

The Earth-Friendly Portable Toilet

WHAT IS OUR NEW TECHNOLOGY?

The BioMikalet® is a portable toilet with a microbial processing system that decomposes human waste into water and carbon dioxide, which means — as even toilet paper is broken down — that there's no need to collect waste.



The microbial processing system contains Japanese cedar chips, into which the human waste and paper are mixed. The cedar chips absorb excess water and maintain the proper humidity for the processing system. The mixture is stirred, ventilated, and warmed to accelerate aerobic fermentation. Normally, decomposition is completed in about 24 hours.

The BioMikalet® is ready to use immediately — just connect it to electricity and water. There are no difficult installation procedures, no chemicals, and no need to add microbes. The only processing agents are the cedar chips. The BioMikalet® can be used 50 times a day, and the cedar chips last for three years.

In the U.S. market, the BioMikalet® would be ideal for local governments to use in parks or recreational and rest areas. The BioMikalet® would also be a great solution for companies that specialize in renting equipment for disaster relief efforts — after fires, earthquakes or storms.

WHAT SETS US APART?

Water flush: The BioMikalet® has a dual-layered structure. The upper layer vessel is filled with Japanese cedar chips and filters solid waste. The excess water that the cedar chips cannot absorb drops

into the lower vessel. Though a water flush system can be installed, it doesn't actually need to be flushed. Therefore, the BioMikalet® can be used even in places where water is not available.

Economy: Human waste doesn't need to be collected from the BioMikalet® because the cedar chips break it down in about a day. Additionally, the cedar chips last for three years, making the BioMikalet® almost maintenance-free and economical throughout the lifetime of the product.

Odor control: Our original oxidization equipment controls odors, so the BioMikalet® does not emit offensive smells.

Ready to use: No installation procedure necessary. Just place the BioMikalet® where you want it, and connect it to electricity and water.

WILL IT SELL?

The BioMikalet® was launched in Japan in 2005. Fifty units have been sold over the last three years. Most of them are used in parks, construction sites, factories and riversides. As waste collection is not necessary, the BioMikalet® can be situated in locations difficult to access for maintenance, such as on the top of mountains.

The BioMikalet® is the only bio-toilet that features a water flush. Many bio-toilets lack a water flush as too much water negatively affects their fermentation processes. However, the unique dual-layered structure of the BioMikalet® removes excess water and keeps the aerobic fermentation working properly.

Although the BioMikalet® performs highly in bio-processing, it's not much bigger than other portable toilets, and it has almost the same capacity as other similar sized portable toilets as well.

The BioMikalet®: same size, same capacity, less maintenance and a water flush.



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