

## Rainwater reuse system

Actually, the availability of water for daily consumption, whether for domestic activities or for direct consumption, presents a problem increasingly addressed in society. Once the actual need for water is not directly linked with potable water, there will be the possibility of replacing public water with lower quality water. In this way, the possibility of using rainwater appeared, causing great decreases in the consumption of drinking water.

This system consists of collecting water from the rain through gutters installed on the roofs of houses, this water is sent to a reservoir, where a filtration system is installed, in order to remove the solid particles present. The water reservoir should not be exposed to sunlight in order to avoid growth of algae, so the most reliable option will be an underground reservoir. In this way, this reservoir must be equipped with a pump, to raise the water to the level of its use. This will be equipped with a level float, acting at a minimum level, so as to activate the supply water system and the maximum level, if it is not possible to store more water, the inlet valve closes.

The water collected and stored by the system in question will be used exclusively for watering, washing and flushing. In the case of outdoor activities, a faucet would be installed connected to the water reservoir, for use inside the house there would be two pipes, one of the public network and another of the reservoir.

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