ANDRITZ Separation

AquaDrum
The MBR protection screen

Overall introduction

To protect the MBR, it is essential to eliminate any kind of fibrous material which could damage the system. The AquaDrum has a capture rate close to 100%.

The AquaDrum is installed after a 5-10mm fine screening device. Filtration is accomplished using a drum (holes ranging from 1 to 3mm depending on the process) provided with an endless screw which ensures the conveying. The water/sludge mix extracted by the AquaDrum can be collected directly or conveyed through a pump or other conveying device. The final sludge is generally easier to handle and lower in volume and for subsequent transport.

To ensure continuous operation and filtration efficiency, the AquaDrum has a fixed cleaning device which operates whilst the drum revolves.

Features

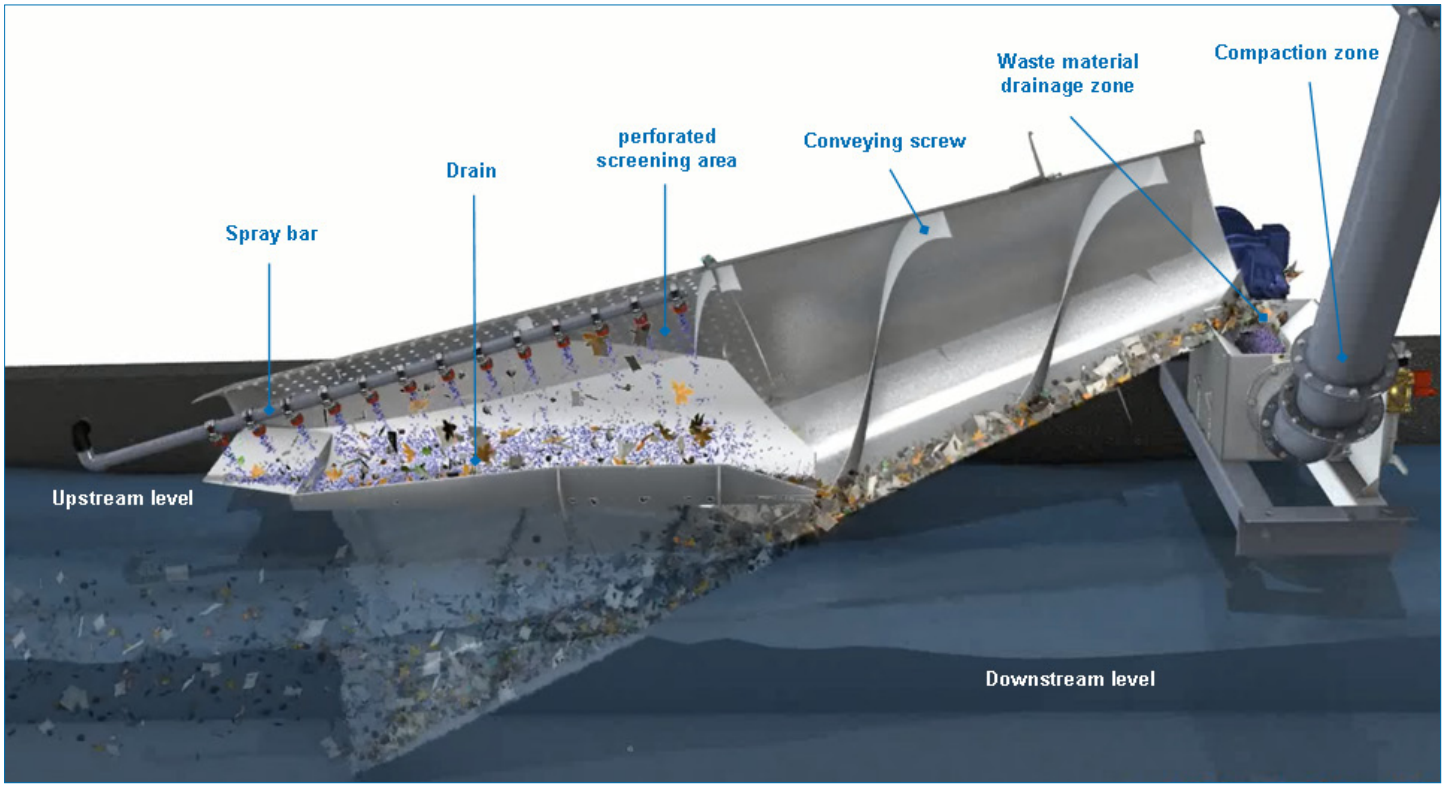
- Two functions: filtration and conveying
- Holes range from 1 to 3mm
- Area of holes from 3 to 10mm²
- Channel mounted
- Compliant with CE machine standards

Applications

- MBR protection
- Extra fine screening for fibrous material removal:
  - Tannery and laundry
  - Vegetable cleaning, etc.

AquaDrum

The MBR protection screen



Advantages

- One-piece drum giving excellent rigidity and stability of the screening area
- Roller guided drum, dismountable without tools (lifting of the drum and extraction of rollers within 30 minutes)
- No greasing, the guide rollers are greased for life
- Waste extraction through pump or conveyor
- Continuous waste extraction

Model	Holes Diameter (mm)	Holes Section (mm²)	Concentration (mg/l)	Downstream screening (mm)	Flow (m³/h)
AD 500	1 to 3	3 to 10	300 to 600	6 max.	350 to 600
				10 max.	300 to 500
				25 max.	250 to 400
AD 1000	1 to 3	3 to 10	300 to 600	6 max.	1 000 to 1 500
				10 max.	900 to 1 250
				25 max.	750 to 1 000

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