



# eSBR

Intelligent Sewage Treatment

## The Next Generation Sewage Treatment System

### Intelligent SBR Technology for Apartment & Industry

#### DESIGNED

to suit the need of small to mid sized apartments upto 200 KLD

#### WATER

after the treatment process can be used for gardening & flushing

#### REDUCED

power consumption as it operates for 13 hours

- No minimal load required for operation
- Requires minimal maintenance and is fully automated
- No foul smell emanating from the system
- Control unit box is small and compact
- Sludge can be removed only once in 8 - 12 months



No mechanical and electrical parts in the wastewater



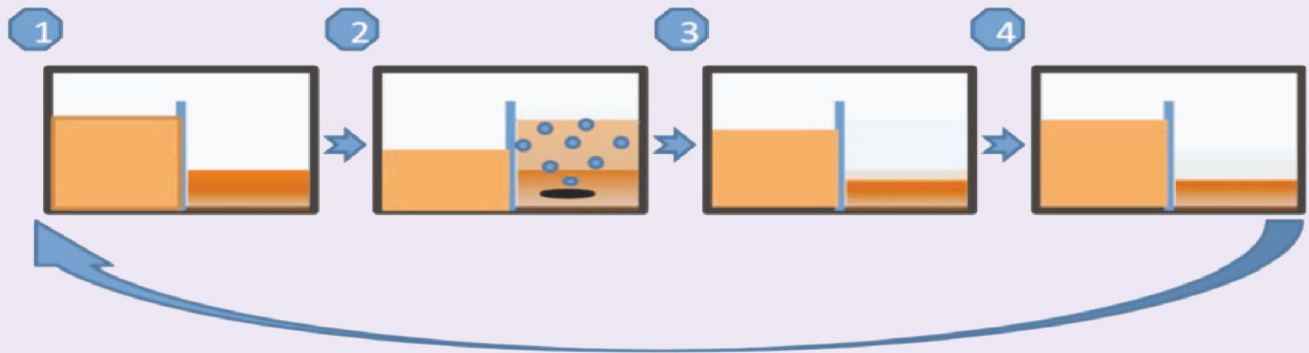
No pumps in the wastewater



Long life time product with nearly no additional costs



# Process Flow Chart



## 1 Charging Phase

The wastewater is initially fed into the sludge tank (1st chamber) where solid constituents are removed. From here, the wastewater is then gradually led into the SBR tank (2nd chamber).

## 2 Aeration Phase

The SBR tank is where the actual biological treatment process takes place. Here, short aeration and rest phases alternate with one another within the scope of a controlled cleaning process. This means that the so-called activated sludge with its millions of micro-organisms can develop and treat the water thoroughly.

## 3 Rest Phase

During the 90-minute rest phase, the activated sludge then settles on the bottom of the tank. A clear water zone forms in the upper part of the SBR tank.

## 4 Clearwater Extraction

The separated clear water is then led from the SBR tank to the receiving water (stream, river or lake) or into a percolation system. Afterwards, the sludge is returned to the first chamber from the SBR tank and the process starts again from the beginning.

