Ultrafiltration is a pressure driven membrane separation process that removes suspended or particulate matter (including colloids & silt) from water. Ultrafiltration is more reliable than conventional multimedia filtration that removes approx. 10 micron or larger matter. Ultrafiltration also efficiently removes bacteria and most viruses.

**Standard Features**
- UF modules (PVC)
- Stainless steel backwash pump
- 150 um flushable screen
- Schedule 80 PVC piping
- Microprocessor control panel
- Motor starters
- NEMA 12 enclosure
- Differential pressure switch
- Liquid filled pressure gauges (panel mount)
- Electrically actuated valves
- Flow meter

**Available Options**
- Chemically Enhanced Backwash (CEB)
- Feed/backwash oxidizer (dosing system)
- Membrane cleaning skid (CIP)
- 380-415V/3Ph/50Hz power supply
- Online turbidity monitor
- Stainless steel multi-stage feed pump
- Feed pump VFD
- PLC + HMI
- Filtrate (backwash) tank (HDPE)
- Pressure Transducers
- Blower (for backwash)
- Duplex 2205 screen (versus SS 316)

Pure Aqua supplies a full line of standard and fully customizable Ultrafiltration systems, all of which are engineered using advanced 3D computer modeling and process design software.
Industrial Ultrafiltration Systems
Capacity: 10,000 to 1,000,000 GPD

Ultrafiltration systems eliminate the need for clarifiers and multimedia filters. Standard design is based on a UF module with outside-in flow configuration which allows for less plugging, higher solids loading, higher flow area and easy cleaning.

Operation Specifications
- Power supply: 460V/3Ph/60Hz
- Turbidity < 50 max. 300 NTU
- TSS < 50 max. < 100 mg/L
- TOC < 10 max. < 40 mg/L
- COD max. < 60 mg/L
- pH 6-9 (2-11 cleaning)
- Temperature 25°C (max. 40°C)
- Cl₂ 0.5 ppm (2,000 cleaning)
- Backwash frequency 20-60 minutes

Applications
- RO pretreatment
- Drinking water treatment
- Process separation or recovery
- Tertiary wastewater or grey water treatment

<table>
<thead>
<tr>
<th>Model #</th>
<th>Filtrate</th>
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<th>Filtrate</th>
<th>Number of UF Modules</th>
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