

Future Eco-Friendly Toilet Unit Thanks To Biotechnology

SMD BIO TOILET

The "BIO TOILET" is a toilet that suppresses the stink of excrement and decomposes this through the use of microorganisms. Since it always keeps the treatment, excrement will not be accumulated and the burden of such subsequent treatment as pumping up will be lightened. Therefore, it is also attracting attention as a natural-circulation toilet that also gives consideration to the natural environment.

Biochips with Surprising Effects!!

Being a stationary unit, it is available just by being powered.

Sanitary

Fuss-Free

Less Stink

No Need for Pumping Up

Low Running Cost



This is a toilet that protects forest and does not soil the sea or rivers.

The BIO TOILET, which needs no feed-water/drainage facilities, can be installed in the following places.

Mountain area: It can be installed in a hut or a place where construction of feed-water/drainage facilities is difficult.

Public facility: It can also be used as an emergency toilet in the event of disaster.

Construction site: It can be installed as a temporary toilet on a construction site.

Event site: It can be installed as a temporary toilet on an event or a festival site.

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Environmental Technology Verification
Ministry of the Environment
Performance No.030-1002

環境技術
実証事業
ETV 環境省
実施番号 030-1002

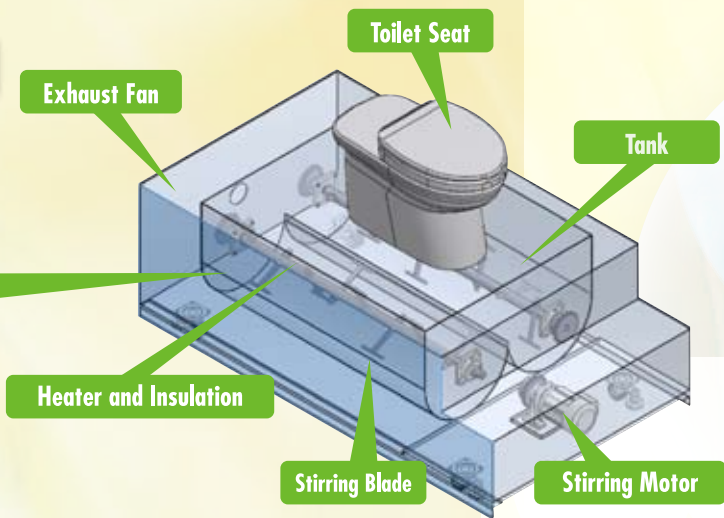
SMD BIO TOILET

Features of BIO TOILET

1. There is no need for drainage or pumping up because it decomposes excrement and reduces the volume through the use of microorganisms.
2. It is always clean because excrement is decomposed in a short time.
3. Smells are not offensive because it suppresses the stink of excrement through the use of microorganisms.
4. With a power supply, it can be installed anywhere! No troublesome electrical work is required.
5. No water is required.
6. Toilet paper can also be dumped! (No tissues can be dumped.)
7. It is an eco-friendly toilet causing no secondary problems because there is no need for drainage or pumping up.



Structure of TOILET



Mechanism of TOILET



About Biochips

Referential Photo 1



Biochips (Bacteria Bed)

Referential Photo 2



ST-1 (Soil Bacterium Group)

- 1** The wood chips used for biochips are **mainly made of cedar**. The shredded wood chips will be sifted to ensure a uniform size, and undergo many stages of processing on the basis of our know-how. We also sterilize unwanted bacteria. (Referential Photo 1: Biochips)
- 2** The microorganisms contained in the biochips are a useful **soil bacterium group** that occurs naturally. Those that are effective are cultivated. (Referential Photo 2: ST-1)
- 3** We think that the environment of our biochips is most suitable for the ST-1 and that smells are removed more effectively by a combination of wood chips and activated carbon, including the microorganisms contained in the biochips.
Biochips = Wood chips + Soil bacterium group (They need proper mixing!)
- 4** **About 60% of moisture content** in the biochips is suitable for the microorganisms while the BIO TOILET is operating. Please be aware that too much moisture causes smells and that continued dry conditions affect the activity of the microorganisms.
- 5** The biochips **need replacing** about once a year, depending on the frequency of use. (This depends on the frequency of use.)

Something
is different!!

Bio-chips

[using ST-1]

We'll send you a sample, please try it.

You can buy bio-chips (ST-1) alone.

Developer of BIO TOILET

The late Mr. Toshio Shimada (Mr. Microorganism): Profile

Mr. Shimada, who is called "Mr. Microorganism," had been researching microorganisms over 25 or more years until he passed away in October 2010.

These microorganisms are still playing an active part far away in China.

He had been struggling to improve sterile farmland and purify rivers and ponds by using the microorganisms, and introduce the BIO TOILET (about 500 or more units are already installed in China).

He was introduced by "Peaches, Toilets, and Japanese" of "MOVE 2005" produced by RKB MAINICHI BROADCASTING CORPORATION.

He was also awarded the 13th-rank honorary citizen prize and the science and technology grand prize in Changzhou, China.

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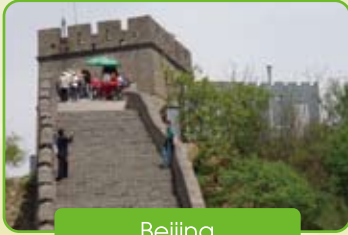
Ministry of the Environment

For this technology, the performance verification result by a third party is open to the public.

<http://www.env.go.jp/policy/etv/>

Natural-Area Toilet and Night Soil
Treatment Technology
Verification and Experiment
in 2010 (030-1002)

Installed more than 500 composting toilet using the same bio-chips in China.



Beijing



Huang Shan, World Heritage



Qingdao

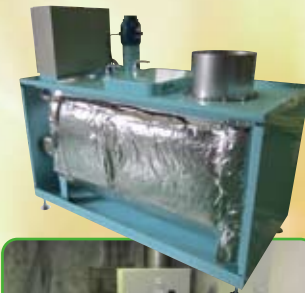


Nanjing Sun Yat-sen Memorial

Japan: Mt. Fukuchi (Kitakyushu national park) in Fukuoka



With solar panel



Yakushima island

Installed in the basement

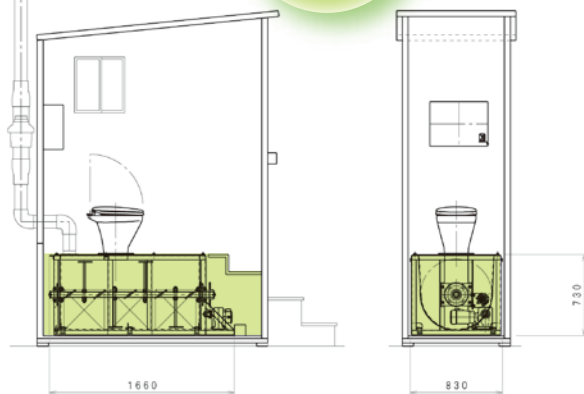


Hiroshima

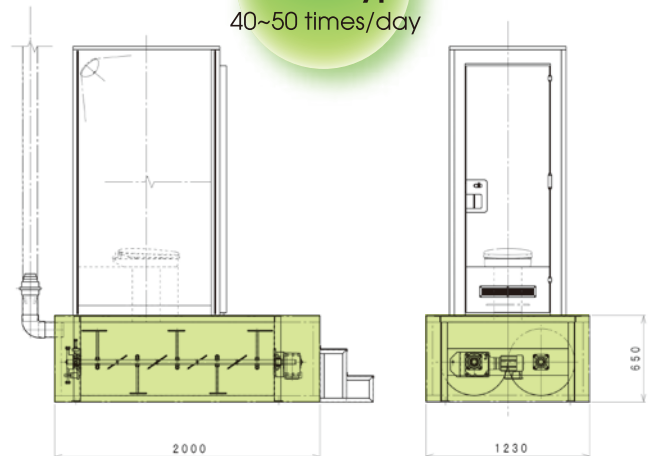
Installed in a park

[Outline Dimensional Drawing of BIO TOILET] (Rough Dimensions)

Tank
Single type
40~50 times/day



Tank
Double type
40~50 times/day



- (Remarks)
- The tank capacity can be changed according to the number of uses. (See above reference dimensions.)
 - 200 VAC/100 VDC 3-phase power supply available

●Manufacturer
Seller



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Safety Precautions

- Before use, please read the instruction manual carefully for proper use.
- Please avoid dumping those that cannot be treated.
- Please avoid dumping those whose amount cannot be treated.
- Please note that its specifications and appearance are subject to change without notice for product improvement.