# Reverse Osmosis

## Net-Wrapped TMRO

<table>
<thead>
<tr>
<th>Model</th>
<th>Application</th>
<th>Description</th>
<th>Feed Spacer Thickness in. (mm)</th>
<th>Nominal Membrane Area ft² (m²)</th>
<th>Dimensions, in. (mm)</th>
<th>Max Pressure Drop per Element psi (bar)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TMRO 8040 NW</td>
<td>Pharma-Bev Water</td>
<td>FDA Compliant</td>
<td>0.031 (0.79)</td>
<td>400 (37)</td>
<td>40 (1016) 7.9 (201) 1.125 (28.6)</td>
<td>15 (1.0)</td>
</tr>
</tbody>
</table>

**Product Type:** Net-wrapped (no tail), Spiral Wound Element with Cross-Linked Fully Aromatic Polyamide Composite Membrane

**Materials Specifications:**
- Feed Spacers and Element Outer-Wrap: Polypropylene
- All Permeate Tubes, ATDs, lcs: Polysulfone
- Permeate Carrier: Proprietary
- Adhesives: Proprietary

**Operating Limits:**
- Maximum Operating Pressure, psi (bar): 800 (55.2)
- Maximum Operating Temperature, °F (°C): 122 (50)
- Maximum Cleaning Temperature, °F (°C): 122 (50)
- Acceptable pH Range (operating): 2.5-10.5
- Acceptable pH Range (short-term cleaning): 1.7-11.5
- Maximum Pressure Drop per Vessel, psi (bar): 60 (4.0)
- Maximum Oxidant Tolerance:
  - Free Chlorine continuous (ppm): 20
  - H₂O₂ short-term cleaning (ppm) < 77 °F (25°C): 1000

**Dimensions:**
(dimensions include Anti Telescoping Devices)

**Performance:** 10,200 gpd (38.6 m³/d) at 99.7% rejection

**Test Conditions:**
- Feed Water Pressure, psi (bar): 225 (15.5)
- Feed Water Temperature, °F (°C): 77 (25)
- Feed Water Concentration, mg/l as NaCl: 2,000
- Recovery Rate, %: 15
- Feed Water pH: 7

**Notice:**
1. Elements are preserved in sodium meta-bisulfite. Appropriate personal protective equipment should be worn when handling.
2. Toray accepts no responsibility for results obtained by the application of this information or the safety or suitability of Toray's products, either alone or in combination with other products. Users are advised to make their own tests to determine the safety and suitability of each product combination for their own purposes.
3. All data may change without prior notice, due to technical modifications or production changes.

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