



## ASF(AUTO SIPHON FILTER)

 KOBELCO ECO-SOLUTIONS CO.,LTD.

ASF to enable supply of clean drinking water at low operating cost in rural area.



**Combination of  
PreTreatment (left side)  
and ASF (right side)  
System**

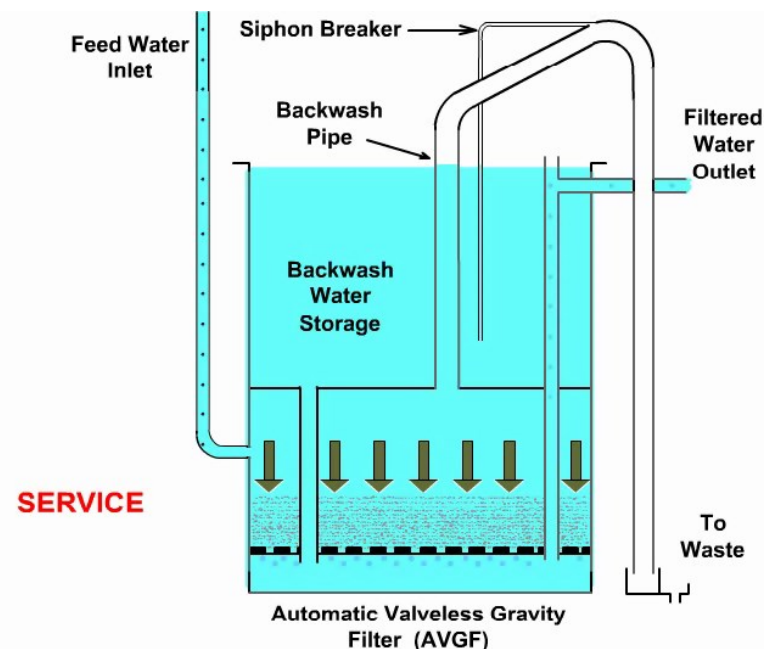
**Water Volume:  
1,375m<sup>3</sup>/day**

### Features

- This technology is suitable to provide clean water in less populated area like villages.
- Compared with the other filters, the operation and maintenance cost is drastically lower because of no operators, washing pumps, electricity.
- We have provided more than 2,000 units to rural areas in Japan giving many people the access to clean potable water.

### Overview (Technical principles, actions, etc.)

- This is a full-automated gravity filter that doesn't need automatic valves, flow control valves and backwash pumps and any equipment.
- As filtration continues, turbidity components on the filter layer increase, and head loss of the filter increase, then water level in the backwash pipe rises gradually.
- When the water level over the top of the backwash pipe, siphon is established and water starts to flow through the backwash pipe. This backwash process is full-automated. So it does not need operators and electricity !



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## Performance /specifications of technology / product

Model number	Inner Diameter (mm)	Filtration Area (m2)	Filter capacity (m3/h)		Weight during Operation(ton)	Model number	Inner Diameter (mm)	Filtration Area (m2)	Filter capacity (m3/h)		Weight during Operation(ton)
			7.5m/h	5m/h					7.5m/h	5m/h	
1	900	0.7	5	3	5	∴	∴	∴	∴	∴	∴
2	1,200	1.2	9	6	8	14	4,900	18	135	90	100
3	1,500	1.8	13	9	12	15	5,500	24	175	115	125
4	1,800	2.6	19	13	16	16	6,200	29	215	140	150
∴	∴	∴	∴	∴	∴	17	6,700	35	260	170	180

## Usage examples / result

- We have already provided more than 2,000 units to rural areas in Japan giving many people the access to clean potable water.
- And we also provided ASF in Vietnam and Cambodia.

