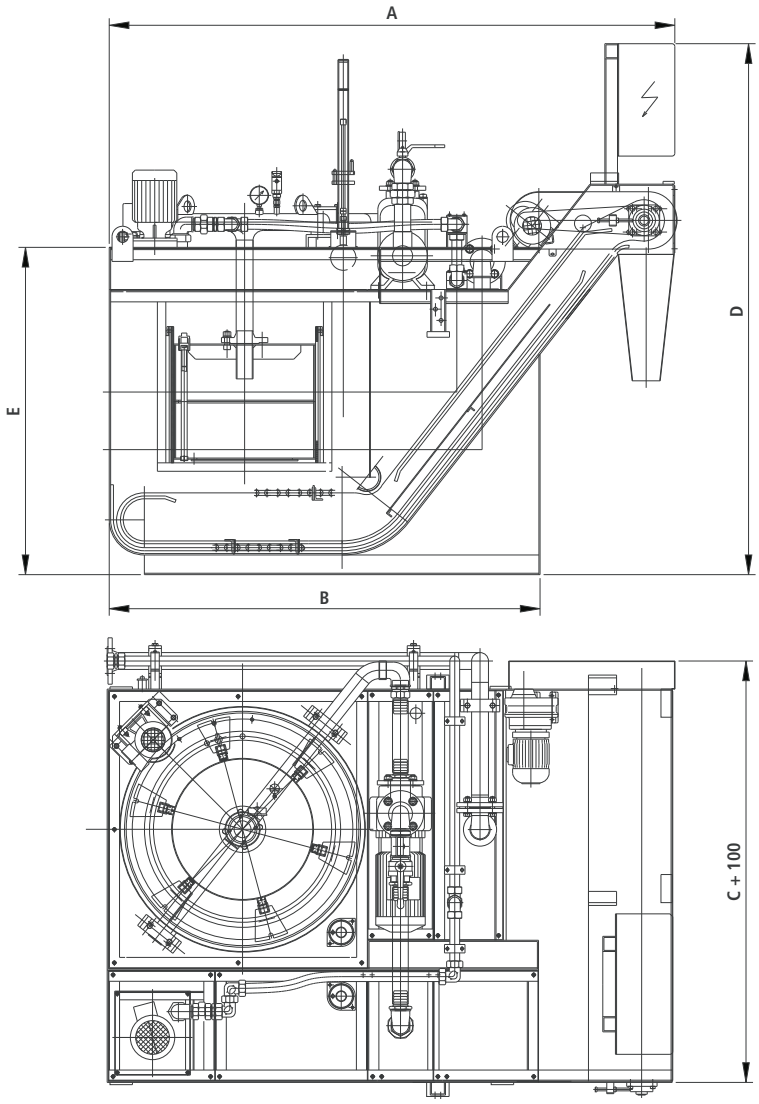
The impurities contained in the fluid are deposited on the periphery and automatically removed by the cleaning equipment.

The filtrate is sucked out of the inside of the drum via a filter suction pipe by a pump and transferred to the clean tank. The impurities removed by sedimentation are dragged out over the entire tank bottom, dried on the removal slope and removed.





Unit dimensions (dimensions in mm)



Type TUW	Slotted screen surface in m^2	Filling volume in l	Dimensions				
			A	B	C	D	E
600/1300	0.6	1300	2010	1530	1400	2000	1015
600/2700	0.6	2700	3010	2530	1400	2000	1015
1200/2700	1.2	2700	3010	2530	1400	2000	1015
600/4100	0.6	4100	4010	3530	1400	2000	1015
1200/4100	1.2	4100	4010	3530	1400	2000	1015
1800/4100	1.8	4100	4010	3530	1400	2000	1015

Special sizes on request

Notes