

Nutrients Removal System Using Microorganism Immobilization Carriers (Bio-tube System)

Technology Overview

- Immobilization carriers supplied to a reactor hold highly concentrated nitrifier.
- Enables nutrients removal in the same retention time as CASP

Characteristics of carriers

- High retention capacity: Bio-tube can hold a large amount of microorganism (nitrifier)
- High durability: In some WWTPs, bio-tube run for over 10 years without reloading.
- High dispersibility: Bio-tube can disperse inside a reactor evenly.
- Easy storage

Scope of Application

- Applicable treatment process: ①Carrier added A₂O Process, ②Carrier added modified Ludzack-Ettinger process
- Applicable water temperature: Over 15°C

Benefits

- For retrofit: No reactor expansion is required for the application of high-performance nutrients removal
- For new construction: Space-saving reactor

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