EMO
ENVIRONMENT BY TECHNOLOGY

AQUARAKE

Inclined multirake bar screen

The AQUARAKE is an inclined continuous bar screen with fixed bar rack and multiple rakes driven by chains.

This kind of screen can be used for many applications: pumping and filtering stations (irrigation, flood control, rain sewerage network), municipal treatment plant, drinking water plants, water intakes (cooling water for hydro power plants and refineries), industrial water processes and wastewater treatment plants.

Two ranges available:

DIXM with a reinforced HDPE guide system
DIM with stainless steel gears and high resistance bearings

ADVANTAGES

- Mechanical assembled curved bars for better waste collection at the bottom of the screen
- Continuous self cleaning of the grid
- Low maintenance
- Low energy consumption (low power single motor)
- Sturdy design
- From 50 mm down to 6 mm bar spacing (can be used as a coarse screen as well as a fine screen)
- High hydraulic capacity: flow rate up to 11,000 m³/h
- Option: sloted grid or perforated plate for bar spacing from 1 to 5 mm

DIXM range
no rotating part
at the bottom of
the screen

AQUAPRD00150-DPR00-C-EN

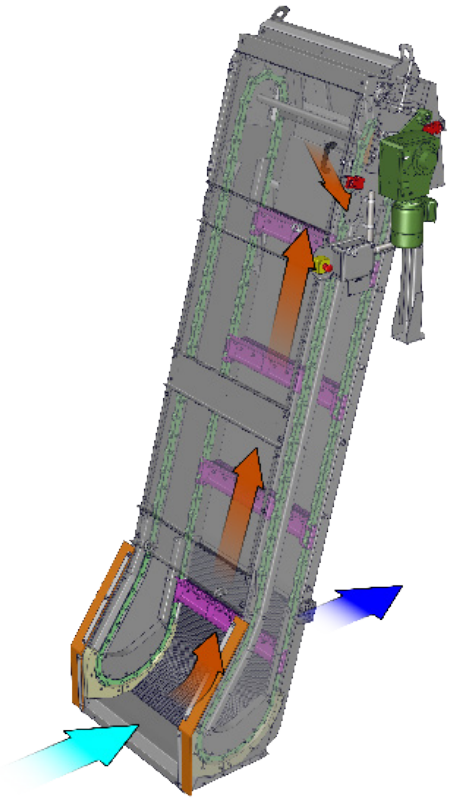
OPERATING PRINCIPLE

The AQUARAKE bar screen is an automatic continuous type bar screen where an assembly of rakes are driven by a double stainless steel chain system (one on each side of the bar screen).

The chains drive shaft is operated by a single gear motor. The automatic screen starts and stops according to upstream effluent level (level sensor) or by clock timer.

The waste trapped against the bars is caught by the multiple rake's teeth and lifted up to the discharge point. A back plate prevents the debris of falling back into the wastewater down the grid.

The rakes move upwards and pass the waste ejector. The ejector pushes the screenings from the rake and deposit out away from the screen frame into a conveyor, compactor or washing compactor.



SELECTION TABLE

AQUARAKE DIXM

No rotating part at the bottom of the screen.
The chains are guided by reinforced HDPE guides.

AQUARAKE DIM

Rotating parts at the bottom of the screen.
The chains are driven by movable sprockets mounted on a treated stainless steel shaft (reinforced hardness)

Description			
Type	DIXS	DIXM	DIM
Discharge height	from 1 to 5 m	from 1 to 20 m	from 1,50 to 15 m
Channel width	from 300 to 500 mm	from 400 to 1000 mm	from 400 to 2000 mm
Screening mesh *	from 6 to 50 mm	from 6 to 50 mm	from 6 to 100 mm
Inclination	60° to 75°	60° to 75°	60° to 75°

* standard with bar rake, bar spacing from 1 to 5 mm upon request with sloted grid or perforated plate

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