

How It Works (Residential Use)

“Power-Pipe™ (formerly known as GFX) is made of up two main parts: (1) outer coils (made up of one or two copper tubes) that are tightly wrapped around a (2) larger, inner copper pipe. These two parts, which make up the Power-Pipe™, replace part of your existing vertical drainage pipe (inner pipe) and become part of your fresh water supply line (outer coils).”... **Anonymous User** on 8/26/2009, said: “Purchased this and found out the building inspector refused to authorize it. Something to do with the fact the UL certification is not applicable to potable water and since the device does not have ASTMB88 stamped on its copper, it was not considered safe for potable water.” (Quotes from: <http://www.conservationmart.com/p-714-power-pipe-drain-water-heat-recovery.aspx>)

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Manufacturer: [Renewability Energy](#)

Item#: 10794

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“Harness the temperature of drain water to preheat water at home -AND/OR- preheat & precool water at processing plants, hotels, hospitals, camps, etc.!”

Highlights (Residential Use)

- Patent pending design captures the heat of existing hot water that would otherwise be lost
- Prevents hot water from running out
- Saves you 25% to 40% on your energy bills
- Pays for itself in 2 to 5 years (rate of return 15% to 50% per year)
- Easy to retrofit into almost any home (need vertical shower drainage pipe)
- Requires no maintenance, and lasts over 50 years

- Can be used in industrial, commercial and institutional settings and for other general purposes, in addition to residential settings

Fresh, cold water takes a lot of energy to be heated. At the same time, when warm water goes down the drain in the shower, about 90% of the energy that was used to heat water in a home is washed out to with it. The Power-Pipe™, a drain-water heat recovery system (DWHR), captures some or most of that valuable energy and use it to preheat cold fresh water.

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- As hot water goes down the shower drain (through the inner pipe), it clings to the side of the Power-Pipe™ wall as a thin "falling film."
- This falling film triggers the transfer of heat from the inner pipe to the outer coils of the Power-Pipe™ to the fresh water supply (within the coils) - as a result, preheating the water source to your hot water heater (tank, tankless or solar).
- Since copper is an excellent heat conductor, Power-Pipe™ brings the water supply that would normally measure around 50° F (10° C) up to 77° F (25° C); this dramatic temperature change happens without any compromises to the safety of your drinking water or any noticeable affects to water pressure.
- It's easy enough for any "Do-It-Yourselfer" to install to an existing vertical drainage pipe that's fed by a primary shower.

It Works for Businesses Too (Non-Residential Use)

[Power-Pipe](#) can also be utilized for **industrial, commercial, institutional and other organizational group** uses. The principle of temperature transfer from one water supply to another water supply still applies. The main difference here is, the harness of energy is done in a massive scale, and the temperature of cold fresh water can also be used to cool other materials (e.g., fresh warm milk from cows) for the following applications:

- **Industrial:** [Dairy Processing](#), [Food Processing](#), [Meat Processing](#), [Textiles](#), [Parts Washing](#), [Pulp & Paper](#)
- **Institutional:** [Hospitals](#), [Universities](#), [Military](#), [Municipals](#), [Prisons](#)
- **Commercial:** [MURBs*](#), [Hotels](#), [Restaurants](#), [Health Clubs](#), [Laundromat](#)
- **General:** [Public Showers \(locker rooms, camps, homeless shelters, etc.\)](#), [Dishwashing](#), [Sterilization](#)

* MURBs stands for Multi Unit Residential Buildings such as apartments, condominiums (condos), etc.

Package Content

- Power-Pipe™
- 2 Drain Connectors
- Installation DVD

- 10-Year Warranty

Make & Model

- **Manufacturer:** [RenewABILITY Energy](#)
- **Diameter x Length:** 2D x 60L, 3D x 36L, 3D x 48L, 3D x 60L, 4D x 48L, 4D x 72L inches (NOTE: Vertical length of Power-Pipe needs to include 5.25 inches for drain connectors)
- **Material:** Copper
- **Technical Specification:** [Data Sheet](#)

Requirements

- Vertical drainage pipe connected to a primary shower.

How to Install (Overview)

- Cut part of your existing drain pipe and use the supplied connectors to install the Power-Pipe™ .
- Specific instructions for:
 - [New Construction Home](#)
 - [Retrofitting to Existing Home](#)
 - [Commercial, Industrial and Institutional](#)

Warranty

- [10-Year Warranty](#)

Power Pipe Drain-Water Heat Recovery Product Reviews



On Using

- **Watch on RenewABILITY:** [Power-Pipe™ Overview](#)