

Daiki Ataka Engineering Co.,Ltd.

High Rate Filtration 「Marimo」

- High Rate Fiber Filtration for sewage and industry waste water reuse.

Features

- Filtration rate over **1 0 0 0 m/d** is possible, this is 2 or 3 times of rapid filtration.
 - Head loss is very low because of the high porosity.
- Installation area is about 1/2 because of the high filtration velocity.

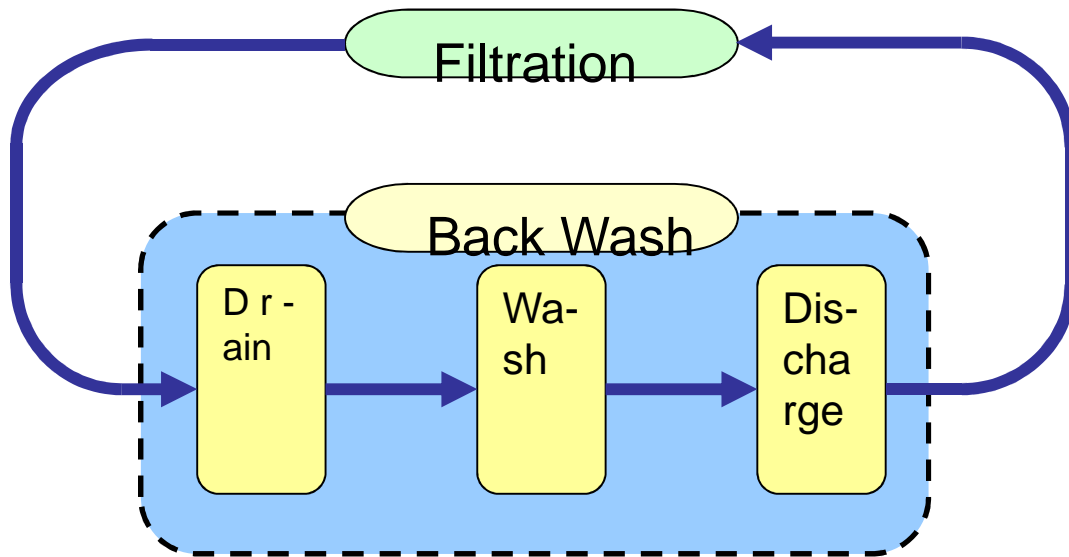


Outline

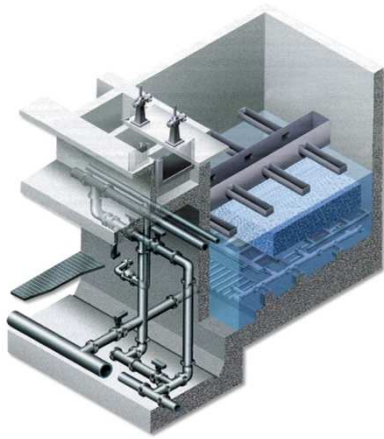
「Marimo」 is the high rate fiber filtration equipment using specially-processed fiber media. High porosity of the fiber media achieves high filtration velocity and this results in the small installation space compared to conventional rapid filtration. In case of the large influent like sewage plant, reinforced concrete structure is applied and in case of the small influent like industry waste water, steel made reactor is applied.

Comparison of the 「Marimo」 and rapid filtration

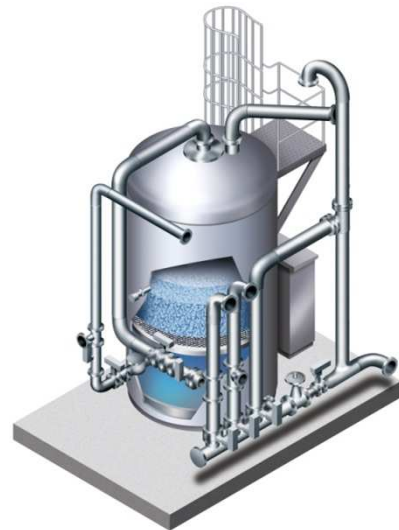
Item	Marimo	Rapid filtration
Filtration Velocity	1,000m/d	150~300m/d
Head Loss	~1.5mH	~3.0mH
SS Removal Capacity	6kg-SS/m ³ ·bed	4kg-SS/m ³ ·bed
Washing Water (Washing water/Influent)	Below 2%/wash	About 10%
SS of Effluent	Below 5mg/ℓ	below 5mg/ℓ
SS Removable Efficiency	50~80%	50~80%
Installation Area (Per Influent)	1/2~2/3 of rapid filtration	
Maintenance Cost (Per Influent)	Similar to rapid filtration	



• 「Marimo」 Operation method



• RC structure 「Marimo」



• Steel made 「Marimo」

References

About 120 facilities is installed for the purpose of the domestic sewage reuse or world wide industry waste water reuse since 1985.

Merit

- Filtration equipment is possible to be downsized.
- SS removal quantity is about 1.5 times of the rapid filtration.

Daiki Ataka Engineering Co.,ltd.
Overseas Business Dept.

<http://www.atk-dk.co.jp/english/index.html>

E-mail info06@atk-dk.co.jp

5-3-28 Nishikujo Konohana-ku Osaka 554-0012, Japan

Oskaka Head office : TEL 81-6-6468-9681 FAX 81-6-6462-1473

Tokyo Office : TEL81-3-3845-8622 FAX81-3-3845-8629