The Most Complete Purification Process

Reverse Osmosis (RO) drinking water systems include mechanical filtration to remove particles, carbon absorption and absorption to remove chlorine, taste, odor and chemical contaminants, as well as membrane separation down to .0001 microns. RO membranes remove dissolved solids at the ionic level. No other purification system can provide better removal. Reverse Osmosis Systems provide the best quality drinking water for your family.



Reverse osmosis systems remove the entire spectrum of harmful contaminants

## Common Residential Applications

- Drinking water
- Ice cubes
- Cooking water
- Low sodium diets
- Auto batteries

- Weight loss programs
- Aquariums
- ♦ Plants

- Humidifiers
- Radiators
- ♦ And More!

## Particle Size Removal Range By Filtration Type These sizes of well-known objects and particulates Hair Cyst **Bacteria** illustrate the size of the micrometer (or micron) 75 pm 0.2 pm Far Infrared Rays X-Rays Ultra Violet Visible Near Infrared Light Spectrum Latex/Emulsion Smog Clouds and Fog Synthetic Drizzle Rain Mist Clay Silt Fine Sand Coarse Sand CO<sub>2</sub> C<sub>6</sub>H<sub>6</sub> A.C. Fine Dust Ammonium Chloride Fume Albumin Protein Molecule Alkali Fume Beach Sand Aqueous Salt Contact Sulfuric Mist Carbon Black Pulverized Coal Relative Metal Ion Paint Pigments Size of Insecticide Dust Plant Zinc Oxide Fume Visible to Eye Material Spores Colloidal Silica Ground Talc Sugar Molecule Spray Dried Milk Pollens Milled Flour Granular Activated Atmospheric Dust Atomic Pin Carbon Point Radii Asbestos Protozoan Cysts Endotoxin/Pryogen Red Blood Cell Diameter Viruses Bacteria Human Hair Microns 0.0001 0.001 0.01 10 100 1000 0.1 Membrane Microfiltration Type Ultrafiltration Reverse Osmosis Conventional Particle Filtration

ource: "Water Proccessing: Third Edition", Wes McGowan, Water Quality Association, 200

## Typical Removal Rates for **Thin-Film Composite** Membranes Arsenic 94% Barium 99% Flouride 93% **Nitrates** 87% **Nitrites** 87% Asbestos 99% Cadmium 98% Lead 99% Radium 80% Hexavalent Chromium 86% Cvanide 86% Copper 99% Mercury 91% Selenium 96% Trivalent Chromium 88%