

Easy Cartridge Removal & Replacement Without Turning Off Water An innovative leader in water treatment since 1954,
Nelsen assures you the highest quality and reliability in
the industry. Nelsen Water Systems are sold, installed
and serviced by independently owned and operated
Nelsen Dealers nationwide.



## Water in its

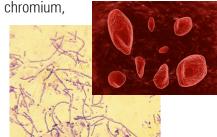
Purest Sense Nelsen reverse-osmosis drinking water

systems significantly reduce unwanted substances bigger than 0.0001" such as

carcinogens, heavy metal ions such as cadmium, chromium,

lead and mercury; chlorine, cryptosporidium, salts,

turbidity, nitrate, VOC's, organic compounds, dissolved solids, tastes and odors leaving only clean, great tasting water.



### How does the

Process Work
Reverse osmosis is the same process used by most major bottled water suppliers. With a Nelsen Reverse Osmosis Drinking Water System, you can have the same high-quality water available from

your own faucet for a fraction of the cost of bottled water.

Just how does the reverse osmosis process work? During the process, water is forced through a semi-permeable membrane that traps contaminants. These contaminants are then flushed out of the system and down the drain, leaving your drinking water clean and fresh.

#### PRE-FILTER (Sediment)

Removes sediment, rust, dirt and other solid debris. Filters down to five microns.

#### PRE-FILTER (Carbon Block)

(Activated Carbon) Removes chlorine from the feed water to protect the membrane. Filters down to five microns.

#### **RO MEMBRANE**

Thin Film Composite design. Rejects 98% of the dissolved metals and salts. plus other harmful contaminants.

#### **POST-FILTER (Carbon Block)**

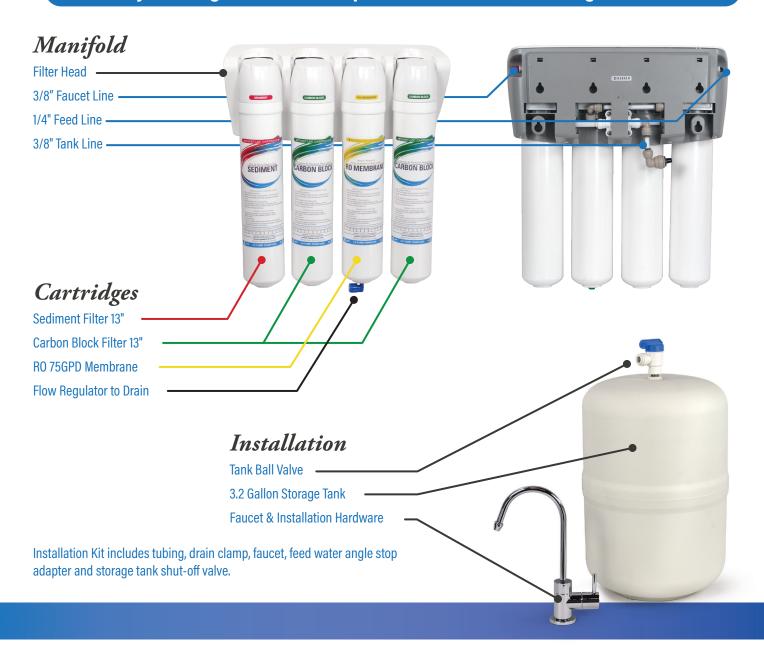
Removes any remaining objectional tastes and odors picked up in the storage tank.



# How the Quick Change, Twist & Loc Works



## **Easy Cartridge Removal & Replacement WITHOUT Turning Off Water**



## Specifications

Stage 1	Stage 2	Stage 3	Storage Tank	Stage 4		
Sediment Filter	Carbon Block Filter	RO Membrane		Carbon Block Filter		
Gallons per day (L/day	)*	30.68	5 GPD (116.02 L/DAY)			
<b>Typical System Flow S</b>	equence	<b>⇒</b> S	⇒ Sediment Filter ⇒ Carbon Block Pre-filter			
		<b>→</b> R	everse Osmosis Membra	ne 🗪 Storage Tank		
		<b>→</b> C	arbon Block Post-filter 🖶	Dispensing Faucet		
Sediment Filter (Stage	1)	5 Mic	5 Micron			
Carbon Block Pre-filter	r & Post-filter (Stage 2&	<b>4)</b> Carb	Carbon Block 5 Micron			
Reverse Osmosis Mem	brane (Stage 3)	Thin	Thin Film Composite			
Storage Capacity		Plast	Plastic Coated Metal - Capacity 3.2 Gallon (12 Liters)			

	PURPOSE	MICRON Rating	CAPACITY	FLOW RATE	RATED LIFE	STAGE
Sediment Filter PART# TWIST-SEDIMENT	Sediment Reduction	5	2500 Gallons (9463 Liters)	0.5 gal/min	6 Months	1
Carbon Filter PART# TWIST-CARBON	Chlorine, Taste & Odor	5		1.9 liters/min		2 & 4

	PURPOSE	RECOVERY (PRODUCT WATER)	EFFICIENCY Rating	TDS Reduction	RATED LIFE	STAGE
RO Membrane PART# TWIST-MEMBRANE-75	TDS Reduction	30.57%	18.73%	91.1%	24 Months	3

RECOMMENDED FEED	WATER CHARACTERISTICS	STAGE		
Working Pressure	30 - 100 psi (207 - 690 kPa)	1. The reverse osmosis membrane used in these		
Temperature	39 - 100 °F (4 - 38 °C)	systems may be damaged by chlorine. These systems include activated carbon filters which protect the		
pH range	5 - 10	membranes by reducing chlorine. Influent chlorine should no		
Turbidity	< 1.0 Net Turbidity (NTU)	exceed 3 mg/L		
Hardness (CaCO3)	< 300 ppm	2. Additional information on factors that affect RO performance		
Iron (Fe)	0 - 1 ppm	can be found in the "Performance & Technical Information"		
Chlorine (CI2)	0 - 3 ppm (0-3 mg/l)	section.		

#### Represented by:

- \* The stated product performance is based on data taken after 30 minutes of operation at the following test conditions: 2,000 mg/L NaCl solution at 225 psig (1.5 MPa) applied pressure, 15% recovery, 77° F (25° C), pH 6.5–7.0
- \*\* Rated Life and Capacity are dependent on local water conditions and level of pre-filtration.

The disposable filter cartridges must be replaced every 6 months and 24 months for the system membrane, at the rated capacity or if a noticeable reduction in flow rate occurs.

Performance of the reverse osmosis membrane is affected by several factors which must be considered when judging the condition of the system. The main factors which affect system performance are pressure, temperature, total dissolved solids level, recovery and pH.

**Faucet**