

EXTERNALLY FED DRUM SCREENS



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General Description and Intended Use

The externally fed drum screens are used to remove the solids (textile fiber, paper fiber, plastic parts etc.) in the wastewater with its high filtering feature. Thus, the blockage and breakdowns in the pump, valves and pipes are minimized. The treatment is performed with low costs by removing the solids. It also reduces the pollution load in the biological treatment and provides energy saving.

Working Principle Of Equipment

The externally fed drum screens are rotated by driving with the motor / reducer group. The screen surface is cleaned by spraying water from the nozzle system in the drum. The wastewater enters into the water distribution container at the entrance of the equipment. The wastewater accumulated in the container brims over and the wastewater flows into the drum and the physical treatment is carried out by keeping the solids outside the drum. The solids on the screen surface are cleaned by the scraper plate.

An externally fed drum screen consists of a motor / reducer group, a central drum shaft, a screen washing nozzle system and a scraper plate. In case energy is cut or the flow rate of the wastewater is over the designed flow rate, the unfiltered wastewater passes through the by-pass line of the drum and thus, the damaging of the drum screen is prevented.



Advantages

- Fine Filtration in High Flow Rates,
- Low First Investment Cost,
- Compact Design,
- Low Operation and Maintenance Costs,
- Low Energy Consumption,
- Lower Workmanship Requirement thanks to Automatic Cleaning,
- Easy Transportation and Mounting,
- Long Operation Life,
- Economical and Resistant Design.

ACCESSORIES

- Waste Scraper
- Wash Water Inlet Solenoid Valve
- Wash Water Inlet Line Strainer
- Washing Nozzle System
- Waste Container*
- Emergency Button*
- Local Power and Control Panel*
- * Optional accessories are defined.

Material Details

- Frame: They can be manufactured as DIN 1.4301 (AISI 304) or DIN 1.4401 (AISI 316).
- Screen Mesh: They can be manufactured as DIN 1.4301 (AISI 304) or DIN 1.4401 (AISI 316).
- Waste Scraper: It is manufactured from High Density Polyethylene (UPE 1000).

"Different materials can be preferred in accordance with the request of the customer."

Technical Specifications

- The capacity of the screen is selected according to the flow rate and solid content of the wastewater.
- It is manufactured with a water distribution container in order for wastewater to be distributed homogeneously in the equipment.
- The permeability of the screen surface can be selected as 250-6000 microns in different sector applications.
- There is a washing spray nozzle system to prevent blockage on the screen surface and a waste scraper to clean the outside of the drum.
- The nozzle system operating depending on the solenoid valve sprays clean water on screen surface and clean it.



No	Part Name
1	Motor / Reducer
2	Drum Center Shaft
3	Screen Surface
4	Waste Scraper
5	Waste Scraper Plate Adjusting Arm
6	Clean Water Connection
7	Frame
8	Wastewater Inlet
9	Bypass Outlet
10	Filtered Water Outlet



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