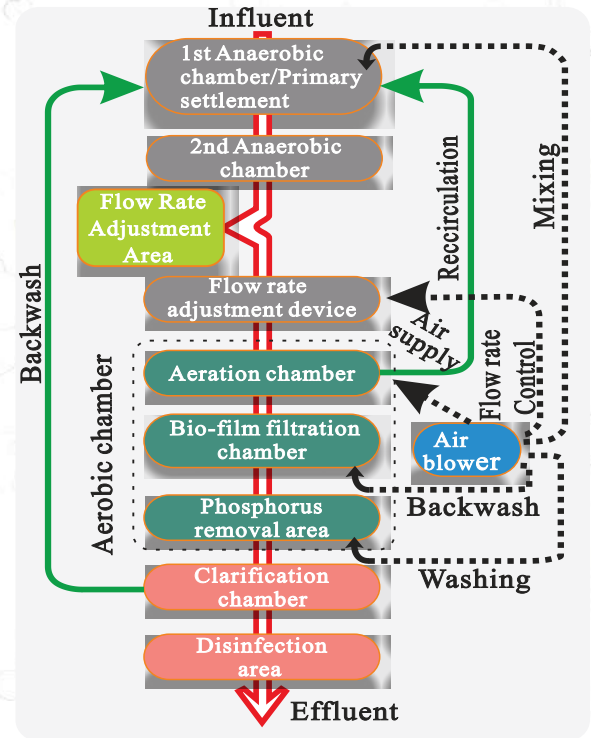
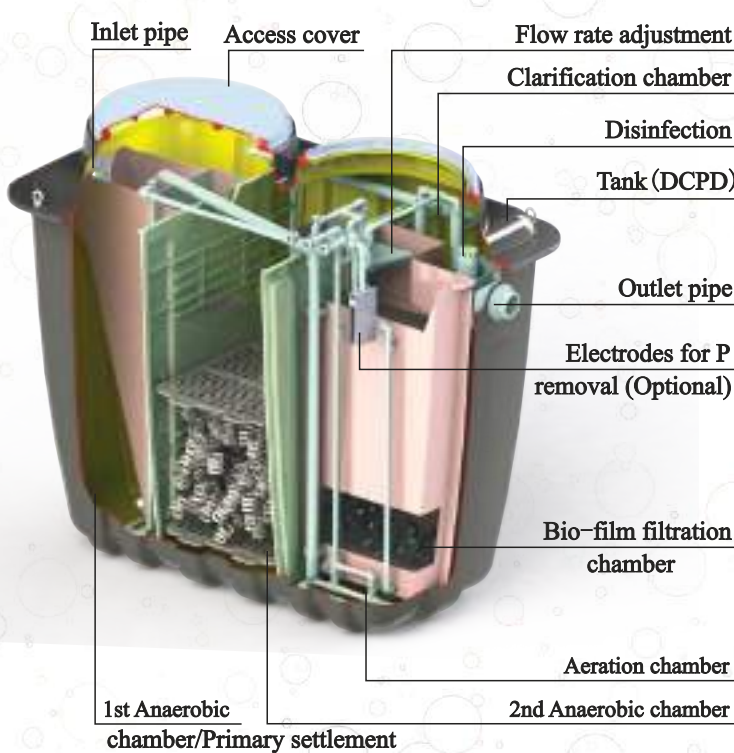


## Compact Wastewater Treatment Systems with Nutrient (N,P) Removal



### 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
- NH<sub>3</sub>-N  $\leq$  8mg/L

### 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.

### 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

### 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.



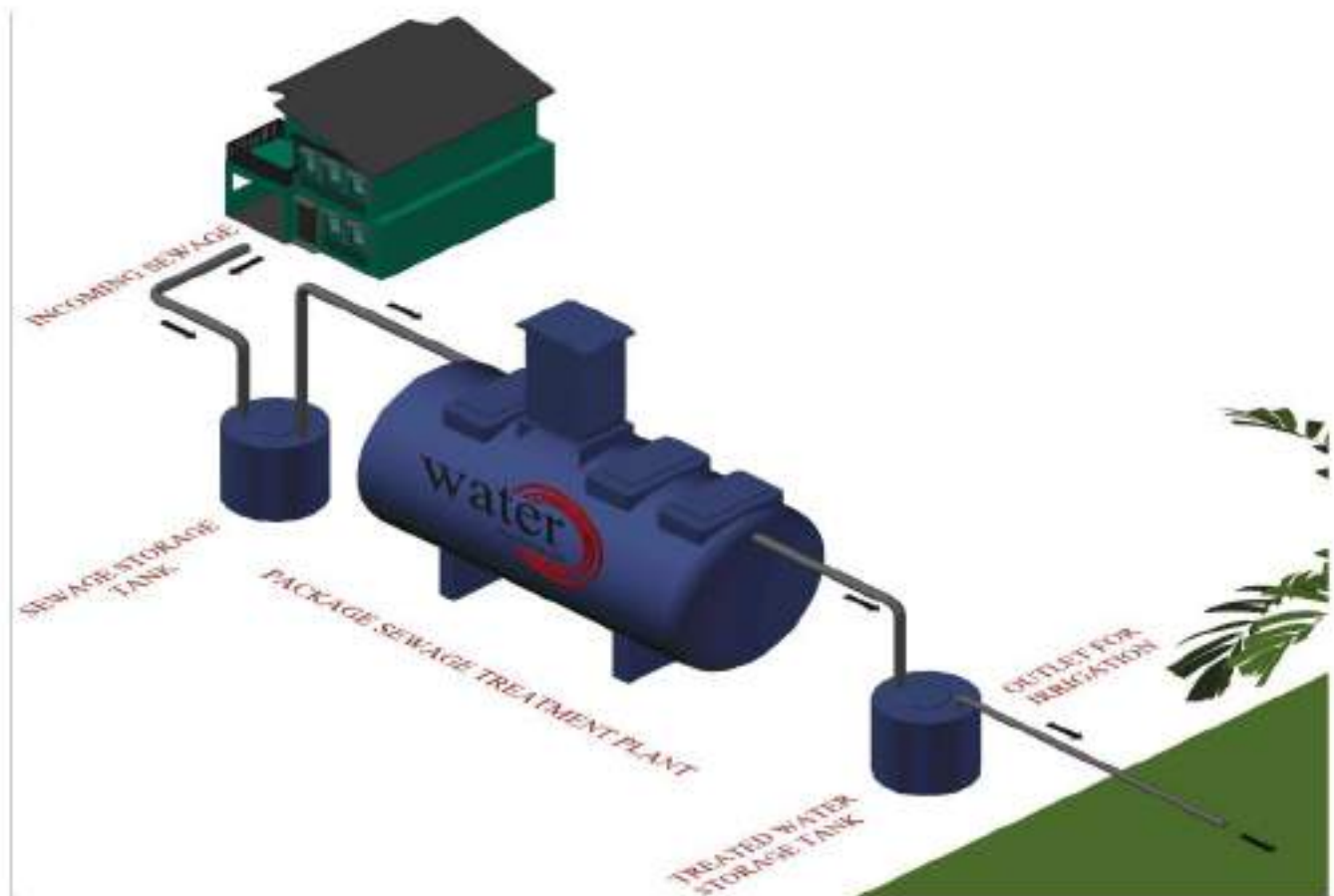
## Details of the systems

Model	Effective volume m <sup>3</sup>				Total volume m <sup>3</sup>	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



### Contact

#### Middle East Office

P.O Box - 8872

Works Q4 -115

SAIF Zone - Sharjah - U.A.E

Ph : +971 6 5529840

Fax : +971 6 5529841

E-Mail : [info@waterengrs.com](mailto:info@waterengrs.com)

Web : [www.waterengrs.com](http://www.waterengrs.com)

5m3/day Package MBBR plant



An ISO 9001: 2008 Company

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DAMMAM

RIYADH

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Sustainable Water Solutions

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