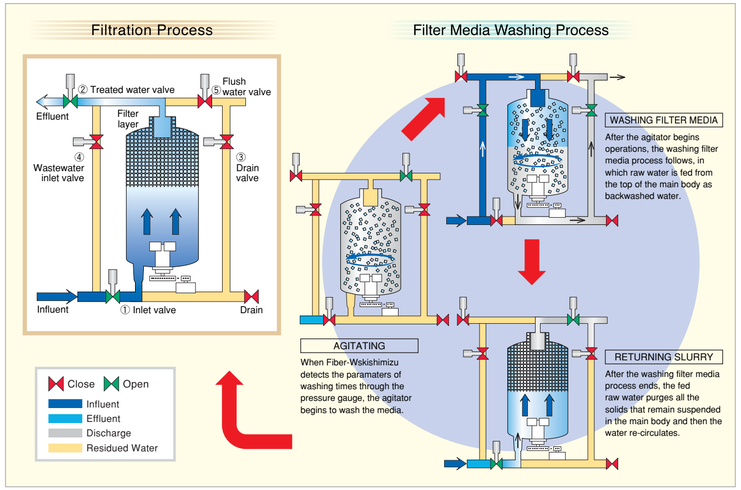
Diagram of Washing Mechanism of Rapid Filtration Equipment



Application

- The advanced treatment of industrial water
- The advanced treatment of sewage
- The general waste water treatment
- The filtration processing of seawater (Aquaculture, the chemical industry)
- The purification of pool water
- The purification of the aquarium and the zoo
- The purification of the pond and fountain

Standard Specification

Type		FW-10	FW-20	FW-40	FW-80	FW-120	FW-160	FW-200	FW-300
Filter Area	(m²)	0.28	0.56	1.0	2.0	3.1	4.1	5.3	7.5
Capacity	(m³/Hr)	20	40	70	140	210	280	350	520
Agitator	(kW)	1.5	3.7	5.5	11	18.5	30	30	45
Control Panel		Steel Box Outdoor Type							
Automatic Valve		Electric Butterfly Valve							
Power Source		3 Phase AC 200V							
Diameter	(mm)	600	850	1,150	1,600	2,000	2,300	2,600	3,100
Hight	(mm)	2,600	2,750	3,035	3,320	3,725	4,073	4,230	4,800
Empty Weight	(kg)	720	990	1,520	2,740	4,480	6,100	7,600	10,850
Operating Weight	(kg)	1,200	2,000	3,420	6,670	10,990	15,100	20,100	28,750
Pipe Dia	Effluent	65A	80A	100A	150A	200A	200A	250A	300A
	Inlet	65A	80A	100A	150A	200A	200A	250A	300A
	Discharge	65A	80A	100A	150A	200A	200A	250A	300A
	Drain	40A	50A	50A	100A	100A	100A	100A	150A
Body Standard Material		SS400							

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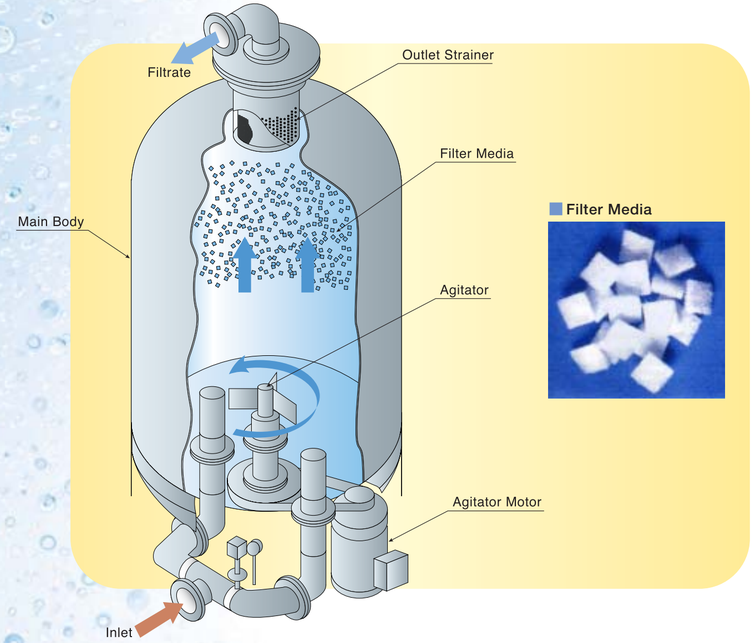
Fiber Media Rapid Filtration Equipment

FIBER-WAKISHIMIZU FW

ISHIGAKI

The very latest technologies make it possible.
Eco-friendly Fiber Media Rapid Filtration Equipment-the FW Series.

Site Picture（Structure）

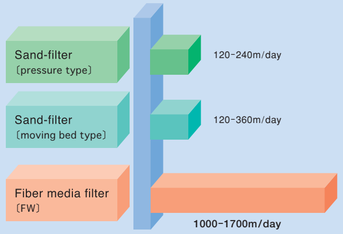


■ Filter Media

Features

- **High filtration velocity leads to the shop space for the facility smaller than the sand filter.**
  - It cuts down the investment cost of the facility.
  - No drastic renewal of existing facility is necessary due to its small space and its light weight.
- **Since washing the filter media is solid and easy, stable and continuous operation without labor for a long time is possible.**
- **The cost of maintenance is low.**
  - Since smaller type of pump is available owing to the little head loss of Filter Media, the cost of the electricity becomes low.

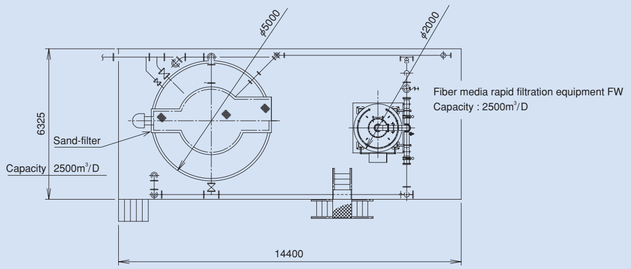
The benchmark of the filtration velocity of the various equipments.



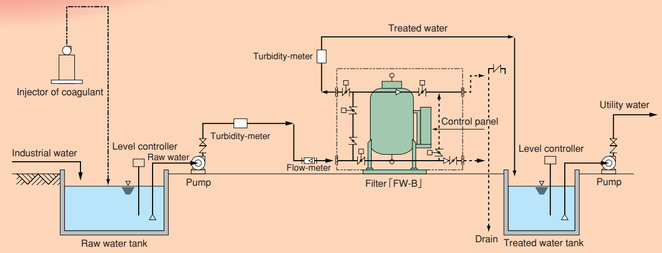
Reference data

Comparison of Fw and Sand-filter in same capacity

Right side : Fiber media rapid filtration equipment
（Fiber-Wakishimizu）FW
Left side : Sand-filter



The advanced treatment facility of industrial water



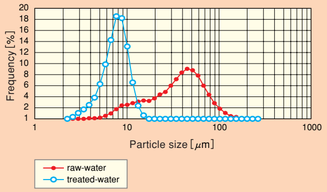
Filtration data of industrial water (river-water)

Application

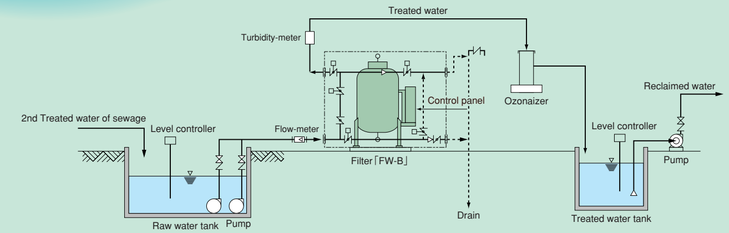
- Filtration of river-water, pond-water
- The advanced treatment of industrial water
- Cyclic filtration cooling water

	Injection rate of coagulant mg/ℓ	Liner velocity	Turbidity Raw-water	Turbidity Treated-water	Removal rate %
Industrial water	Non	1320	2.8	0.2	92%
	Non	1680	8.0	2.0	75%
	17	720	8.0	0.3	96%
	10	768	8.8	0.0	100%
River water	Non	1440	3.6	0.92	74%
	Non	1632	5.0	1.0	80%
	20	816	16.3	0.9	94%
	10	816	16.3	0.9	94%

Distribution of particle size

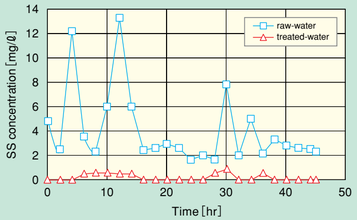


The 3rd advanced treatment facility of sewage



Filtration data of sewage (2nd treatment water)

Application

■ 3rd treatment
- Whole volume filtration
- Reclaimed water inside plant
- Water resource for rejuvenation of brook and stream in city

■ The general waste water treatment
- Finishing treatment after various biological treatments
- Removal of excessive SS in supernatant fluid in coagulation sedimentation tank