

Jarikko Purification System free from sludge

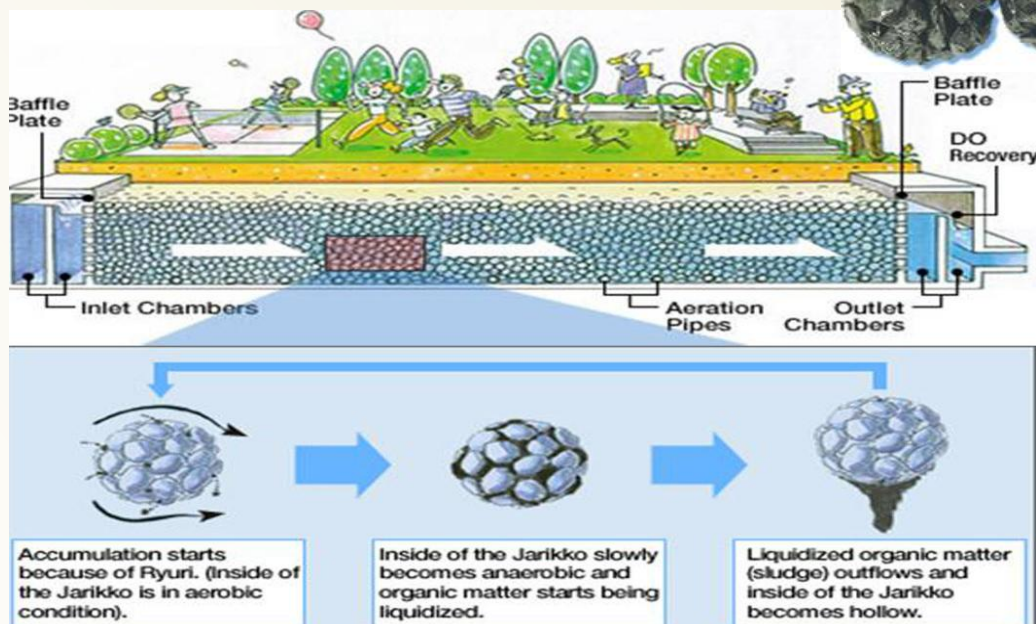
- Jarikko Purification System decomposes all organic pollutants without producing sludge.

Features

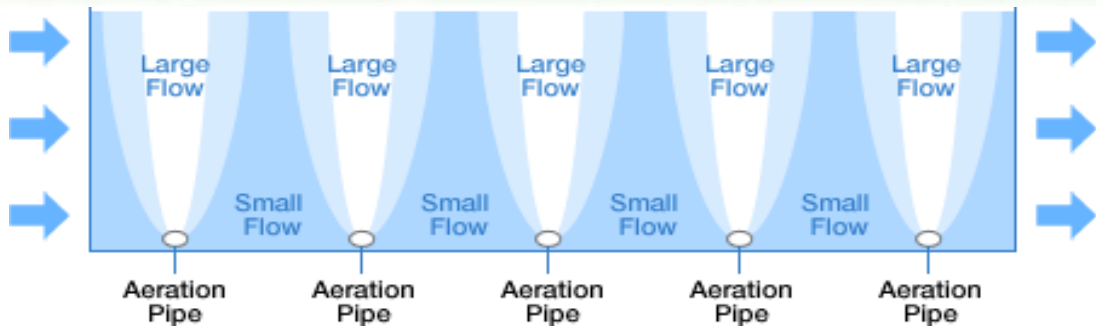
- Jarikko purifies river water, sewage and industrial wastewater. All organic matter is decomposed and no sludge is produced.
- The construction costs get off with 70-90% of the conventional Activated Sludge Method and do not need treatment and disposal of sludge. Unmanned operation is possible, and maintenance expense becomes one tenth of before and can largely reduce cost.

Overview (Technical principles, actions, etc.)

A Jarikko is made of gravel, measuring 20-30mm in length, put together into a globe which is 10cm in diameter. The tank is filled with Jarikko then water is flushed through. Pipes are laid at the bottom to let out the air. Facility is laid under ground to utilize top as park, parking lot etc.

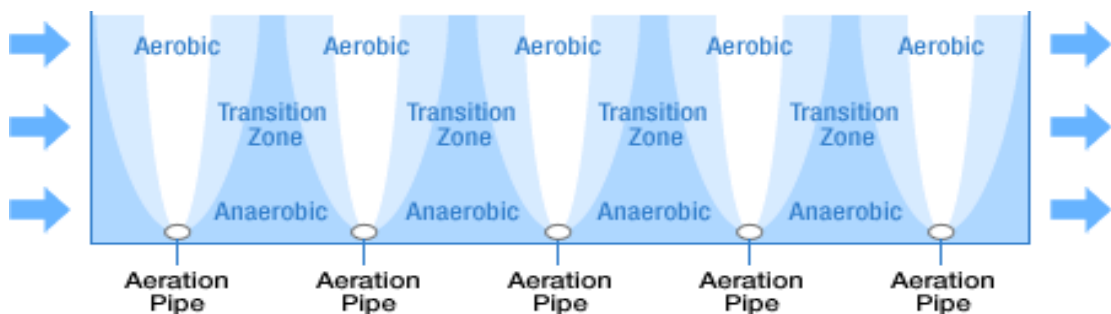


Solid organic matter in the wastewater accumulates inside of a Jarikko. Therefore, the water (liquid) of the wastewater outflows by the hour and the solid organic matter (solids) of the wastewater is held inside of the Jarikko at first and then outflows in 10 to 30 days.



(Environment Differentiation)

The flow above and between aeration pipes is differentiated into a small and a large flow. Moreover, the surface and the inside of the Jarikko have a different flow, therefore, many different environment can be created.



(Aerobic/Anaerobic Activation)

When the wastewater which consumes large amount of oxygen passes through a Jarikko tank, it supplies oxygen at large flow environment and consumes oxygen at small flow environment. As a result, aerobic and anaerobic conditions start happening. Reduced decomposition of BOD & SS also starts happening, and at the same time, nitrification and denitrification start happening.

Introductory Track Record

Mr. Shunji Eto of Aquatech Co., Ltd. established “Contact Gravel oxidation method” in 1981 for river purification entrusted by Ministry of Construction. Then the system is sophisticated and improved efficiently to establish “Decomposition of Solid organic matter by Jarikko” which has patent in Japan, USA, EU, China, Korea, Taiwan, Canada.

In Japan 28 sites for river purification and 10 factories for industrial wastewater have been operating at present.



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