



## 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 settlink 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.





| MODEL             | EQUIVALENT PEOPLE | FLOWRATE (m <sup>3</sup> /day) | CYLINDRICAL SYSTEM MEASURES |             |                   | PRISMATIC SYSTEM MEASURES |             |             |
|-------------------|-------------------|--------------------------------|-----------------------------|-------------|-------------------|---------------------------|-------------|-------------|
|                   |                   |                                | DIAMETER (mm)               | HEIGHT (mm) | EMPTY WEIGHT (kg) | WIDTH (mm)                | LENGTH (mm) | HEIGHT (mm) |
| AQUALINE SBR 25   | 25                | 5                              | Ø 1800                      | 3000        | 1200              | 1500                      | 2000        | 2200        |
| AQUALINE SBR 50   | 50                | 10                             | Ø 2300                      | 3000        | 1500              | 2000                      | 2500        | 2300        |
| AQUALINE SBR 100  | 100               | 20                             | Ø 2800                      | 3000        | 2000              | 2000                      | 4000        | 2300        |
| AQUALINE SBR 150  | 150               | 30                             | Ø 2800                      | 4500        | 3100              | 2000                      | 5000        | 2300        |
| AQUALINE SBR 200  | 200               | 40                             | Ø 2800                      | 6000        | 3300              | 2200                      | 6000        | 2300        |
| AQUALINE SBR 300  | 300               | 60                             | Ø 2800                      | 7500        | 3900              | 2200                      | 8000        | 2700        |
| AQUALINE SBR 400  | 400               | 80                             | Ø 2800                      | 9000        | 4500              | 2200                      | 9000        | 2700        |
| AQUALINE SBR 500  | 500               | 100                            | Ø 2800                      | 10500       | 5100              | 2200                      | 10000       | 2700        |
| AQUALINE SBR 600  | 600               | 120                            | Ø 2800                      | 12000       | 5600              | 2200                      | 10500       | 2700        |
| AQUALINE SBR 700  | 700               | 140                            | Ø 2800                      | 13500       | 6200              | 2200                      | 11000       | 2700        |
| AQUALINE SBR 800  | 800               | 160                            | Ø 2800                      | 13500       | 6200              | 2200                      | 11500       | 2700        |
| AQUALINE SBR 1000 | 1000              | 200                            | Ø 2800                      | 13500       | 6200              | 2200                      | 11700       | 2700        |

