

Mobile SIPHON TANK

Supply Drinking water
Purify Waste water
Mobile type
Easy Operation



This "MOBILE SIPHON TANK" applies to drinking water supply and wastewater treatment. This unit is designed compact size and unified each device together. So that it is easy to transport and to operate simply. Since this is a movable unit, it provides clean water anywhere and anytime. It is needed and set as a temporary type or setting type as well. Moreover, as self filter media cleaning system is installed inside of the tank, filter media is always kept clean, and therefore, it is achieved quality water supply and maintenance-free.

PRODUCT ADVANTAGE

Compact Design

Filter tank, Control panel, Piping, Chemical injection, Compressor, Indicators and Pump are all together and designed as a mobile type.

Cost Cut

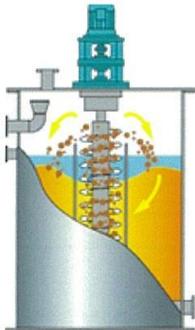
Reduce backwash water, electricity power and cut media replacement by SIPHON WASHING technology. Thereof, it can expect to save maintenance cost.

Environment Friendly

Due to the SAITO WASHING SYSTEM, used filter media is not necessary to dispose as an industrial waste, reuse and recycle it semi-permanently. Additionally, reduce backwash water and electricity power in the treatment process will help reduction of CO₂ emission and burden on environment.

SIPHON WASHING SYSTEM

We developed the self cleaning principle which is called "SIPHON WASHING SYSTEM" by our long term experiences and knowledge as a specialized filter media company. Since this system is installed into the filter tank, stubborn sludge attached filter media can be exfoliated and not generate a filter media fixation. This washing system works automatically during the backwashing process; also this unique system, filter media always kept clean, provides stable water and the filter media replacement is not necessary.



Inside the tank, filter media are washed by kneading action among the media particles which is generated by SIPHON SCREW. Due to the screw rotation, upward force pushes up water and media from the bottom and gravity generates downward force.

Principle of washing filter media

<p>A vortex flow is generated by the gravity of particles and the lift force created by the screw.</p>	<p>The filtration bed area is secured by the ribbon screw.</p>	<p>Particles running outward due to the centrifugal force generate a vortex flow.</p>

Apply anywhere, any conditions

MOBILE SIPHON TANK (MST) is a simple unit. Just transport and set it on site; therefore, you can treat filthy water and provide high quality water anywhere. This system will be the best solution for the water treatment problems. Due to the advantages of this unit, it is utilized especially for the water treatment of disaster recovery operation and construction site.



Setting MST on site

Disaster Recovery Operation

When the natural disaster occurs, water supply will be a big problem. Filtering raw water from river, lake and spring water by MOBILE SIPHON TANK is one of the solutions. We have operated at disaster areas and provide high quality water which is satisfied the Japanese water regulation.



Treated water by MST

Construction site

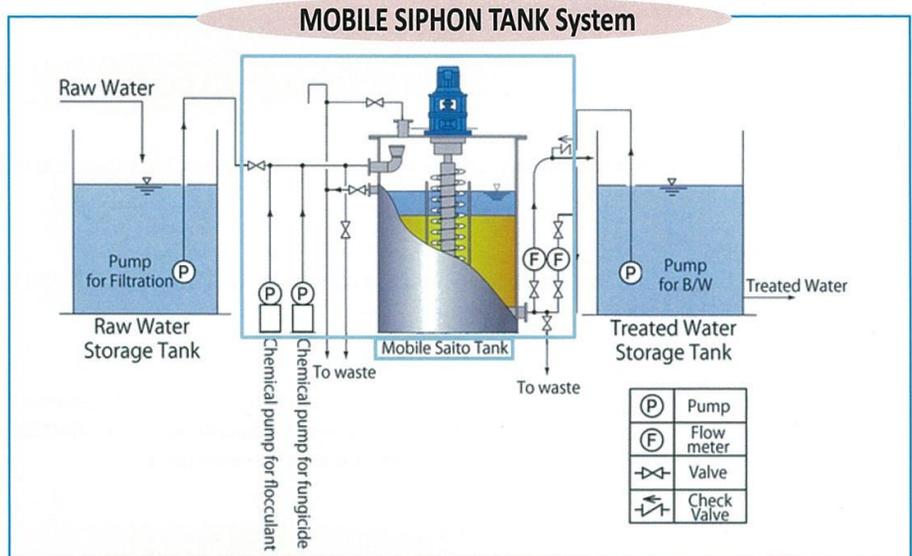
Wastewater treatment puts burden on filter media largely and it causes filter media replacement frequently. As MOBILE SIPHON TANK is compact design, it can be set and transport any construction site and maintain easily due to the unnecessary of filter media replacement by SIPHON WASHING SYSTEM.



Truck-Mounted type



Transporting by truck



MOBILE SIPHON TANK Specification

Type	Capacity (m ³ /h)	Tank diameter (mm)	Length (mm)	Width (mm)	Height (mm)
MST-700	3.8	Φ 700	2700	1500	2200
MST-1000	7.8	Φ1000	3100	1700	2200
MST-1200	11.3	Φ1200	3200	1800	2200
MST-1600	20.0	Φ1600	3600	2100	2500

Basic type (MOBILE SIPHON TANK unit)		Options	
Filter tank	Chemical pump	Filter media	Activated Carbon treatment systems
Cartridge	Control panel	Chemical pump	Membrane systems
Piping (HIVP)		Piping (SUS304)	Pre-filter systems
		Customize coloring	

*Specification are subject to change without notice.
*Contact us to get more details.

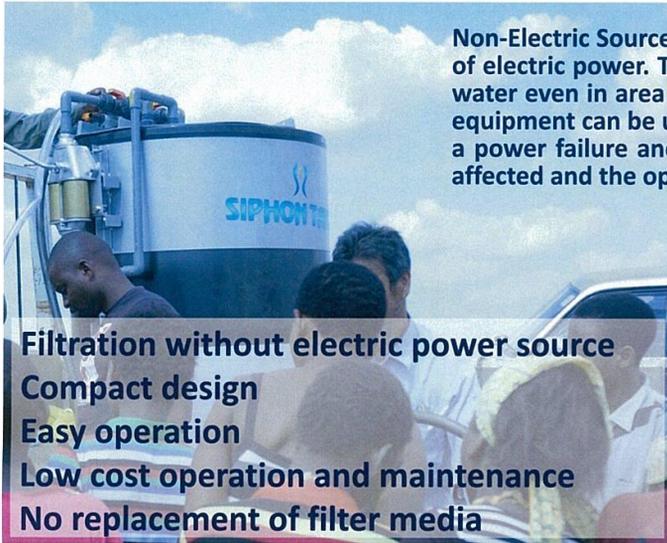
NIHON GENRYO Co., Ltd.

NKF Kawasaki Bldg, Higashida-cho, Kawasaki-ku,
Kawasaki-shi, Kanagawa 210-0005, JAPAN
TEL. +81-44-222-5555 FAX. +81-44-222-5556
e-mail: saitotank@genryo.co.jp
<http://www.genryo.co.jp>



NEW!!

Non-Electric SIPHON TANK



Non-Electric Source SIPHON TANK can operate without the use of electric power. This equipment will enable to access to safe water even in area where power is not supplied. And also this equipment can be used as a backup unit in emergencies during a power failure and when the water purification facilities are affected and the operation is stopped by the disaster.

- Filtration without electric power source**
- Compact design**
- Easy operation**
- Low cost operation and maintenance**
- No replacement of filter media**

Compact Filtration Device with Non-Electric Source for Emergency



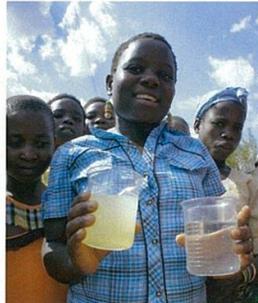
Water supply for Emergency



Water supply for Disaster



Water supply for Drinking water all over the world

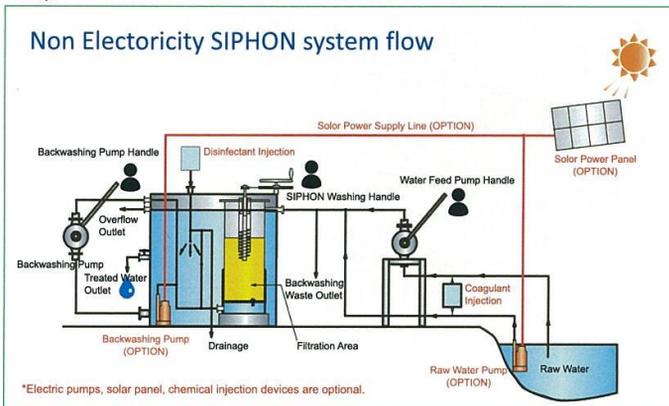


Non-Electric Source SIPHON TANK is developed for non electric supply area in the world. Of course, SIPHON WASHING function is built in it so that it is realized no replacement of filter media and easy operation. It can be moved anywhere water supply required. If emergency situation occurred it can be carried suffered area easily.

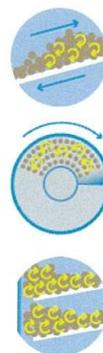


Non-Electric SIPHON TANK TypeS

Non Electricity SIPHON system flow



Original SIPHON washing technology



Our device is a dual structure of the inner and outer cylinder, and screw has been installed at the center of the inner cylinder. When the screw starts rotating, it makes a vertical turns of flow by gravity of particle and lifting force created by screw. The same time, sand moves to outside by horizontal turn by centrifugal force. The complicated vortex sand wash is like rice washing. There is no crush of sand particle because it is the same hardness. The washing technology is operated only 1 minute in a backwashing process of our products. This physical kneading action keeps filter media always clean and replacement of filter media is not necessary any more.

GENRYO WATER PLANet Project



We put a Pin at the place where needs safe water. Two pins make Line and three pins make Area. More pins make and expand Network in the world. It is our Water Pin Line Area Net.

Sustainable Sand Filtration System

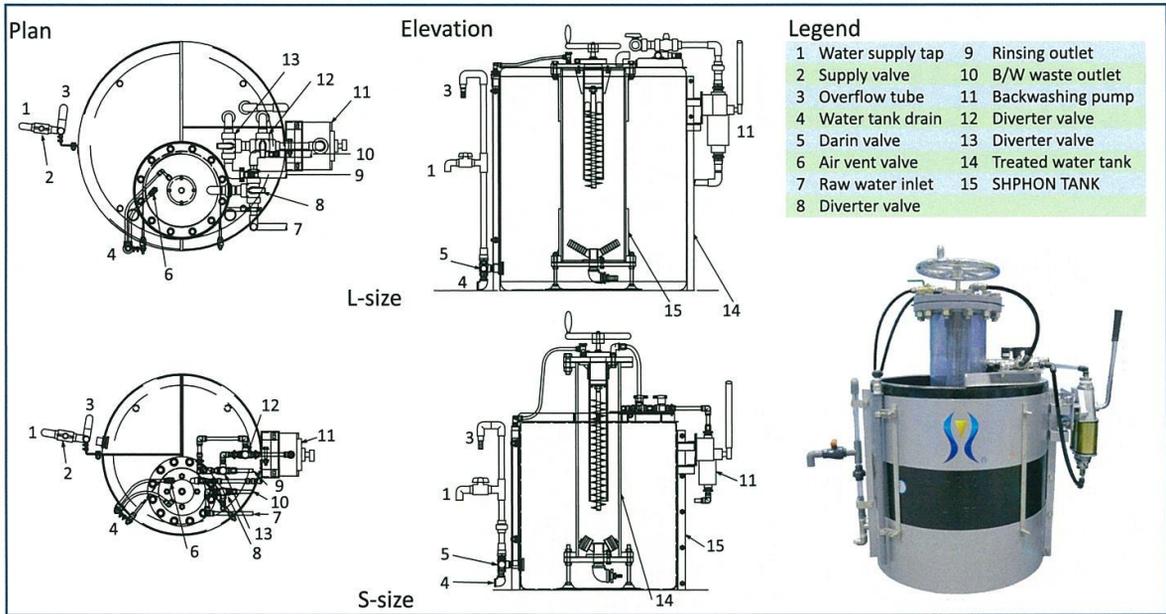
We realize all the people easily access to safe "Water" in the world



NIHON GENRYO Co., Ltd.

Overseas Management Division
 NKF-Kawasaki Bldg. 1-2 Higashida-cho, Kawasaki-ku,
 Kawasaki-shi, Kanagawa, 210-005 JAPAN
 TEL. +81 44-222-5555 Fax. +81 44-222-5556
 saitotank@genryo.co.jp www.genryo.co.jp

Non-Electric SIPHON TANK series



Non-Electric SIPHON TANK made drinkable water!

<p>Compounded water by Kaolin</p> <p>at exhibition</p>	<p>Raw water turbidity 300NTU</p> <p>▼</p> <p>Treated water turbidity Less than 0.1NTU</p>	
<p>River water</p> <p>at site</p>	<p>Raw water turbidity 11.0NTU</p> <p>▼</p> <p>Treated water turbidity 0.91NTU</p>	
<p>Spring water</p> <p>at site</p>	<p>Raw water turbidity 7.25NTU</p> <p>▼</p> <p>Treated water turbidity 0.80NTU</p>	
<p>Shallow well water</p> <p>at site</p>	<p>Raw water turbidity 297NTU</p> <p>▼</p> <p>Treated water turbidity 0.43NTU</p>	
<p>Lake water</p> <p>at site</p>	<p>Raw water turbidity 10.9NTU</p> <p>▼</p> <p>Treated water turbidity 0.58NTU</p>	