

MUNI NF series

membrane elements for municipal drinking water plants

The SUEZ 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.

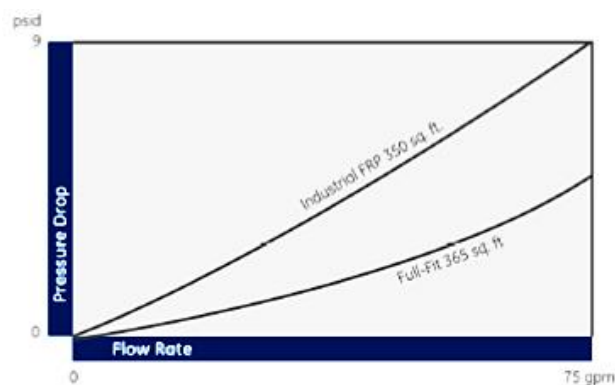


Figure 1: High Flow Rate at Low Pressure Drop

Table 1: Element Specification

| | | |
|-----------------|--|---|
| Membrane | Thin-Film Membrane (TFM*) | |
| Model | Average permeate flow gpd (m³/day) (1,2) | Average MgSO₄ rejection (1,2) |
| MUNI-NF-400 | 12,000 (45.4) | 98.0% |

(1,2) Average salt rejection after 24 hours of operation. Individual flow rate may vary ±20%.

(1,2) Testing conditions: 2,000ppm MgSO₄ solution at 110psi (760kPa) operating pressure, 77 °F, pH 7.5 and 15% recovery.

| | | | |
|--------------|---|-----------------------|------------------------|
| Model | Active area ft² (m²) | Outer wrap | Part number |
| MUNI-NF-400 | 400 (37.2) | Fiberglass | 1242400 |

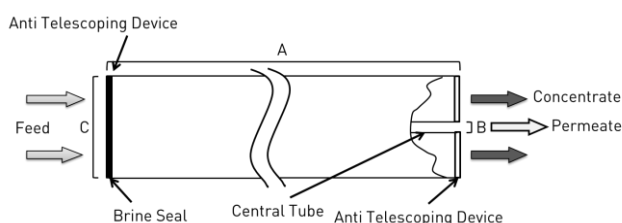


Figure 2 : Element Dimensions Diagram – Female

Table 2: Dimensions and Weight

| Model | Dimensions, inches (cm) | | | Boxed Weight lbs. (kg) |
|-------------|-------------------------|-----------------|---------------|------------------------------|
| | A | B | C | |
| MUNI-NF-400 | 40.0 (101.6) | 1.125 (2.86) | 7.9 (20.1) | 35 (15.9) |

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 (6.8m ³ /h) |
| pH Range | Continuous Operation: 3.0-9.0, Clean-In-Place (CIP): 2.0-11.0 (1) |
| Maximum Pressure Drop | Over an element: 12psi (83kPa) Per housing: 50psi (345kPa) |
| Chlorine Tolerance | 1,000+ ppm-hours, dechlorination recommended |
| Feedwater² | NTU < 1 SDI ₁₅ < 5 |
| Recommended single element recovery | < 15 % |

(1) Refer to Cleaning Guidelines Technical Bulletin TB1194.

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