

What is Reverse Osmosis (R/O) Water Filtration?

Reverse osmosis or R/O is a water purification technology that removes dissolved solids and contaminants from drinking water. During the reverse osmosis process, water is pushed through a semi-permeable membrane to filter out very small contaminants. Typically R/O involves four stages of filtration: a sediment filter, pre-carbon block, reverse osmosis membrane, and post-carbon filter. The sediment filter removes the largest particles, like dirt, sand, and rust to prevent clogging of the subsequent filters. The pre-carbon block filters dissolved compounds, such as chlorine. The R/O membrane then removes molecules heavier than water, such as sodium, high levels of lead, dissolved minerals, bacteria, and fluoride. Finally, the post-carbon filter polishes the water.

Who Needs R/O Filtration?

In the United States, water with TDS (Total Dissolved Solids) of 250 ppm (parts per million) often has a detectable "off" odor or taste. Quench recommends reverse osmosis filtration for customers who rely on well water or that have tap water with TDS levels of 250 ppm or higher. Reverse osmosis is also commonly used in industries that require a higher level of water purity, such as medical and dental practices, hospitals, laboratories, and some manufacturing operations.

TFS450

The Quench TFS450 is a Blended Reverse Osmosis Water Filtration System that produces Recipe Quality Water™, perfect for hot beverages and steamers while maintaining efficient equipment operation in water conditions with high TDS levels. The Quench TFS450's unique design allows for filtered water to be blended with R/O water for adjustment of water quality and production volumes.

THE TFS450 FILTRATION SYSTEM HAS:

- ◆ Daily production capacity of 300 gallons per day as a pure R/O system and 600 gallons per day as a blended R/O system
- ◆ A hydraulic (non-electrical) bypass valve that keeps running during high demand periods, even during power outages
- ◆ Built-in pressure gauge and in-line TDS meter for monitoring
- ◆ Adjustable metering valve for easy adjustment of proportion of filtered water to R/O water
- ◆ Pre and Post membrane carbon and sediment filters to ensure the highest quality water

The TFS450 will bring expertly balanced water to all your coffee brewers, water coolers or ice machines. It requires no electricity and can be installed virtually anywhere.

