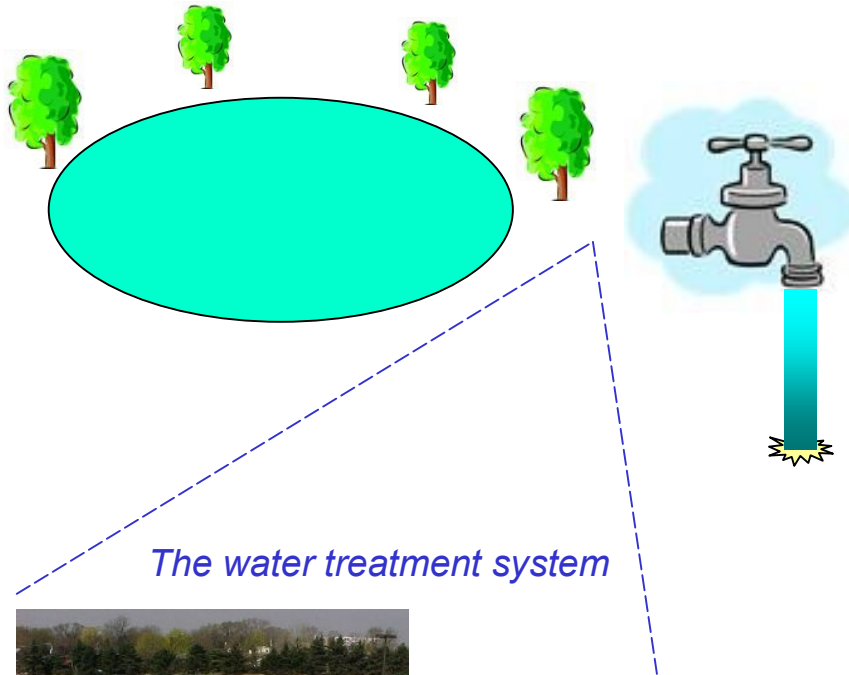


Introduction of water filtration tool by Frontiere Co., Ltd.



Water is the gift from nature.

It is also the vital element of life.



The water treatment system



The water treatment system as in left brings such drinking water to each home.

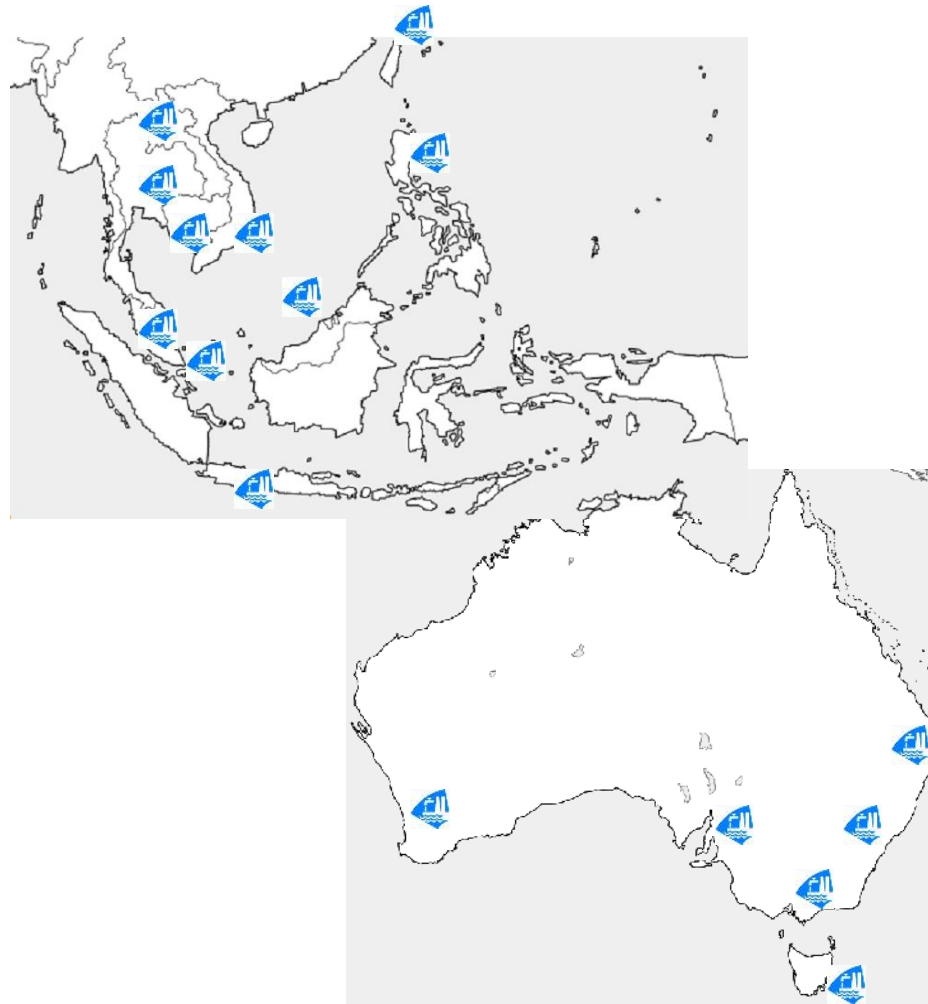


Image of water treatment system

Most of the major cities have water treatment system but some of them are still on the way for its construction.

In the meantime, having access to the good water is yet important for the health.

For some area, choices are limited to;

- buying bottled drinking water.*
- boiling untreated water to make it safer.*
- installing rather large water filter system at high cost.*

Needless to say the running the risk of drinking such untreated water causes health problem occasionally.



Such concern is not worth worrying.

The water filtration tool in the next slide will deliver you the solution at some various situations.

Solution 1. Super Delios.

Portable and faucet-free.



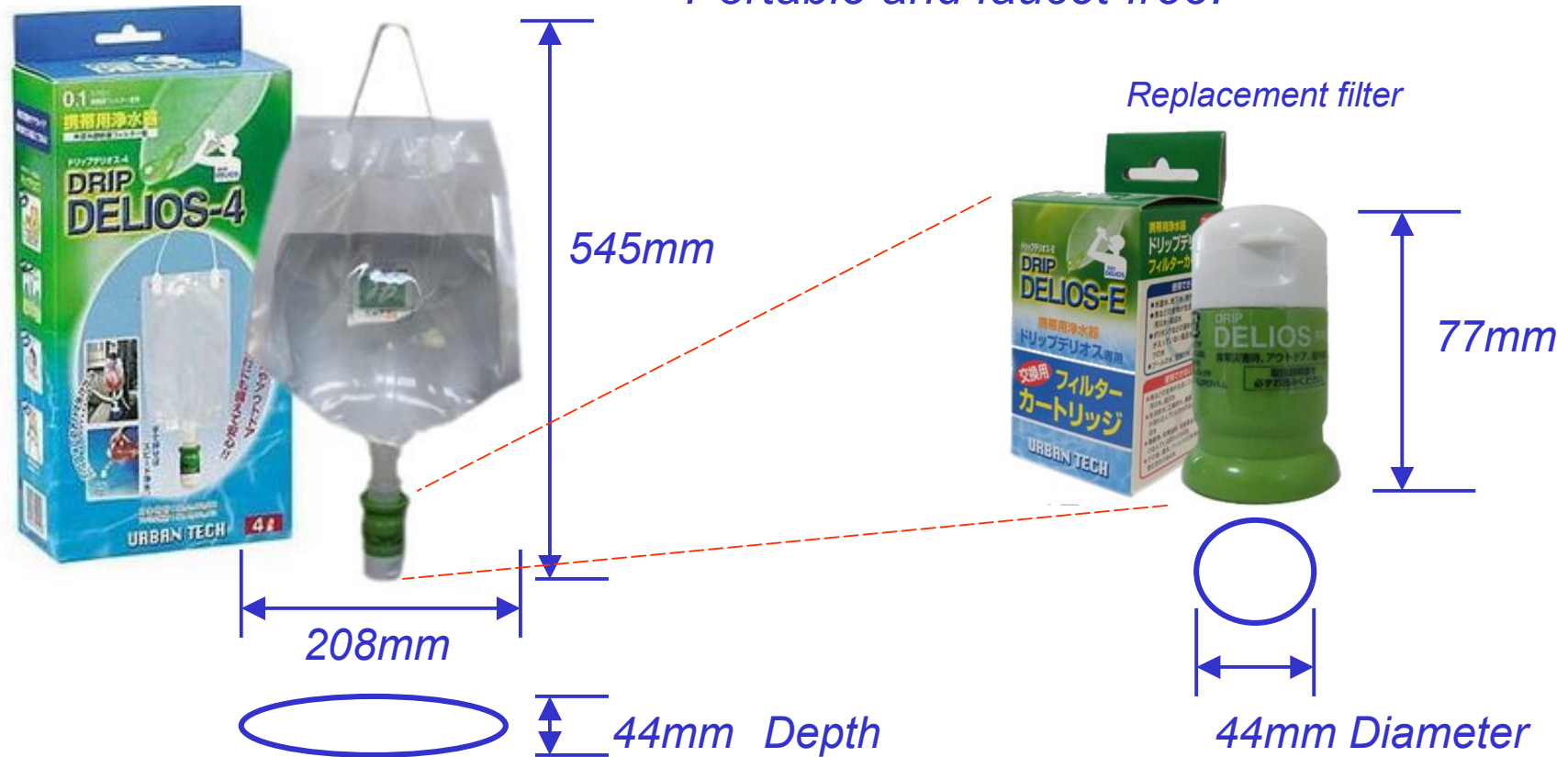
Container capacity: 300ml

Filtration speed: Approx. 1 liter / min. at normal hand squeezing, thus around 20 seconds for 300ml

Weight: 58g without 300ml water

Solution 2. Drip Delios 4.

Portable and faucet-free.



Container capacity: 4 liters

Filtration speed: Approx. 100ml / min. at only dripping, not by hand squeezing.

Weight: 90g without water

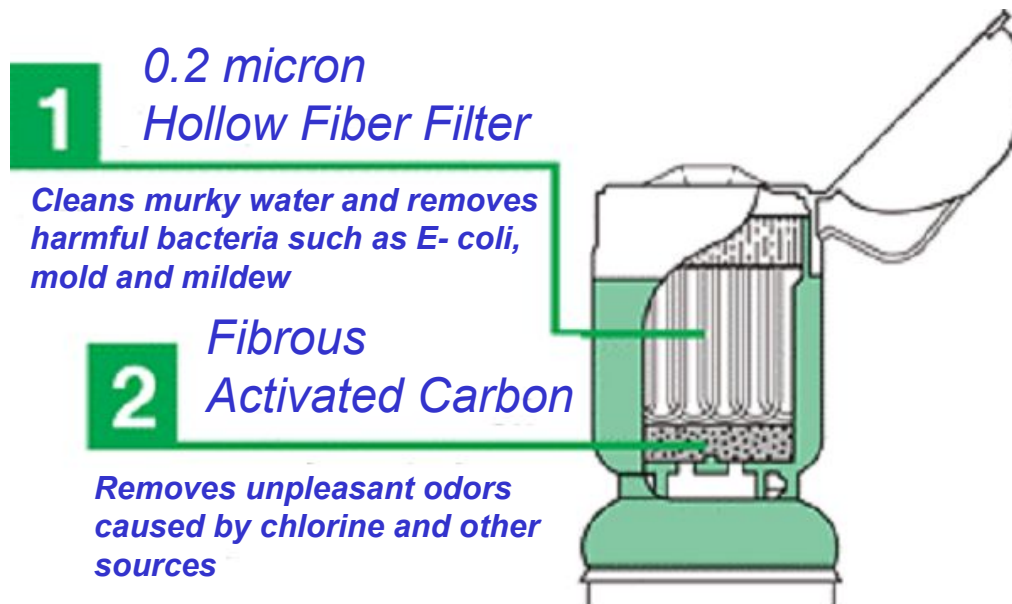
Flexibility and mobility

DELIOS series can be folded into small size and are mobile.

This characteristic is capable to provide aids to the following situations.

- * In case of suspension of water supply, DELIOS can be carried to the source of water nearby and thus it can provide clean water.*
- * By its mobility, DELIOS can be brought with you for camping and traveling abroad without concern about drinking water.*

Reliability - Filter structure



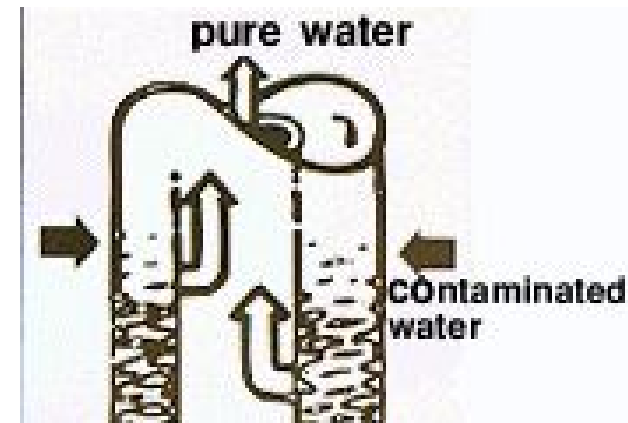
Magnified image of hollow fiber filter



Polysulfone porous Hollow Fiber Filter

The Super Delios is patented for its combination of such filter and durable elastic container.

US Patent No. No.5,681,463
Japanese Patent No.3,468,568



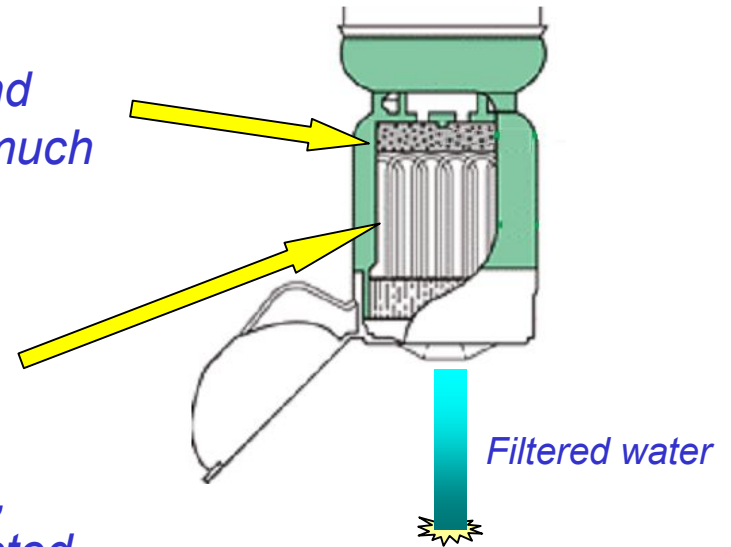
Water penetrated from the Hollow Fiber Filter

Reliability – Dual-structure design

"Fibrous Activated Carbon" removes sediment and disagreeable odors in the first stage. It absorbs much faster than the ordinary type of activated carbon.

Then, **"Hollow Fiber Filter"** removes poisonous bacteria (e.g. E-COLI, COLIBACILLUS, SALMONELLA, CRYPTOSPOIDIUM, GIARDIA, CHOLERA, DYSENTERY), mold, and contaminated materials.

Thus, SUPER DELIOS can produce safe drinking water from various water sources; tap water, river water, well water, pool water, rain water, and so on.



Filter performance

Test result #1(Gifu Research Center for Public Health [Authorized by Japanese government])

Nagara River is famous as one of the clearest rivers in Japan. We requested Gifu Research Center for Public Health to test the water quality in Nagara River.

Kind of bacteria	Unfiltered Water	Filtered Water by DELIOS
General bacteria	6.9×10^2 (pcs/ml) * 690 general bacteria exist in 1ml of the water	0(pcs/ml) * No general bacteria exist!
Colibacillus	1.3×10^2 (pcs/ml) * 130 colibacillus exist in 1ml of the water	0(pcs/ml) * No colibacillus exist!

Filter performance

Test result #2 (Japan Food Research Laboratories)

We requested Japan Food Research Laboratories to test whether SUPER DELIOS could come out diminuta as smallest disease - causing bacteria (0.22micron) or not.

Condition	Unfiltered Water	Filtered Water by DELIOS
Unused SUPER DELIOS	2.0×10^5 (pcs/ml) * 200,000 diminuta exist in 1ml of the water	0(pcs/ml) * No diminuta exist!
Used SUPER DELIOS (Already filtered 200 liters)	5.4×10^5 (pcs/ml) * 540,000 diminuta exist in 1ml of the water	0(pcs/ml) * No diminuta exist!

Specifications *(SUPER DELIOS 1-1)*

Filter Materials	Polysulfone Micro-porous Hollow Fiber Filter (pore diameter: 0.2 μ m) and Fibrous Activated Carbon
Hollow Fiber Filter Housing Material	ABS
Snap-Shut Cap Material	Polypropylene
Container Material and Capacity	Polyethylene; 300ml (approx. 10 oz)
Capacity of Filter	Approx. 53 gallons (200 liters) * the exact amount depends upon the source of water.

Specifications *(SUPER DELIOS 1-2)*

Filtration Flow Rate	Approx. 1.0 liters/min (when hand-squeezed at 2.84 psi (0.2kgf/cm ²) * the exact amount depends upon the source of water.
Product Size	[SUPER DELIOS] Height 233mm (9.2 inches) x Width 70mm (2.8 inches) x Depth 50mm (2.0 inches) [SUPER DELIOS-E] Height 77mm (3 inches) x Diameter 44mm (1.7 inches)
Weight	[SUPER DELIOS] Approx. 2.0 oz. (58g). When full, approx. 13 oz. (358g) [SUPER DELIOS-E] Approx. 1.4 oz. (40g)
Material of Carrying Pouch	Nylon

Specifications *(DRIP DELIOS 1-1)*

Filter Materials	Polysulfone Micro-porous Hollow Fiber Filter (pore diameter: 0.2 μ m) and Fibrous Activated Carbon
Hollow Fiber Filter Housing Material	ABS
Snap-Shut Cap Material	Polypropylene
Container Material	Linear Low Density Polyethylene Film
Container Nozzle	Polypropylene
O Ring	Nitrile Butadiene Rubber

Specifications *(DRIP DELIOS 1-2)*

Container Handle	Polyethylene
Capacity of Filter	Approx. 264 gallons (1000 liters) and up * the exact amount depends upon the source of water.
Filtration Flow Rate	Approx. 100cc/min (flow rate at the beginning of use) * the exact amount depends upon the source of water.
Product Size	[DRIP DELIOS-4] Height 545mm(21.5 inches) x Width 208mm(8.2 inches) x Depth 44mm(1.7 inches) * The height includes handle's height of 100mm(4 inches) [DRIP DELIOS-E] Height 77mm (3 inches) x Diameter 44mm (1.7 inches)
Weight	[DRIP DELIOS-4] 3.2 oz.(90g) [DRIP DELIOS-E] 1.4 oz.(40g)

Durability

The SUPER DELIOS filter has a capacity of 200 liters for tap water filtration.

Therefore, approximately 660 times at SUPER DELIOS (with 300ml container).



The DRIP DELIOS filter has a capacity of 1,000 liters for tap water filtration.

Therefore, approximately 250 times at DRIP DELIOS (with 4 liters container).



However, the durability depends on the source of water and it is the time for filter replacement when the filter becomes clogged.

Unavailability for filtration

SUPER DELIOS and DRIP DELIOS cannot be used for the water-dissolved materials such as below.

- Salt in the sea water. (Sea water cannot be filtered.)*
- Poisonous organic and chemical materials dissolved in the water.*

Therefore, NEVER AVAILABLE for the water where there is no fish.

(Because this indicates that there could be too much acid or some poisonous materials dissolved in the water.)

Reasonable purchasing

The price of SUPER DELIOS is reasonable.

Among the other similar bacteria-removing water filters, DELIOS series are reasonable in price.

Frontiere Co., Ltd is pleased to present you the quotation for this unique and effective bacteria-removing portable water filters.

Thank you very much.