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WASTEWATER TREATMENT SYSTEMS

Sequencing Bath Reactor (SBR)




PRISMATIC SYSTEM


CYLINDRICAL SYSTEM


CYLINDRICAL SYSTEM

WASTEWATER TREATMENT SYSTEMS STANDARD FEATURES

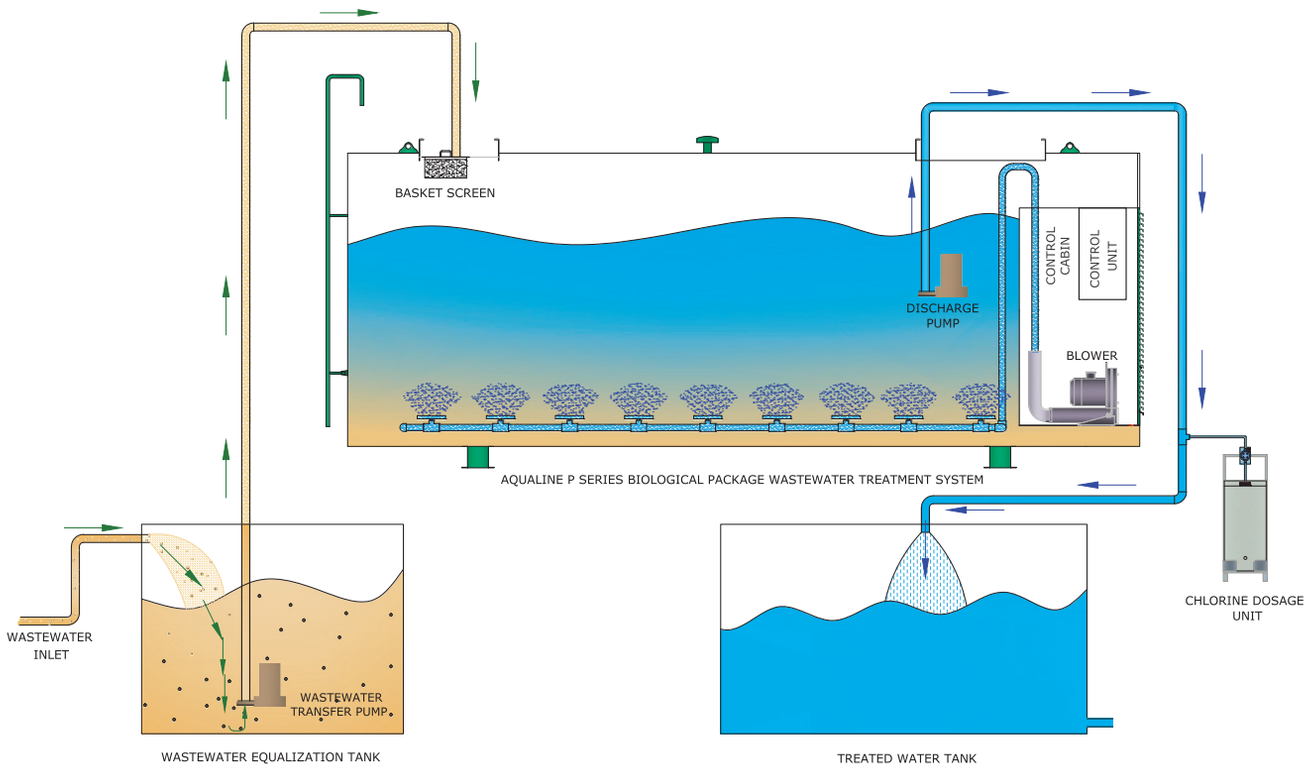
Sequencing batch reactor (SBR) is a system which works with activated sludge principle and where aeration and sedimentation processes are occurred in the same tank as distinct from continuous systems.

Wastewater is fed to reactor tank, purified and discharged. SBR systems consist of 5 steps; 1-filling, 2- aeration, 3- sedimentation, 4-discharge, 5- discharge of excessive sludge (if needed). SBR systems function as a balance tank and comply with fluctuating pollution load and quantity of raw water. It occupies less area than classic continuous systems. If necessary, duration and application frequency of 5 steps mentioned above can easily be set for removal of nitrogen and phosphorus. This system does not require a secondary settling sedimentation tank, which classic systems require, since sedimentation is carried out in the same tank. Therefore, it is economic. A reactor can be produced not only as modular type but also from reinforced concrete and so it can be applied in all required capacities.

- A SBR unit includes;
    1. reactor,
    2. basket filter,
    3. blower,
    4. chlorine dosage pump,
    5. submersible wastewater lift pump,
    6. submersible discharge pump and air diffusers.
- Reactor body is made from epoxy coated ST-37 carbon steel substance and it can be in a prismatic or cylindrical shape. Production can be made for special applications and the used substance or geometry of reactor can be variable.
- Control system is controlled by smart relay in standard ones; however, control systems with PLC- touch operator panel can also be made optionally. Special price should be demanded for remote control- SCADA.

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MODEL	EQUIVALENT PEOPLE	FLOWRATE (m^3/day	CYLINDRICAL SYSTEM MEASURES			PRISMATIC SYSTEM MEASURES		
			DIAMETER (mm)	HEIGHT (mm)	EMPTHY WEIGHT (kg)	WIDTH (mm)	LENGTH (mm)	HEIGHT (mm)
AQUALINE SBR 25	25	5	Ø 1800	3000	1200	2150	1500	2200
AQUALINE SBR 50	50	10	Ø 2300	3000	1500	2150	2000	2200
AQUALINE SBR 100	100	20	Ø 2800	3000	2000	2150	3500	2200
AQUALINE SBR 150	150	30	Ø 2800	4500	3100	2150	3500	2700
AQUALINE SBR 200	200	40	Ø 2800	6000	3300	2150	4000	2700
AQUALINE SBR 300	300	60	Ø 2800	7500	3900	2150	5750	2700
AQUALINE SBR 400	400	80	Ø 2800	9000	4500	2150	7250	2700
AQUALINE SBR 500	500	100	Ø 2800	10500	5100	2150	9500	2700
AQUALINE SBR 600	600	120	Ø 2800	12000	5600	2150	10750	2700
AQUALINE SBR 700	700	140	Ø 2800	13500	6200	2150	10000	3000
AQUALINE SBR 800	800	160	Ø 2800	13500	6200	2150	11250	3000
AQUALINE SBR 1000	1000	200	Ø 2800	13500	6200	2150	13500	3000