

QUENCH REVERSE OSMOSIS SYSTEM

**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 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.

**Quench Reverse Osmosis Filtration Systems:**

Quench offers three standard R/O filtration systems of varying capacities: the Quench 74, Quench 76, Quench 78. All three systems include a sediment filter, carbon block filter, semi-permeable R/O membrane, a post filter and a R/O water storage tank.

	Quench 74	Quench 76	Quench 78
Sediment pre filter (µ)	5	5	5
Carbon block pre filter (µ)	10	10	10
Semi-permeable R/O membrane (GPD)	50	100	150
R/O tank (storage size in gallons)	3	6*	10
Filter Dimensions	13.25" w x 5.375" d x 16.5" h	13.25" w x 5.375" d x 16.5" h	13.25" w x 5.375" d x 16.5" h
Tank Dimensions	10.9" diameter x 13.75" h	10.9" diameter x 13.75" h*	15.2" diameter 22.5" h

\*The Quench 76 uses 2 three-gallon storage tanks. Be sure to have space for 2 10.9" diameter x 13.75" h storage tanks.

Each R/O Filtration System:

- ◆ Removes particles above 1/500,000th of an inch (0.05 microns);
- ◆ Eliminates organic molecules that can impart off taste and odors; and
- ◆ Is available with a 8.5" gooseneck spigot (optional) for easy access and container filling.

