

Household Reverse Osmosis Water Filtration System

This household RO system features an innovative side stream RO membrane design. It doubles surface flow while reducing inlet flow by 30%, enhancing membrane surface flushing and increasing desalination rate.



Overview

Advanced Household RO Filtration

This household reverse osmosis water filtration system utilizes innovative Side Stream technology to significantly improve water recovery rates and reduce wastage. Designed for efficiency, it features a patented auto-flush mechanism that prevents contamination and extends the lifespan of filters and membranes. The system is equipped with a user-friendly LED display that provides real-time status updates and filter life alerts, ensuring consistent access to clean, safe drinking water.

Performance Metrics

Water Recovery Rate

50 %

System Recovery Rate

Membrane Utilization

95 %

Max Utilization

Water Wastage Reduction

50 %

Wastage Reduction

Technical Features

Maintenance Advantages

- 30% increase in filter service life
- 30% reduction in maintenance costs
- Auto-flush prevents jamming and contamination
- Reduced launching frequency

Interface Features

LED Status Indicator • Filter Life Alarm

Core Technologies

Side Stream RO Membrane, MLSB Membrane Patent, Auto-Flush System, LED Monitoring