



(Wateroom, 2020)



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Membrane Filter by Pumping

Where it has been implemented:
Different Countries

Proponent:
Water Room

from figure Wateroom in approximate value of 40 euros

Price estimation



Degree of difficulty



To estimate the difficulty of implementation, with a figure being the number of tools used to build the system

Description: ROAMfilter Plus is a diaphragm filter with an intuitive design in the form of a bicycle pump. The filter cartridge has pores of size $0.02 \mu\text{m}$. It is used by holding it with the feet and pumping with the handle to pass the water from the source through the filter and to the integrated tap. The device can also be used in a gravity-driven installation. The device weighs 4.2 kg.

Interesting features: The filtration flow rate is quite high cc filters. In addition, it is easy to transport to distant communities.

Source: WaterRoom, 2022 / [Wateroom.com](https://www.wateroom.com/) | [Link](#)
Mapping method: Digital



Membrane Filter

Alta Verapaz, Guatemala

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water supply

water filtration

climate change adapt

water scarcity