



RS-007 Sand Filter

Sand Filter

Sand filter provides the removal of solids/particles suspended in the liquid by passing through a filter bed comprised of a granular or filter medium with the functions of sediment, straining, impacting, coherence, and adhesion. The raw wastewater is fed and distributed through an inlet partition, and the solids/particles are retained while flowing through the filter medium bed. The filtered water is collected in the underdrain system, which is also used to re-suspend and backwash the filter medium at the end of filtration run to remove the solids/particle wastes. It is ideal and efficient for waster and wastewater tertiary treatment.

Purpose:

Remove solids/particles in tertiary water/wastewater treatments.

Applications:

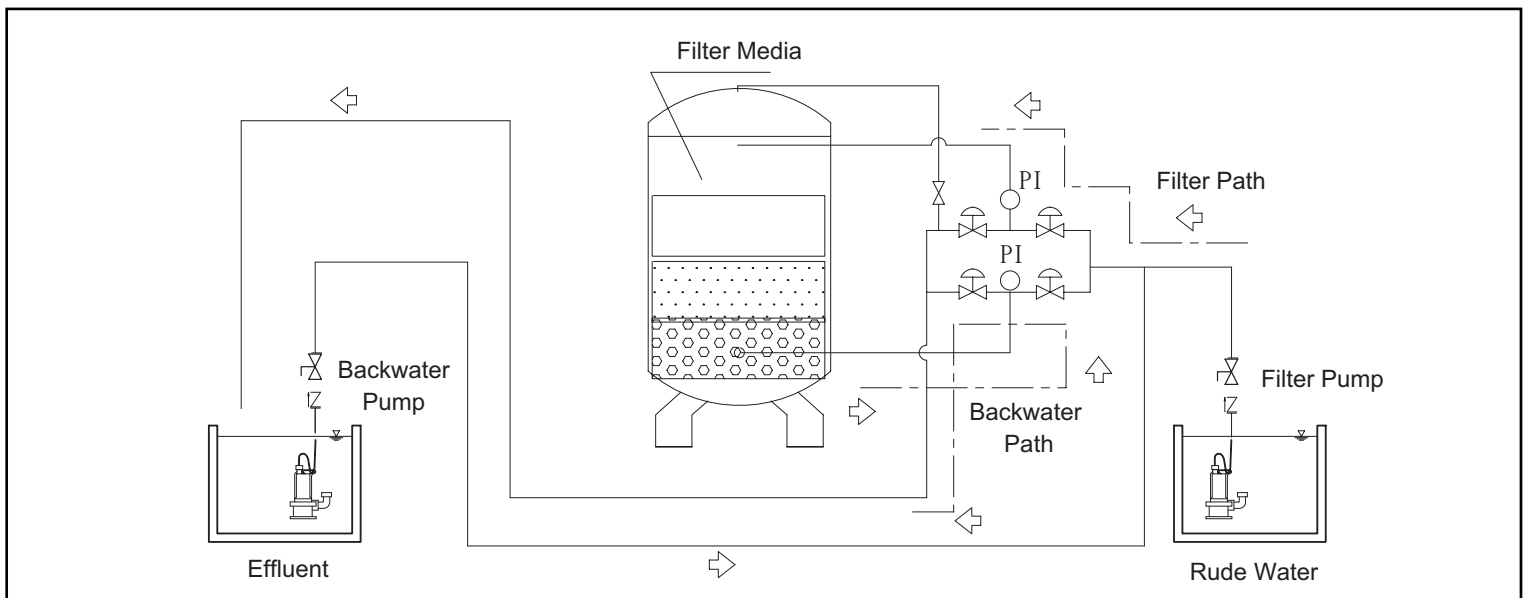
For the uses of long filter run, low O/M cost, and superior effluent quality

1. Advanced treatment of wastewater effluent polishing.
2. Groundwater, washing water, and process water purification.
3. Swimming pool, landscape fountain water, Sauna water, and cooling tower make-up water recycling/reuse.

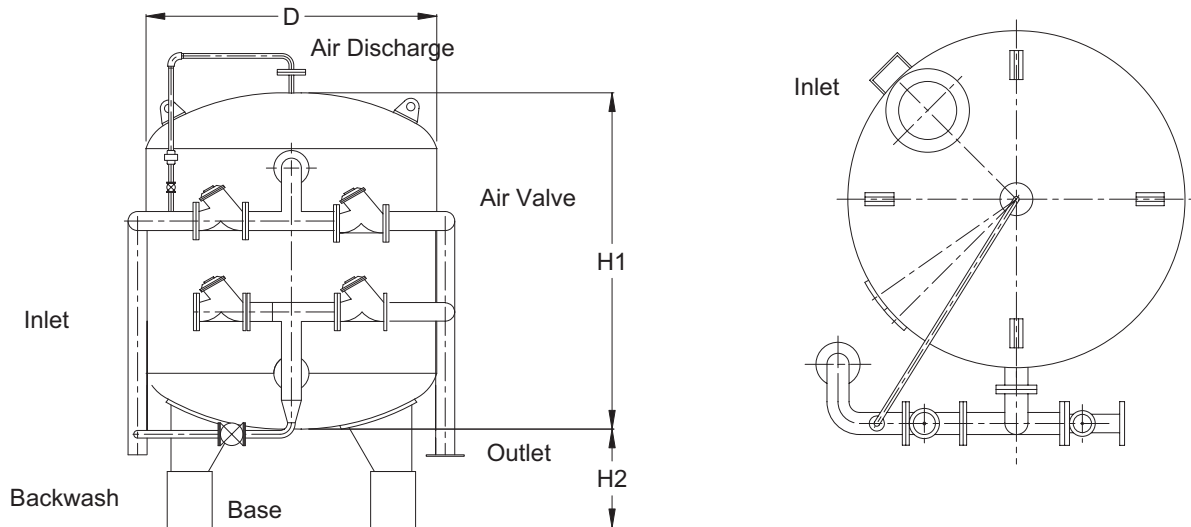
Features:

- › Numerous filtration bed media and their combinations: anthracite, sand, garnet, limonite, granular activated carbon, and ion exchange resins.
- › Functional modes: filtration run, backwash, discharge, transitional flow, bypass, and test.
- › Modular capacity ranges from 5 to 100 m³/hr.

Equipment Process



Equipment Drawings and Section Views



Specifications

Model	Tankage Diameter (mm)	Tankage Height** (mm)	Tankage Thickness (mm)	Pipe Diameter (mm)	Processing Capacity* (CMH)
FT-500	500	1525	3.2	25	3 ~ 3.5
FT-600	600	1525	3.2	25	4.5 ~ 5
FT-700	700	1525	3.2	40	6 ~ 6.5
FT-800	800	152	4.5	40	7.5 ~ 8.5
FT-900	900	1525	4.5	40	9.5 ~ 11
FT-1000	1000	1525	4.5	50	12 ~ 13.5
FT-1100	1100	1525	4.5	50	14.5 ~ 16.5
FT-1200	1200	1525	4.5	50	17 ~ 20
FT-1300	1300	1525	4.5	65	20 ~ 22.5
FT-1400	1400	1525	4.5	65	23 ~ 26.5
FT-1500	1500	1525	4.5	80	26.5 ~ 30
FT-1600	1600	1525	4.5	80	30 ~ 34.5
FT-1700	1700	1525	4.5	80	34 ~ 38.5
FT-1800	1800	1525	6.0	80	38 ~ 43.5
FT-1900	1900	1525	6.0	80	42.5 ~ 48
FT-2000	2000	1525	6.0	100	47 ~ 53.5
FT-2100	2100	1525	6.0	100	52 ~ 59
FT-2200	2200	1525	6.0	100	57 ~ 65
FT-2300	2300	1525	6.0	100	62.5 ~ 71
FT-2400	2400	1525	6.0	100	68 ~ 77
FT-2500	2500	1525	6.0	100	74 ~ 83.5
FT-2600	2600	1525	6.0	125	80 ~ 90.5
FT-2700	2700	1525	6.0	125	86 ~ 97.5
FT-2800	2800	1525	6.0	125	92.5 ~ 105
FT-2900	2900	1525	6.0	125	99 ~ 113

*Filtration rate about 15 ~ 17 m³/m²hr **Net height of filter tankage

Sand Filter