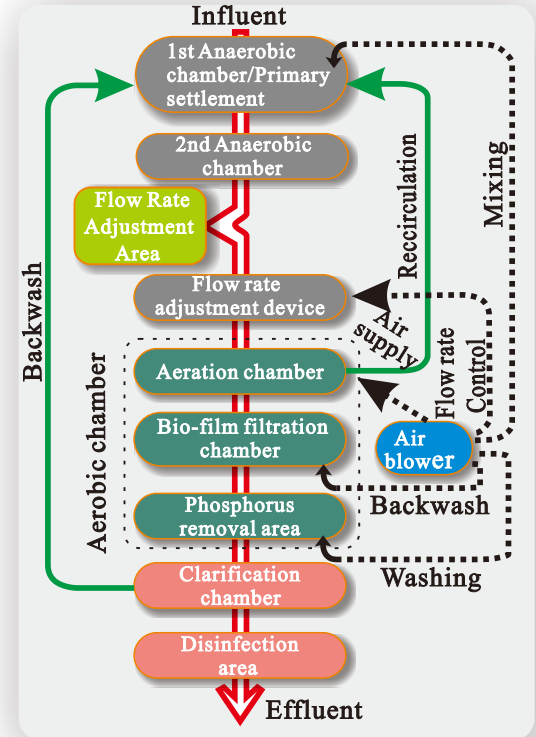
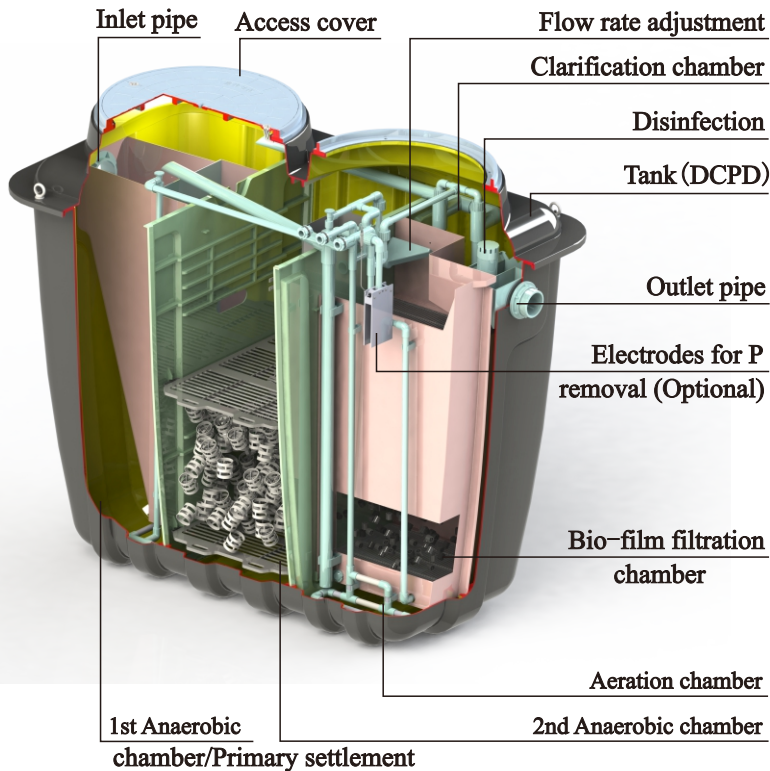


STP-HS-0.5B

Wastewater Treatment Systems with Nutrient(N,P)Removal

Hydraulic loading:500L/day



Advanced Performance

The systems are designed for installations in environmentally sensitive area and the effluent can meet:

- COD \leq 60mg/L
- SS \leq 20mg/L
- TN \leq 15mg/L
- TP \leq 1mg/L
- NH₃-N \leq 8mg/L

Automatic backwash

Automatic backwash controlled by timer ensures:

- stable and highly efficient treatment performance
- automatically controlling the thickness of bio-film on the filter media
- better nitrogen and SS removal
- the filter media not clogging

Nitrogen removal

In anaerobic chambers, nitrogen-removing microorganisms grow on the surface of filter media. The microorganisms convert nitrates in the re-circulated water coming from the aerobic chamber to nitrogen gas which returns to the atmosphere without causing any harm.

Phosphorus removal

Through electrolytic process of electrodes in the wastewater, phosphate is generated and precipitated, thus removing phosphorus. The water washes the surface of electrodes, further stabilizing P removal.

Flow rate adjustment

Combined with airlift pump and overflow weir, flow rate adjustment device easily controls the volume of both effluent water and re-circulated water.

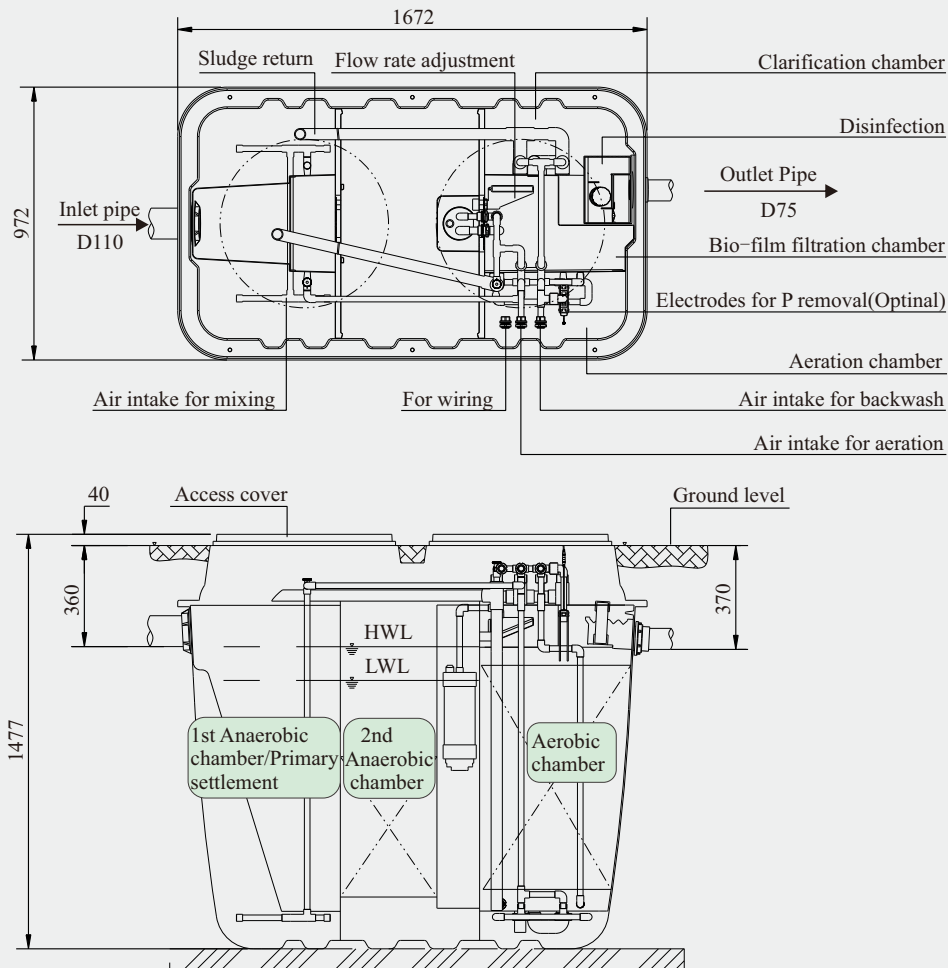
Details of the systems

Model	Effective volume m ³				Total volume m ³	Dimension mm			Inlet invert depth (mm)	Outlet invert to base (mm)	Weight (Kg)	Air blowers		Diameter of access cover (mm)
	1st anaerobic chamber/Primary settlement	2nd anaerobic chamber	Aerobic chamber	Clarification chamber		length	width	height				Power W(50Hz)	Airflow L/min	
DSP-SH-05B	0.334	0.371	0.284	0.112	1.437	1672	972	1477	360	370	250	30	40	600

Warranty

15 years for tank, 2 years for electrical components

Structure diagram



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