

## Industrial Water Treatment

### Biofilm Filter "BCF (Bio Contact Filter)"

Bio Contact Filter feeds wastewater to the filtration tank with air to increase aerobic microorganism which forms biofilm over the surface of filter, and this biofilm dissolves and removes organic substances contained in the wastewater. At the same time, suspended solids are filtered.

In comparison with the conventional activated sludge method, the power cost can be reduced and complicated sludge management is not necessary because there is no return sludge and bulking.

#### Features

- Low operation and maintenance cost

Since filler medium granules, air, and wastewater (i.e., gas, solid, and liquid) are in contact with each other within a countercurrent, much more oxygen is dissolved in water for high filtration efficiency.

Necessary power is greatly reduced in comparison with normal activated sludge method.

- Easy maintenance and management

Dissimilar to the activated sludge method, the power cost can be reduced and complicated sludge management is not necessary because there is no return sludge and bulking.

Full-automatic washing feature is provided as standard, making maintenance and management very easy.

- Saves space

Area ratio (surface area of medium/filling capacity) of the filling medium granule is high and much more microorganism can attach to the granules, as well as oxygen use efficiency is high, high-load operation is possible and the tank size can be reduced.

It also provides the filtration function to eliminate the sedimentation tank for smaller installation area.

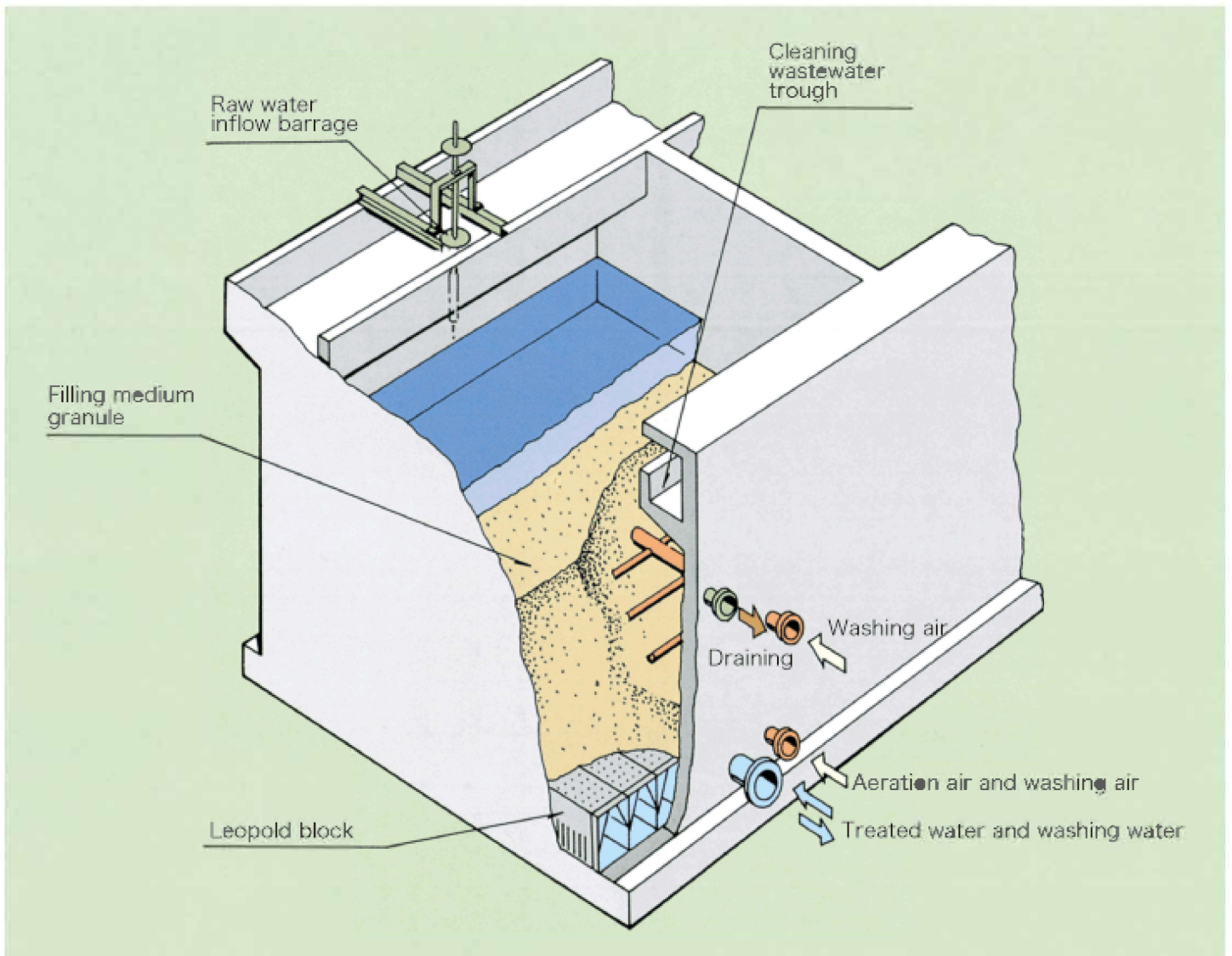
- Stable treated water quality

Area ratio (surface area of medium/filling capacity) of the filling medium granule is high and much more microorganism can attach to the granules. As the result, it shows high stability against load variation and reserves wider BOD capacity load, for constantly high treated water quality.

- Less wash water

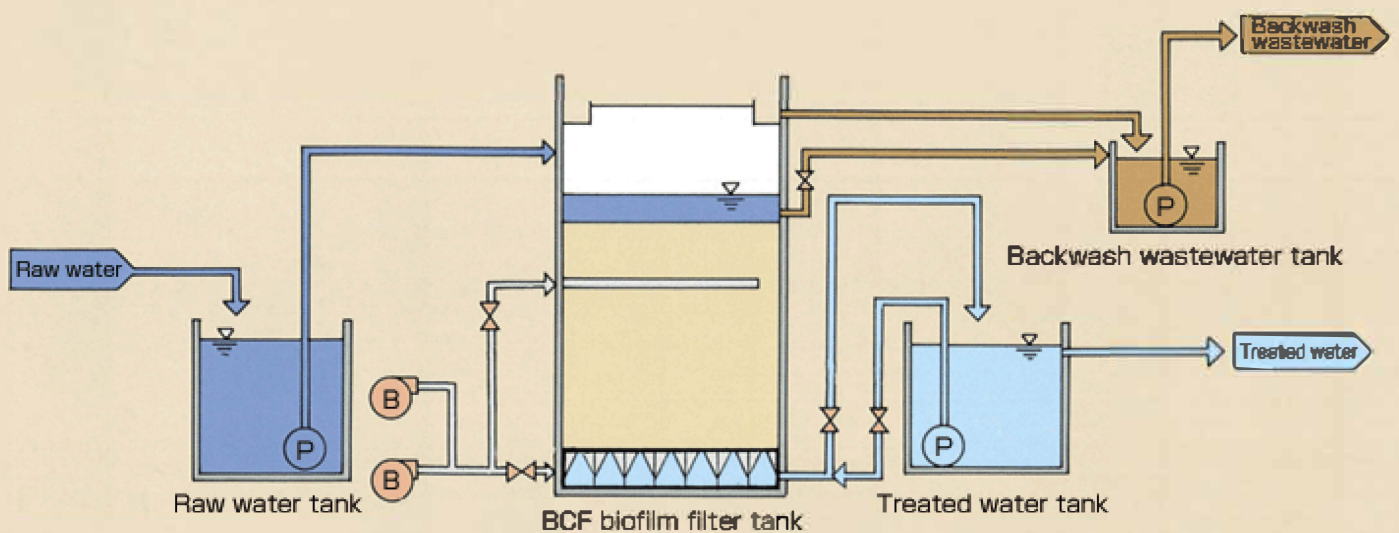
By the efficient washing method including wash from the middle part, water required for washing can be significantly reduced.

#### Structural diagram



## BCF treatment flow

2-staged aeration cleaning type



## Application

- Organic wastewater
- Pre-treatment of high-concentration wastewater

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