Miller-Leaman is committed to filtering, treating, and purifying our most precious resource...WATER. With less than 1 percent of the world’s water being of fresh quality, we recognize the need to replenish and reuse our water supply. Some states have set optimistic goals for water reuse; Florida and California alone are expected to reuse over 1 billion gallons per day within the next few years.

Since 1991, Miller-Leaman and our strategic partners have been committed to investing in Research & Development with the goal of generating unique, innovative, and reliable filtration products. Our automatic Ultra-Pure UF Membrane Systems represent the newest such product.

The Ultra-Pure UF Membrane System was designed for Low Pressure, High Efficiency, Dead-End Filtration. With simplicity in mind, our turnkey systems are designed for easy installation and quick startup, efficient operation, and minimal maintenance. Equipped with our state-of-the-art menu-driven Maxim Backwash Controller, operation of the system is very user-friendly.

Our array of filtration products are used all over the world, in a variety of industries and applications. Whether it is with our new Ultra-Pure UF Membrane System or one of our other unique filtration products, we hope to be the solution to your next challenging filtration project. Call today to discuss your application.

APPLICATIONS:
- Waste and Effluent Treatment
- Recovery of Valuable Process Streams
- Water Purification – Removing Suspended Solids, Turbidity, Bacteria & Viruses
- Potable Water from Rivers, Ponds, Streams, etc.
- Water Pre-Treatment – RO, Seawater Desalination, Ion Exchange
- Wastewater Reuse from Many Industries - Food Processing, Textile, Mobile Emergency Water Purification, Process & Cooling Tower Make-up
- Machining & Grinding – Water Soluble Coolants
- Wash Water / Rinse Water Recycling
- Remove Haze Components from Juice, Wine, Beer (Clarification)
- Milk and Dairy Processing
- Replace Coagulation, Flocculation and Settling Process Media
- Partial Dewatering
- Landfill Leachate
- Treatment of Dye Effluents
- Surface & Ground Water Clarification
- Car Wash Effluent
Membrane Specifications:

- Configuration: Hollow Fiber (outside-in filtration)
- Operating Temperature: < 122°F
- Operating Pressure: < 15 PSI
- pH Range: 2 - 11
- Filtrate Turbidity: < 1 NTU / < 3 SDI
- Flux Rate: 45 GFD maximum (depends on feed water quality)
- Fiber Size: Outer Diameter 2.0mm (other sizes available)
- Surface Area: 460 square feet per membrane
- Membrane Casing: 8" Diameter x 60" Length
- Material: Hydrophilic Modified PAN (Optional PVDF Membranes)
- Operation: Dead-End Filtration with Air Scouring Backwash
- Electrical: 230/380/460/575V / 50/60Hz / 1 or 3 Phase

Ultra-Pure UF Systems are equipped with our state-of-the-art Maxim Backwash Controller; Allen Bradley or other PLC’s are optional.

System Specifications:

<table>
<thead>
<tr>
<th>Model*</th>
<th>Flow Rate**</th>
<th>~ Length</th>
<th>~ Width</th>
<th>~ Height</th>
<th>~ Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>ML-01</td>
<td>10 - 15 GPM</td>
<td>32&quot;</td>
<td>28&quot;</td>
<td>71&quot;</td>
<td>176 lbs.</td>
</tr>
<tr>
<td>ML-02</td>
<td>20 - 30 GPM</td>
<td>32&quot;</td>
<td>40&quot;</td>
<td>87&quot;</td>
<td>287 lbs.</td>
</tr>
<tr>
<td>ML-04</td>
<td>40 - 60 GPM</td>
<td>51&quot;</td>
<td>40&quot;</td>
<td>87&quot;</td>
<td>507 lbs.</td>
</tr>
<tr>
<td>ML-06</td>
<td>60 - 90 GPM</td>
<td>79&quot;</td>
<td>47&quot;</td>
<td>87&quot;</td>
<td>772 lbs.</td>
</tr>
<tr>
<td>ML-08</td>
<td>80 - 120 GPM</td>
<td>95&quot;</td>
<td>47&quot;</td>
<td>87&quot;</td>
<td>1,036 lbs.</td>
</tr>
<tr>
<td>ML-10</td>
<td>100 - 150 GPM</td>
<td>110&quot;</td>
<td>47&quot;</td>
<td>87&quot;</td>
<td>1,653 lbs.</td>
</tr>
<tr>
<td>ML-12</td>
<td>120 - 180 GPM</td>
<td>126&quot;</td>
<td>47&quot;</td>
<td>87&quot;</td>
<td>1,940 lbs.</td>
</tr>
<tr>
<td>ML-14</td>
<td>140 - 210 GPM</td>
<td>148&quot;</td>
<td>47&quot;</td>
<td>87&quot;</td>
<td>2,227 lbs.</td>
</tr>
<tr>
<td>ML-16</td>
<td>160 - 240 GPM</td>
<td>154&quot;</td>
<td>47&quot;</td>
<td>87&quot;</td>
<td>2,513 lbs.</td>
</tr>
<tr>
<td>ML-18</td>
<td>180 - 270 GPM</td>
<td>165&quot;</td>
<td>47&quot;</td>
<td>87&quot;</td>
<td>2,800 lbs.</td>
</tr>
<tr>
<td>ML-20</td>
<td>200 - 300 GPM</td>
<td>177&quot;</td>
<td>47&quot;</td>
<td>87&quot;</td>
<td>3,087 lbs.</td>
</tr>
</tbody>
</table>

* Systems can be manifolded to achieve higher flow rates
** Minimum and maximum flow rates depend on feed water quality