

## GS Seires Gravity Filter

The GS series gravity filters are suitable for white water systems with high fiber content. It can handle the sealed water of the vacuum pump, the clear water of the white water recycling system, the water of the washing machine, and the flocs in the white water produced by the pressing section.

The white water is fed into the interlayer between the two containers of the gravity filter through the pipeline, then overflows from the top and is filtered through a fine mesh. The fibers and solids left on the mesh are rinsed to the slag outlet by a continuously rotating spraying system. The filtered clear water is collected in the internal container of the filter and discharged from the bottom outlet, with some being reused for the spray system.

The high efficiency of the GS filter comes from the controlled flow and shearing effect on the filter element surface. The solids are constantly rinsed by the spraying pipe to the center of the filter element and discharged. At the same time, the flow distributor ensures uniformity of the inflow. No manual maintenance is required, and the filter element can be restored to its original high-efficiency state.

The low pressure spraying system and drive device of the gravity filter can be easily installed and maintained from the top, and the GS filter structure is convenient for checking and maintaining the filter element.

### Technical Features and Advantadges

- Handle large volumes with high solid content
- Gravitational effects reducing the need for pump usage
- Continuously cleaning the media through rotating spray nozzles
- The rotating spray nozzles are the only moving component
- Corrosion-resistant fiberglass and stainless steel are available
- Low electricity usage , Minimal maintenance
- High efficiency, Maximum output
- No external water supply is required
- Energy is saved by reusing warm water from the production process.



### Advanced Technology

The GS series gravity filters effectively remove long fibers, short fibers, felt and granular solids contained in white water in the production process without the use of pressure filters. When upstream system anomalies occur, such as sudden increase in water intake, the gravity filter can still perfect the diversion by taking advantage of the large volume of the tank, without reducing the water quality. In many application scenarios, equipment failure or gravity filter backflow can greatly increase the fiber content in white water. The GS series gravity filters can continuously filter the white water and eliminate backflow of the filters.

Occasional failures in the white water recovery system often interfere with the use of recycled white water in the sprinkler system. Kaiden's filters can handle these failures and ensure that the processed high-quality water meets the requirements for sprinkling. White water felt from the collection tray, dewatering roll and felt cleaning system in the squeeze section has a high content, and the gravity filter is specifically designed to collect felt and fully recycle water from the squeeze section. Clarified water from the round net paper machine white water recovery system is usually not reusable without special treatment. The GS filter can effectively remove suspended solids in the water, otherwise, once the water is used for sprinkling, these suspended solids will clog the felt and clog the nozzle.

APPLICATION: long net paper machine, round net paper machine

## Quick-detached Filter Element

Filter element replacement time is less than 15 minutes.  
The airbag's sealed design is conducive to observation.  
No disassembly of screening components is required.  
No removal of spray support is necessary.



## Specifications

Model	Diameter mm	Flowrate m <sup>3</sup> /h	Height mm	Inlet&Outlet Size	Drain Size	Weight KG	Spray Flow m <sup>3</sup> /h
LGS-1500	1500	25-135	1500	DN150	DN250	363-2040	14
LGS-2000	2000	55 ~ 350	1830	DN250	DN350	590-4082	25
LGS-2500	2500	75 ~ 480	1900	DN300	DN400	646-5011	31
LGS-3000	3000	115 ~ 740	1980	DN350	DN450	798-7483	37

- The filtration capability varies with the size of the inlet and outlet size, filtration degree and the concentration of the particles.
- The height of the support frame can be adjusted according to the specific application.
- The water that comes out of the filter can be used as spraying water at the pressure of 1.7-2.75bar.



GS Seires Gravity Filter As-built Photo