



Showerloop - Guide 1: Overview

This is the first guide of Showerloop, a real-time filtration, purification & recycling system for shower water.

 Difficulté Facile

 Durée 10 minute(s)

 Catégories Énergie, Science & Biologie

 Coût 0 EUR (€)

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Introduction

Showers are great, but pouring hot and almost drinkable water down the drain is not. Besides the obvious costs to the environment and your bills, there is also a conscious or unconscious psychological cost any time you create waste. To solve this problem we created Showerloop. It's a shower that collects, cleans and reuses the water in real time while you are showering. So now you can shower for as long as you like without wasting precious resources. To realize the gain there is a calculator: <http://showerloopcalculator.zici.fr>

Matériaux

Étape 1 - Theory

So the main components of the filter are the pump, filter housing with the sand and activated carbon filter and the uv-lamp. Large particles like skin cells are trapped by a layer of compressed sand. Finer particles are adsorbed by a layer of compressed activated carbon, including some chemicals like nitrates (in sweat), sulphates (in soap), chlorine and fluorine (in tap water). Finally the UV-lamp is used to sterilize the water so that bacteria can no longer reproduce. It might not seem like a big deal since our bodies are covered in bacteria but the main concern is bacteria from your bum coming into contact with your eyes.

Outils

