

Datasheet



Pressurized Sand Filter



Equipment Description

Pressurized Sand Filters are commonly used products for removing suspended solids and turbidity from water and wastewater. Their design is based on cost-efficiency, reliability, and performance for filtering water. The pressurized sand filters we manufacture ensure maximum use of surface area, less pressure drop in the filter bed, and effective removal of suspended solids.

Pressurized Sand Filters can be designed in horizontal or vertical form. The filters, designed according to the desired capacity, can be operated either automatically or manually.

Standardized product design can be within the following parameters,

Flowrate	: 1 m ³ / hr. - 350 m ³ / h / unit
Inlet TSS	: Up to 40 Mg / L
Inlet Turbidity	: Up to 30 NTU

For wastewater exceeding the above parameters, custom design and manufacturing are available.

Advantages

- Simple design maximizes reliability and efficiency.
- Filtration range of up to 20 - 40 microns.
- Standard and effective quartz sand medium.
- Available in FRP, MSRL, MSEP, and SS.
- Manual, Semi-Automatic and Automatic operation.
- Air cleaning is available for high-flow pressure vessels.
- Internal distribution and collection system.
- Integrated operation feature.



Areas of Use

Drinking Water Treatment

- Removal of Turbidity and TSS
- Removal of Iron, Manganese, Fluoride, Arsenic, etc.
- Pre-treatment before softening unit

River Water Treatment

- Removal of Turbidity and Total Suspended Solids

Wastewater Treatment Plant

- Removal of Turbidity and TSS



Operating Principle

Raw water is passed through a pressure sand filter, with the filter media supported by progressively larger beds of gravel. During the cycle, it captures dirt and suspended solids from the water and deposits them in the filter bed.





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