The GE Water & Process Technologies MUNI NF series is engineered to provide a low pressure and cost effective nanofiltration alternative to standard RO treatment. The resulting product is virtually free of any harmful biological matter. Performance is characterized by hardness reduction, color removal, and organic pollutants reduction (such as the precursors to THM).

The MUNI NF membrane element is tested and certified by NSF international against NSF/ANSI Standard 61 for material requirements only.

The MUNI NF membrane is an element following a 100% Wet Test Quality Assurance.

---

**Table 1: Element Specification**

<table>
<thead>
<tr>
<th>Model</th>
<th>Membrane</th>
<th>Average permeate flow gpd (m³/day)¹²</th>
<th>Average MgSO₄ rejection¹²</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUNI-NF-400</td>
<td>Thin-Film Membrane (TFM*)</td>
<td>12,000 (45.4)</td>
<td>98.0%</td>
</tr>
</tbody>
</table>

¹ Average salt rejection after 24 hours of operation. Individual flow rate may vary ±20%.
² Testing conditions: 2,000ppm MgSO₄ solution at 110psi (760kPa) operating pressure, 77 °F, pH 7.5 and 15% recovery.

---

**Table 2: Dimensions and Weight**

<table>
<thead>
<tr>
<th>Model</th>
<th>Type</th>
<th>Dimensions, inches (cm)</th>
<th>Boxed Weight lbs (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUNI-NF-400</td>
<td>Female</td>
<td>40.0 (101.6) 1.125 (2.86) 7.9 (20.1)</td>
<td>32 (14.5)</td>
</tr>
</tbody>
</table>

---

**Table 3: Operating and CIP parameters**

- **Typical Operating Pressure**: 70-300psi (483–2,069kPa)
- **Typical Operating Flux**: 10-20GFD (15–35 LMH)
- **Maximum Operating Pressure**: 600psi (4,137kPa)
- **Maximum Temperature**: Continuous Operation: 113°F (45°C) Clean-In-Place (CIP): 104°F (40°C)
- **Minimum Crossflow**: 30gpm (6.8m³/h)
- **pH Range**: Continuous Operation: 3.0-9.0, Clean-In-Place (CIP): 2.0-11.0¹
- **Maximum Pressure Drop**: Over an element: 12psi (83kPa) Per housing: 50psi (345kPa)
- **Chlorine Tolerance**: 1,000+ ppm-hours, dechlorination recommended
- **Feedwater²**: NTU < 1 SDI < 5
- **Recommended single element recovery**: < 15 %

¹ Please refer to Cleaning Guidelines Technical Bulletin TB1194.
² SDI is measured on a non-linear scale using a 0.45-micron filter paper. Additionally, finer colloids, particulates and microorganisms that pass through the filter paper and not measured in the SDI test, will potentially foul the RO element. For performance consistency and project warranty, please use Winflows® projection software and consult your GE representative.

---

**Figure 1: High Flow Rate at Low Pressure Drop**

**Figure 2: Element Dimensions Diagram – Female**

---

Lenntech
info@lenntech.com Tel. +31-152-610-900
www.lenntech.com Fax. +31-152-616-289