

Mecana Cloth Filter System

Application market	Wastewater
Market segment	Wastewater Treatment
Pumped medium	Wastewater, Sludge
Pump product	Compact
Country	Switzerland and Worldwide



Challenge

The cloth filter system is an innovative, patented system with textile filter media for the removal of solids during wastewater treatment. The system filters and separates, for example, solid waste from sludge during final clarification, reduces micropollutants and phosphorus content, separates solids from chemically/physically contaminated industrial waste water and performs many other efficient filtration tasks in waste water treatment. Pumps are required for trouble-free operation in various functions within the plant. The filtered water must be pumped off and the solids produced in large quantities during the cleaning process must be removed.

Solution

The Hidrostal Screw Centrifugal Pump with large, free passage is used as a suction pump for filtered water as well as for the removal of solids accumulated from sedimentation.

Benefits

The well thought-out and simple construction ensures low installation costs of the system. Therefore, and thanks to its non-clogging pump operation, the system guarantees continuous operation at high throughput rate:

- maximum operational reliability
- a low maintenance effort of the plant in general
- and the pumps in particular

Quantity of units sold	2 to 3 for each system; several hundred since market launch
Pump type	MCA2QE2 (customized design)
Motor data	1.8 kW / 2 pole / 50 Hz / 400 V
Material combination	Cast Iron pump body and wear parts
Duty point	Flow : from 3.0 to 12 litres per second / Head : from 7.5 to 17 meters
In operation since	2011