

Product Name

Eliodomestico

Designer

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Description of innovation social values

- product category
- formal and functional features
- problems solved by innovation
 - user
 - field of application

Eliodomestico is an eco-distiller running on solar power, to provide safe drinking-water for people in developing countries: a very simple way to produce healthy, bacteria-free water, starting from sea water or brackish water.

Made just from terracotta and zinc-plated metal sheet, the device produces 5 litres of drinking water daily, through a direct solar-powered distillation process.

Compared to traditional solar stills (being equal the surface irradiated by the sun), Eliodomestico is almost 3 times more efficient, due to its design and materials.

The project is conceived like an household: it works autonomously during the day, just in front of people's houses. Its form is inspired from archetypal forms and materials, because it has to be highly recognizable: as a matter of facts, one of the biggest problems in delivering technologies to the developing countries, is that usually the people doesn't understand them. This kind of design is a good way to solve this problem. Made from readily available materials, and poor traditional technologies, the system has no environmental impact, and delivers positive outcomes for local economies, because it's designed to be produced (and eventually repaired) by local craftsmen.

Description of technical features

- operations
- technology

Eliodomestico is designed to function without filters nor electricity, and requires minimal maintenance.

The distiller is very easy to use: in the morning simply fill the water tank with salty or dirty water from a local source, and in the evening collect clean, evaporated and re-condensed water in a portable recipient placed underneath the tank. The water is distilled, hence small quantities of salt can be added for enhanced health benefits.

Dimensions

Around 60 cm in diameter, 55 cm high

Materials

Terracotta, metal sheet

Certifications

The first 2 prototypes are currently testing for certifications.

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Benefits for environment

Eliodomestico is a zero-km product, because it can be produced directly in place. The production uses traditional technologies and natural materials, so it has a minimal environmental impact.

Benefits for human being

Eliodomestico is a source of free and clean water, that enables people to be more healthy and economically independent.