

# Household Reverse Osmosis Water Filtration System

This system utilizes an innovative side stream RO membrane element design that doubles surface flow. It enhances membrane surface flushing and reduces concentration difference, which increases the desalination rate.



## Product Overview

### High-Efficiency Reverse Osmosis System

This household reverse osmosis water filtration system features an innovative Side Stream RO membrane design that significantly improves water recovery rates while reducing water wastage. By utilizing advanced MLSB membrane technology and an intelligent auto-flush system, this unit effectively prevents membrane jamming and contamination. Designed for long-term reliability and low maintenance, it offers an optimal solution for clean, safe drinking water with extended filter life and convenient user monitoring.

## Performance Metrics

### Water Recovery Rate

**50 %**

Recovery Rate

### Membrane Utilization

**90 %**

Utilization Rate

## Technical Features

### Maintenance Advantages

- 30% reduction in maintenance costs
- 30% extended filter life
- Automatic flushing to prevent jamming
- Disposable filter design for secondary contamination prevention

### Core Technologies

Side Stream RO Membrane, MLSB Membrane Patent, Auto Flush System, Disposable Filters

## User Interface

### Monitoring Functions

- System working status
- Filter life alarm

### Interface

Customer Friendly LED display

## Filtration Stages

### Filtration Components

Stage	Specification
Sediment Filter	5 Micron PP
Pre-Carbon Filter	Granular Activated Carbon
RO Membrane	50/75 GPD
Post-Carbon Filter	Taste & Odor Reduction