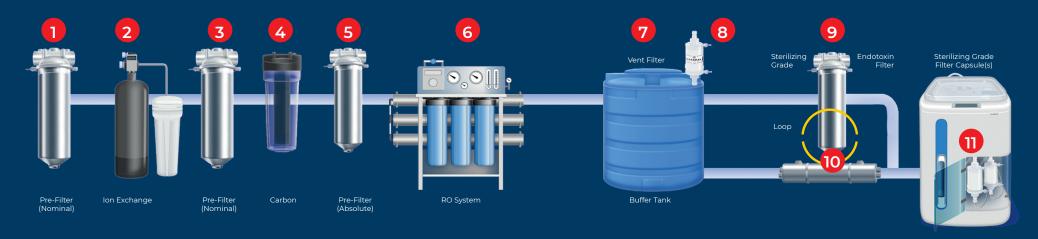


Water Treatment for Endoscope Reprocessing

What is this process doing step by step?



- Pre-filtration 1
 Large particulate & organic debris
- 2 Ion Exchange & Brine Tank Ion-exchange devices reduce the hardness by replacing magnesium and calcium (Mg²⁺ and Ca²⁺) with sodium ions
- Pre-filtration 2
 Particulate & debris removal
- Carbon Filtration
 Adsorption of systemic disinfectant chemicals
- Absolute filtration
 Fine (<1 micron absolute) filtration for fine particulate removal for protection of RO
- Reverse Osmosis (RO) System
 Removing dissolved contaminates (sodium ions), bacteria, fine particulate

- 7 Storage Vessel Large sealed water tank to act as buffer, often as RO may not be able to keep up with peak demand
- Tank Vent Filter
 Sterilizing grade vent filtration to protect tank water from bacteria and airborne particles
- 9 Sterilizing & Endotoxin Filtration
 Removing any bacteria and endotoxin within recirculating loop
- Ultra Violet (UV) Light System
 Virus reduction
- Final Rinse Water Filter (within Endoscope Washer Disinfector EWD)
 Final stage sterilizing grade filtration step to remove bacteria & particulate
 (typically forms part of AER system)