

Water Purification Catalyst

The technology is a filtering device with a specialty chemical treatment implemented in the recycling of wastewater at the location of use, i.e. residence or building and converts the same to a near drinkable quality with minimum chemical and power usage. It is composed of a filtering system surrounded by dual chambers in which specific chemicals are introduced into the filtered water. The chemicals are safer than chlorine, which is widely used in treating water today. The device can be scaled in size to meet user needs. Its size is small enough to be installed as part of a residential plumbing system.

Salient Features

- The technology is simple, easy to use, and does not require expensive filters, pumps and other equipment.
- The process is very short and does not require high contact times which are common for other technologies.
- It allows for more than 70% clean water recovery
- Its purification is thorough, impacting several key purification criteria for allowed levels of contaminants in effluent water. These include BOD (Biological Oxygen Demand), COD (Chemical Oxygen Demand), ph (acidity and alkaline), TSS (Total Suspended Solids), odor, color, and bacteria.
- The cost of recycling is very low and affordable by common people.

Major Application / End Users

- Residential users
- Society at large
- Areas effected with water scarcity