WATERouter

Teaming up with nature.

Summit360
Research LLC

Introducing WATERouter®

At Summit360 Research our mission is to improve lives by finding everyday ways to support nature. Our WATERouter® technology offers you the ability to capture previously used water and route it to toilets, saving fresh water. A great way to introduce everyday conservation into any home.

WATERouter® Features

Saves the environment.
Easy to use, one step flush & fill.
Sanitary hands free operation.
Reduces fresh water usage in toilets.
Stores greywater throughout the day.
Saves money, can pay for itself in months.
Introduces everyday conservation into any home.
Potential to eliminate all fresh water usage for toilets.
Can be designed to match bathroom decor and with added storage.
Applicable to most homes.
Homeowner installation.
Typically 1 hour of installation down time.
No remodeling necessary in most cases.
No electrical wiring or batteries required.
User maintainable.
Fail safe operation.
More water for low flow toilets.

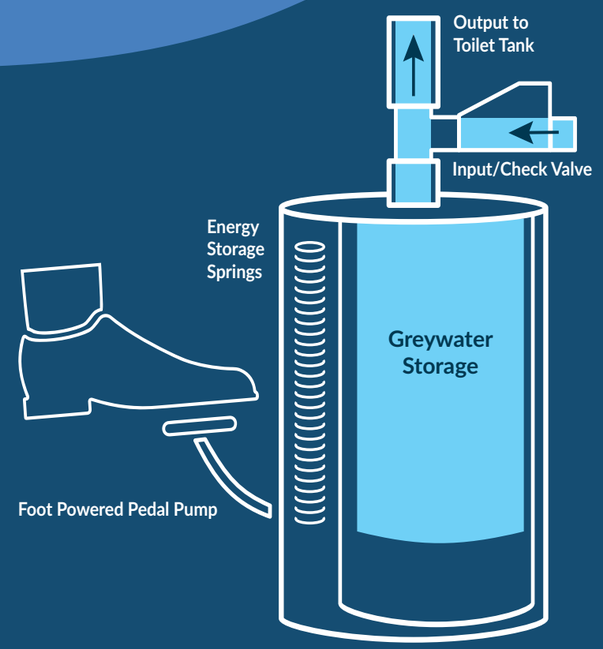
Installation

The beauty of the WATERouter® is that it is designed to be a DIY project added to your existing bathroom in about an hour.

Simple tools such as a wrench, pliers, and screwdriver are all most installations should require.

The installation is considered a low to medium level of difficulty and will vary based on your specific configuration and customization needed.

How it Works



WATERouter® captures and stores greywater from a nearby sink.

When flushing is desired, the user depresses the WATERouter® pedal triggering the toilet's flush mechanism and then transferring the stored greywater into the toilet tank readying it for the next flush.

If there is not enough greywater to refill the toilet tank, the toilet's native fill mechanism is used to make up any shortage.

Recycle, Reduce, Reuse

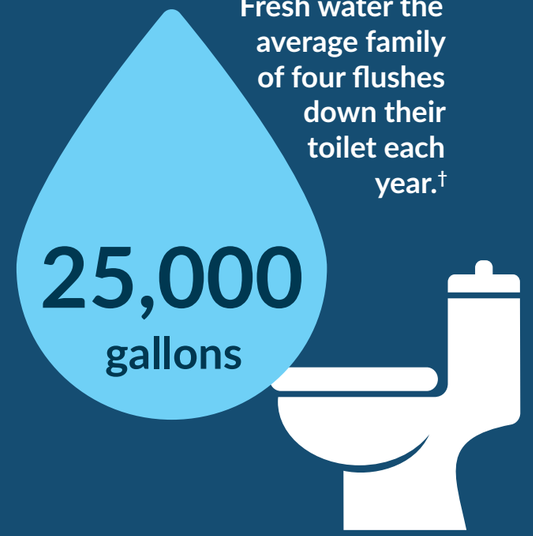
While over 70% of the earth is covered with water, less than 3% is fresh water and less than 1% is accessible. The rest is locked away in glaciers, snowfields and below the earth's surface. According to World Vision (worldvision.org) over 800 million people lack access to fresh water and over 800 children die from poor water and sanitation. Those that do have access to freshwater incur both an economic as well as environmental cost that has worldwide impact.

Hand Washing

The average faucet flow rate is between 1.0 - 1.5 gpm (gallons per minute). Hand washing for 20 seconds can use up to 0.5 gallons of water.

Brushing Teeth

If you leave the water on while brushing your teeth, you will use about 5 gallons of water.



*Ref: Statistica 2020
† Ref: American Water Works Association

Water, water everywhere but not a drop to drink.

Don't Flush Our Planets Most Valuable Resource.

While bathtubs use more water in a single-use, the toilet is flushed many times a day (and by multiple family members). This makes the toilet the biggest use of fresh water in a typical home.

WATERouter® allows homeowners to retrofit their existing toilets to utilize greywater, saving many thousands of gallons of fresh water per year.

Saving fresh water has a significant environmental and economical impact worldwide.

Frequently Asked Questions

Q: What is the WATERouter®?

A: The WATERouter® is a new water recycling system that utilizes greywater to flush a toilet. It is easily retrofitted onto most existing toilets utilizing greywater which is typically captured from a nearby sink.

Q: How is WATERouter® different from previously available greywater toilet devices?

A: Some other systems utilize an electric pump to move stored greywater to the toilet tank. These systems are complex and require a source of electricity to operate. WATERouter® can be installed and maintained almost anywhere by most home owners without the need to hire plumbers or electricians.

Q: How long does it take to install?

A: Installation should take approximately one hour.

Q: Can I collect water from other sources in my home (tub/shower, washing machine, outdoor rain barrow, water softener)?

A: Yes, as long as the greywater flow from the source to the WATERouter® can be done via gravity.

Q: Where can I buy the WATERouter®?

A: WATERouter® is currently in the proof-of-concept and licensing stage. A "proof-of-concept prototype" has been developed to demonstrate the basic concepts and show that they can be implemented in real life usage scenarios. Please contact us if you are interested in licensing opportunities.

Q: What if I have not used enough water to fill the WATERouter® greywater reservoir? Can I still flush my toilet?

A: Yes, the toilet's native fill mechanism is used to make up any shortage of greywater available so that the toilet can be flushed. You do not need to collect enough greywater before you are able to flush the toilet.

Q: Is there any risk of overflow? Or water backup?

A: No, there is no chance of overflow or water backing up. This is because of the following:

1. In the example where a sink is used as the greywater supply, excess greywater continues down the drain pipe once the WATERouter® greywater reservoir is filled.
2. If excess greywater is supplied to fill the toilet tank, the toilet tank's native overflow mechanism is applied to the expel the excess greywater into the toilet bowl.

Contact us:

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