

In order to achieve sewage discharge standard or for reuse purpose, sewage treatment is widely used in building wastewater treatment, agriculture, transportation, energy, petrochemical, environmental protection, urban landscape, medical, food and other fields.

Applications

Municipal wastewater treatment

Industrial Wastewater Treatment

- Printing and dyeing wastewater treatment
- Electroplating wastewater treatment
- Paper production wastewater treatment
- Tannery wastewater treatment
- Oily wastewater treatment

Other wastewater treatment

- Food wastewater treatment
- Slaughter wastewater treatment
- Medical Wastewater treatment

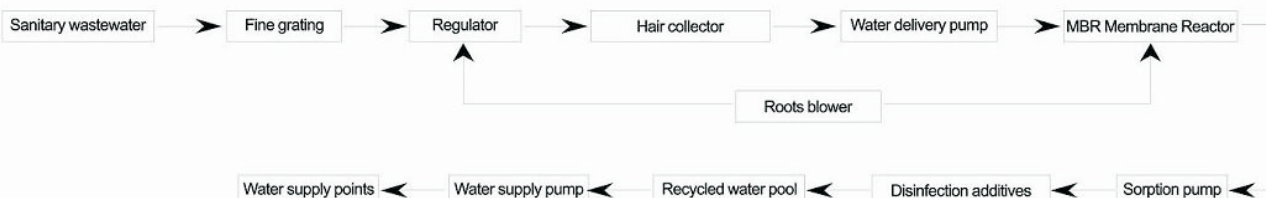
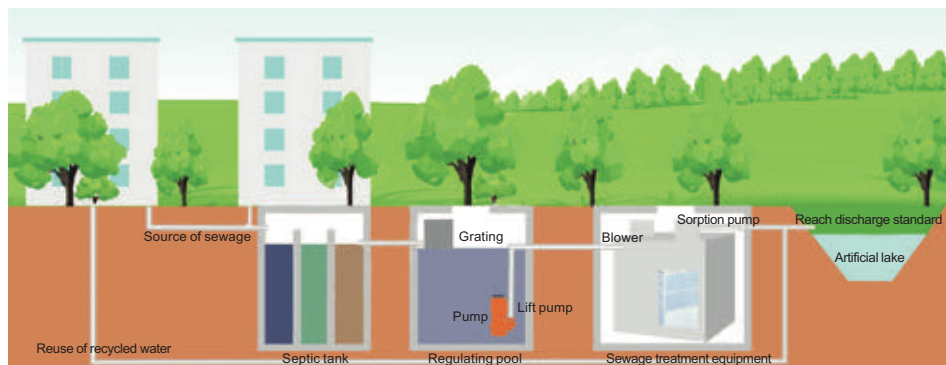
Integrated wastewater treatment

Landscape circulating water

Reuse of recycled water



Domestic Sewage Treatment



Pure and Waste Water Treatment Equipment

SHAANXI APS MACHINERY EQUIPMENT CO., LIMITED

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Integral Sewage Treatment Systems

IS

SERIES

To achieve sewage discharge standard or for reuse purpose.



- The device can be buried below the earth's surface. The surface can be used as greenland or square land. Therefore, the device covers no surface area. And there is no need for plant construction, neither heating and heat preservation.
- The device use plug flow biological contact oxidation pond, the effect is better. Besides, it is smaller than active sludge pool. The applicability to the water is stronger, impact resistance performance is good, discharging water is stable, there is no sludge expansion. In addition, the new elastomeric stereoscopic materials in the oxidation pond have a higher removing rate, and also can improve the water solubility of oxygen.
- Because of the low volume load of fillings in AO bio-treatment technology of the device, and microbes are in the stage of oxygen, it would produce less mud.
- Except for the conventional air exhaust, the device is equipped with soil deodorization measure as well.
- The device is equipped with fully automatic electric control system and equipment damage alarm system. The device has a good reliability, generally, there is no need for special management.

Application

- Hotel, restaurant, sanatorium, hospital, school;
- Residence community, villa district, village, town;
- Station, airport, seaport and dock;
- Factory, mine, army, beauty spot;
- All kinds of industrial sewage similar to the living sewage, etc.



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Municipal Wastewater Treatment

APS Water supports growing urbanization by integrating wastewater services into the water cycle of each city.

Appropriate solutions

- APS Water manages facilities able to treat increasingly complex effluents in accordance with ever more stringent discharge standards.
- We design, build and operate the wastewater treatment networks and systems of major cities, build and maintain their pipe networks.
- In rural areas where the service territory is too small or hard to reach, we offer small wastewater installations as an alternative to bigger installations.



Advantage

- Eliminates hydrogen sulfide gas, and its accompanying odors, and health hazards.
- Converts suspended particles and accumulated waste and soluble organics in the sludge to carbon dioxide, nitrogen and oxygen gases, water and sulfates.
- Breaks down proteins, starches, fats and food-based oils, xylans and cellulose.
- Reduces TSS, COD and BOD.
- Reduces nitrate and ammonia efficiently.
- Eliminates inhibitory effects of hydrogen sulfide (H₂S) on nitrification.
- Can utilize a wide range of carbon sources.
- Produces less sludge than alternative methods.
- Non-toxic, non-corrosive. Safer to handle than chemical oxidizers.
- Environmentally friendly, all-natural process



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MB Reactor, is a new sewage treatment technology by combines of membrane technology and biochemical reactions technology, is one of the most promising wastewater treatment technology nowadays. Membrane bioreactor reactor (MBR) filter and separate mud and water by biochemical reaction. On one hand, It intercept microbial in reaction pool, increase sludge concentration in the pool, so that speed us the degradation of effluent biochemical reactions more thoroughly. On the other hand, due to the high filtration precision of the film, the output water will be clear.

Inlet and outlet water quality

Item	Raw water quality	Treated water	National standard 1 class (GB 18918-2002) (1 class, standard B)
BOD5 (mg/L)	150 ~ 250	< 20	20
CODcr (mg/L)	200 ~ 400	< 60	60
SS (mg/L)	150 ~ 250	< 20	20
NH3-N (mg/L)	10 ~ 35	< 15	15
pH		6 ~ 9	

MBR Technical Characteristics

The concentration of microorganisms can increase 2-3 times, the MLSS can reach 8000-12000mg/l, biochemical efficiency is greatly improved. Separately control hydraulic retention time (HRT) and sludge retention time (SRT), short HRT and long the SRT, is conducive to the decomposition of refractory material eliminates the need for the secondary settling tank sludge discharge cycle, easy to operate controlled special curtain film.



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Waste Water Treatment Spare Parts

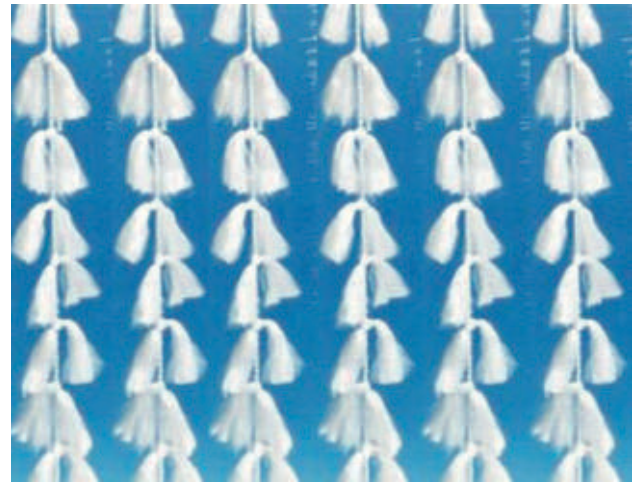
Grating Parts

- Rabble blade: Stainless steel, nylon, ABS, pitch 100-150mm.
- Link chain: Stainless steel, center distance 100mm-150mm.
- Small collar: Stainless steel, ring-shield. Φ 16, Φ 18, Φ 25.
- Big collar: Stainless steel, nylon.



Soft Packing

- Soft packing adopts fiber linkage and plastic wafer of fiber silk, and composed of a certain length of multiple fibers, the fiber silk stretch width-ways in the water, with the characteristic of uniform distribution, easily skin formation and large surface area.
- It is widely apply to aerobic treatment of industrial effluent, sanitary sewage and high concentrations of anaerobic treatment from dye printing, oil refining, wool spinning, silk cloth, petroleum chemical field, etc.



Diaphragm Type Aerator

- Diaphragm type aerator is newest aeration device, the aeration device small air bubble diameter, gas liquid interface small diameter, area is large, the gas and liquid bubble spread evenly, won't produce hole plugging, corrosion resistance is strong.
- Especially suitable for the urban sewage and large plant expansion and new and old aeration tank, and the aeration tank can be intermittent operation.



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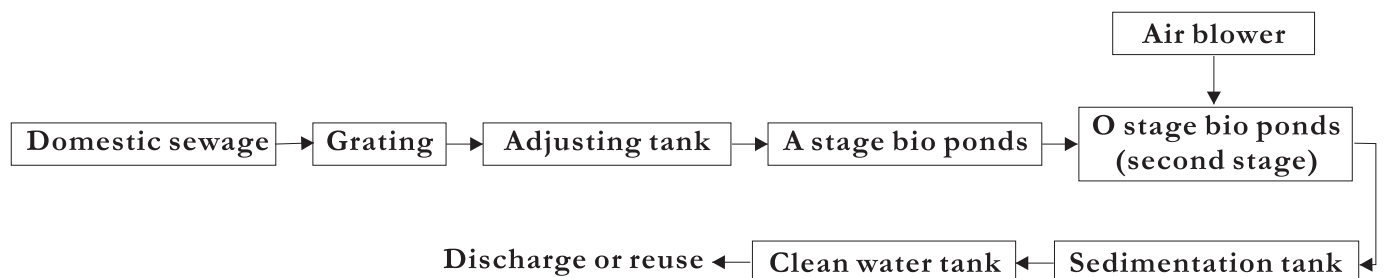
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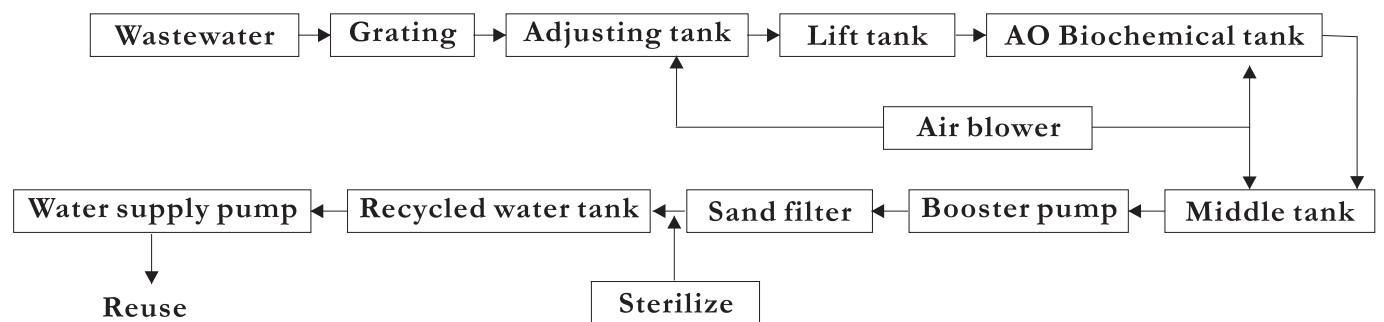
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Process Flow Diagram

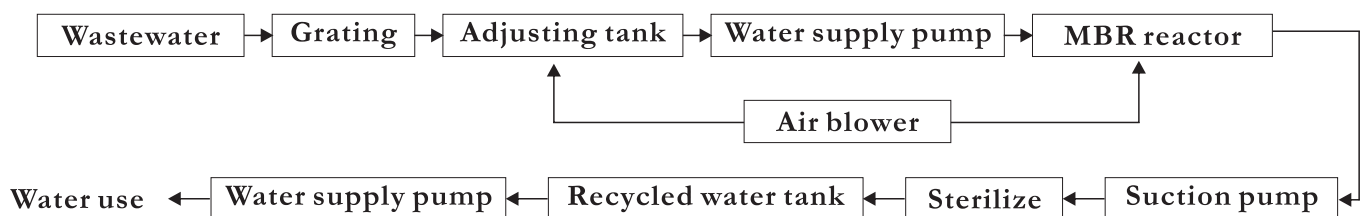
Domestic Swage Typical Process Flow Diagram



AO Biochemical Process Flow Diagram



MBR membrane Process Flow Diagram



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