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## **7-STEP PURIFICATION PROCESS**

- STEP 1:** 5 Micron Polypropylene Pre-Filter – Removes particles, sediments, and dirt prior to the Carbon Bed.
- STEP 2:** Carbon – An activated carbon filter that removes chlorine, chloramine, solvents, insecticides, gasses, and other harmful contaminants. Works as a pre filter for water softener (Ion Exchange). Includes an automatic backwashing system.
- STEP 3:** Ion Exchange. In this system, hardness ions (calcium and magnesium) are exchanged for salt (sodium or potassium) ions. The exchange takes place within the resin tank of the water softener. When water flows through the tank it comes in contact with small resin beads that are covered with salt ions. As water flows through the resin beads, hardness ions trade places with salt ions. This process protects the Reverse Osmosis Membranes.
- STEP 4:** Reverse Osmosis Membranes – Water is forced through a semi permeable, .0002 micron membrane. Allowing only pure water molecules to pass to storage tank.
- STEP 5:** Ozonation in the water storage tanks. Keeps water fresh while in storage.
- STEP 6:** Water travels through a 4.5 in x 20 in coconut shell carbon block polishing it for an exceptionally smooth taste before passing through the Ultraviolet Sterilizer.
- STEP 7:** Ultraviolet Sterilizer – Stainless steel sterilizer which can eliminate up to 99.9% of all bacteria if it were present.