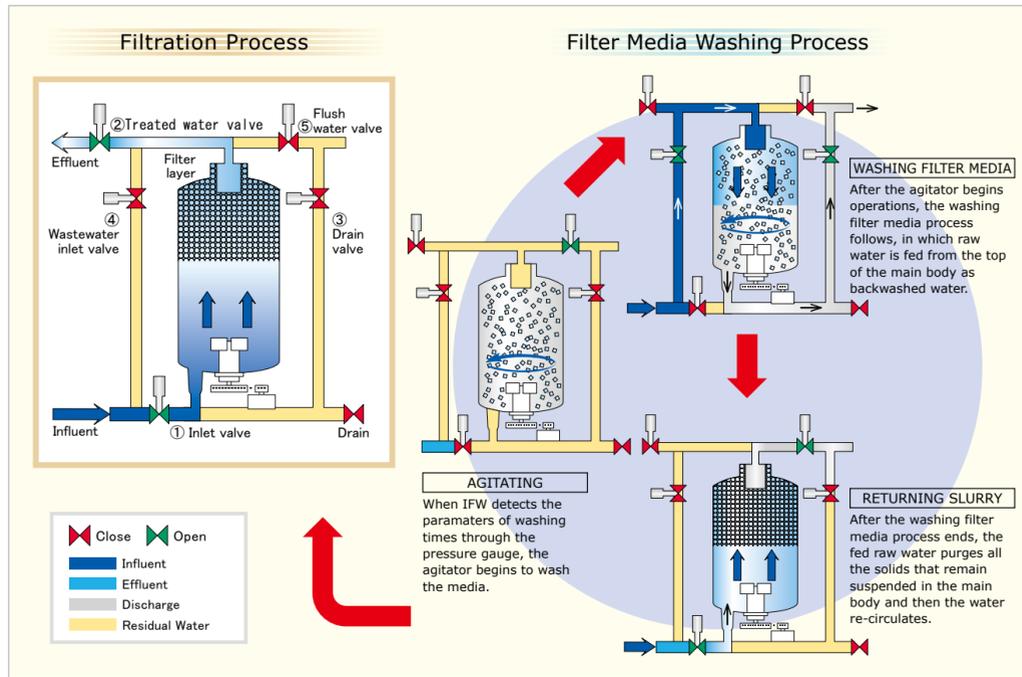


Diagram of Washing Mechanism of IFW



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 pond.
- The purification of the pond and fountain.

Standard Specification

Type	IFW-10	IFW-20	IFW-40	IFW-80	IFW-120	IFW-160	IFW-200	IFW-300
Filter Area (m <sup>2</sup> )	0.28	0.56	1.0	2.0	3.1	4.1	5.3	7.5
Capacity (m <sup>3</sup> /Hr)	10~20	20~40	35~70	70~140	100~220	140~290	180~370	260~520
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
Height (mm)	2,600	2,750	3,035	3,320	3,725	4,073	4,230	4,800
Empty Weight (kg)	740	1,000	1,500	2,800	4,500	6,100	7,900	10,850
Operating Weight (kg)	1,200	2,000	3,400	6,700	11,100	15,100	19,900	29,900
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							

ECFE-001  
011209

Fiber Media Rapid Filtration Equipment

**IFW** FIBER WAKISHIMIZU



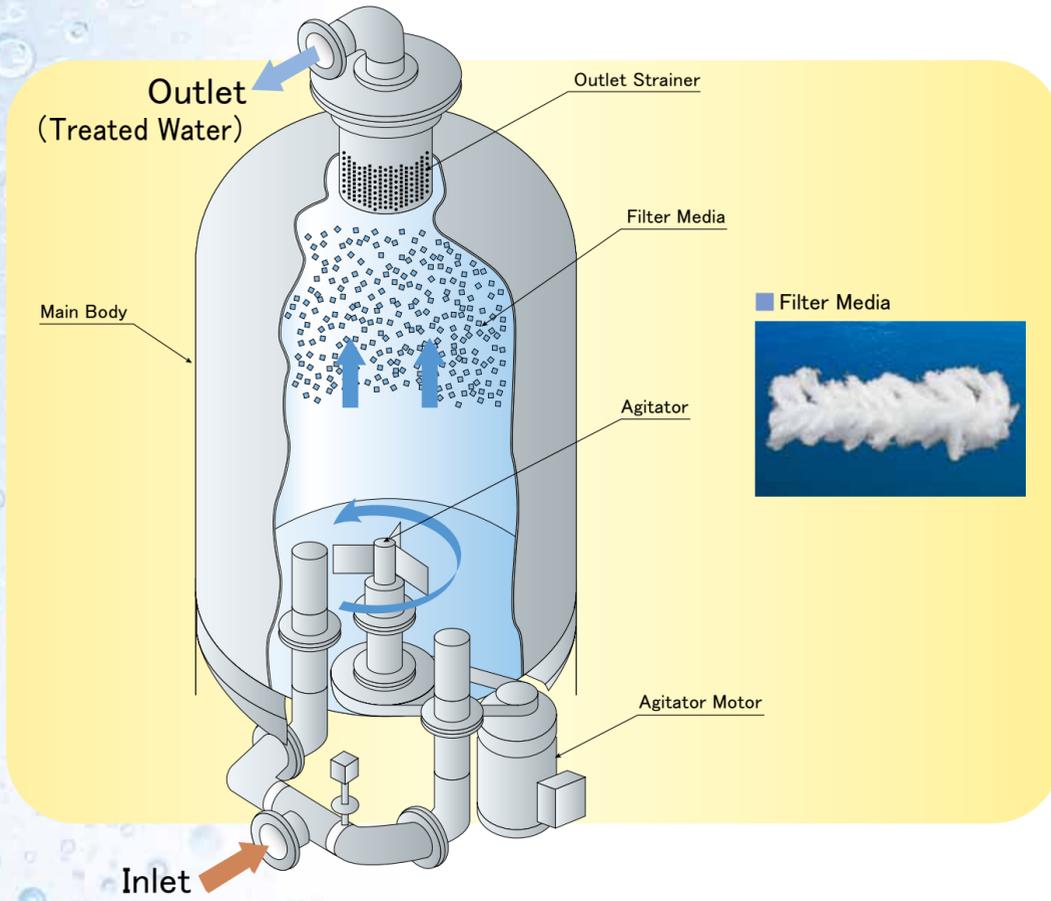
**ISHIGAKI COMPANY, LTD.**

1-1-1, Kyobashi, Chuo-ku, Tokyo 104-0031, Japan  
 Phone: +81-3-3274-3518 FAX: +81-3-3274-3557  
 E-mail: spokes@ishigaki.co.jp  
<http://www.ishigaki.co.jp/english>

**ISHIGAKI**

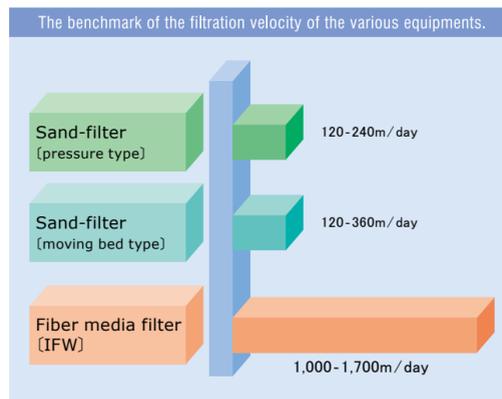
# The very latest technologies make it possible. Eco-friendly Fiber Media Rapid Filtration Equipment-the IFW Series.

## Site Picture (Structure)



## 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.

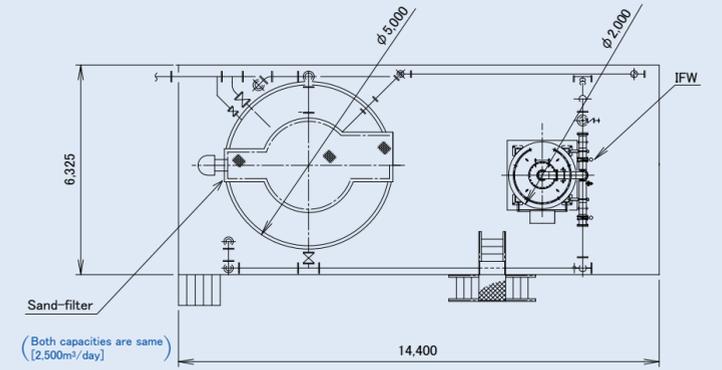


## Reference data

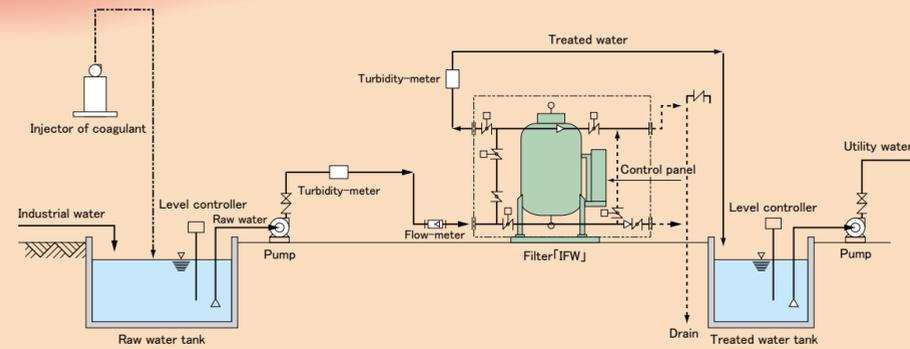
### Comparison of IFW and Sand-filter in same capacity



Right side : Fiber media rapid filtration equipment  
Left side : Sand-filter  
Capacity : 2,500m<sup>3</sup>/D



### The advanced treatment facility of industrial water



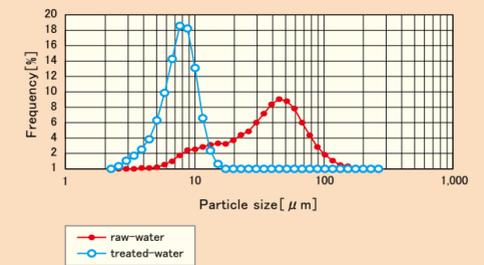
### Filtration data of industrial water (river-water)

#### Application

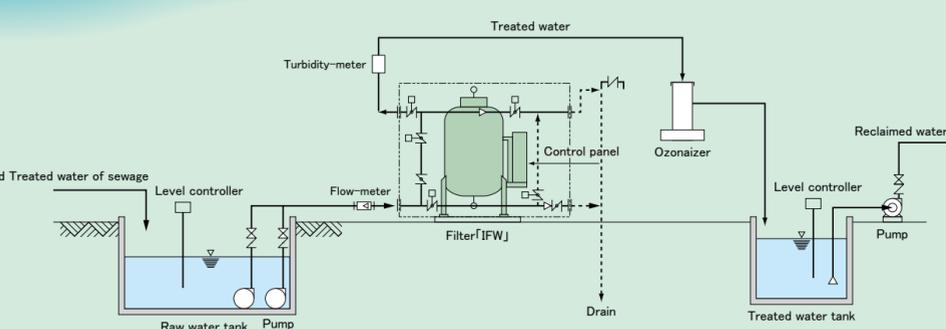
- Filtration of river-water, pond-water
- The advanced treatment of industrial water
- Cyclic filtration cooling water

	Injection rate of coagulant mg/l	Liner velocity	Turbidity		Removal rate %
			Raw-water	Treated-water	
Industrial water	Non	1,320	2.8	0.2	92%
	Non	1,680	8.0	2.0	75%
	17	720	8.0	0.3	96%
River water	10	768	8.8	0.0	100%
	Non	1,440	3.6	0.92	74%
	Non	1,632	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

