ASBR - Advanced Sequencing Batch Reactor

The #1 choice for high quality effluent at low capital investment and operating costs using state-of-the-art advanced sequencing batch reactor technology. ASBR has a proven record of performance worldwide.

ASBR is the optimum biological process solution for most wastewater treatment problems in domestic, municipal, and industrial plants. The system has been successfully used for small and medium scale applications, as well as for large scale municipalities. **ASBR** is also applicable for use in the modular expansion, retrofit, or upgrading of existing facilities and the pre-treatment of high strength industrial wastes.

Domestic and Municipal wastewater applications:

- Rural communities, towns and cities
- Airports and military installations
- Housing and commercial developments
- Schools, hospitals and shopping malls
- Septic tank wastewater treatment
- Resorts, motels and trailer parks
- Highway rest areas and recreational facilities
- Apartments and condominiums

Industrial wastewater applications:

ASBR can be used for a wide variety of applications where the wastewater is biologically degradable including:

- Food, beverage and confectionery
- Paper, board and textile
- Wineries
- Petro-chemical, refinery and paint
- Anaerobically pre-treated effluents
- Electronics and manufacturing
- Pharmaceutical, perfume and personal care

W-WWT.COM / AWT European Office
Water & Wastewater Treatment

AWT TECHNOLOGIES
BIOWORKS group

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ASBR process and design features:

- Bio-selection conditioning zone promotes the formation of floc (necessary for good separation of solids and liquids) whilst inhibiting undesirable filamentous bulking (associated with settling issues) to produce a clear, high quality effluent.
- Biological Nutrient Removal (BNR) including nitrification, denitrification and biological phosphorus removal
- Fewer tanks and up to 30% less footprint than conventional activated sludge treatment systems
- Highly efficiency aeration minimizes power consumption
- Minimal equipment makes maintenance easy and operation simple
- Robust stainless steel effluent decanter ensures long service life and reliability
- Rectangular, square or circular, and single or multiple basins give operational flexibility
- From 5,000 gpd to 50+ MGD (20 – 190,000 m^3/d).

Following completion of the wastewater treatment plant, an ongoing after-sales service is provided through evaluation and analysis of plant data to ensure that the plant is operating at its optimum performance capability. In addition, accessing the process control system and SCADA through a web link enables us to provide the client with a remote online monitoring service.

W-WWT / AWT Technologies Inc. provides:

- Consulting services on SBR processes and equipment
- Conceptual, preliminary and detailed process engineering design
- Equipment fabrication and supply
- Project management services during construction
- Assistance in commissioning and start-up
- Training for plant operators and owners
- After sales service and customer support
- Operation and maintenance services
- Process optimization
- Remote monitoring and analysis
- Performance evaluations

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