



The Specialty Membrane Company

## PRODUCT SPECIFICATION

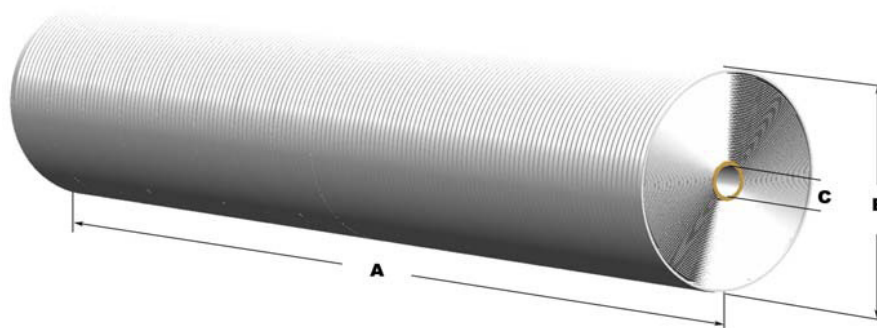
### 6.3" XN45 Nanofiltration TurboClean® Element

| Model                              | Permeate Flow<br>GPD (m <sup>3</sup> /day)* | Average Salt<br>Rejection (%) | Minimum Salt<br>Rejection (%) |
|------------------------------------|---------------------------------------------|-------------------------------|-------------------------------|
| <b>TurboClean® NF 6338-XN45-31</b> | 5,700 (20.8)                                | 95                            | 92                            |

\* Performance is based on the following test conditions: 2,000 ppm MgSO<sub>4</sub>, 110 psi, 77 °F (25 °C), 15% recovery, pH 8.0, 30 minutes operation. Individual element permeate flow may vary +/- 20%.

#### OPERATIONAL AND DESIGN DATA

|                                     |                                                            |
|-------------------------------------|------------------------------------------------------------|
| Membrane Type .....                 | XN45 Advanced Polypiperazine Amide Nanofiltration Membrane |
| Configuration .....                 | Spiral Wound, Sanitary Element                             |
| Active Membrane Area .....          | 225 ft <sup>2</sup> (20.9 m <sup>2</sup> )                 |
| Typical Applied Pressure .....      | 200 - 400 psi (14 - 28 bar)                                |
| Maximum Applied Pressure .....      | 600 psi (41 bar)                                           |
| Maximum Operating Temperature ..... | 122 °F (50 °C)                                             |
| Feed pH Range .....                 | 3 - 10 continuous                                          |
| Chlorine Tolerance .....            | <0.1 ppm                                                   |
| Maximum Feed Flow .....             | 70 GPM (15.8 m <sup>3</sup> /hr)                           |
| Maximum Pressure Drop .....         | 15 psi (1 bar) per element; 60 psi (4 bar) across housing  |



|                 |                                                                            |                             |                                     |
|-----------------|----------------------------------------------------------------------------|-----------------------------|-------------------------------------|
| Element Weight: | 33 lbs. (15 kg)                                                            |                             |                                     |
| Length (A):     | 38.00" (965 mm)                                                            | Diameter (B): 6.3" (160 mm) | Permeate Tube (C): 1.139" (28.9 mm) |
| Permeate Tube:  | Polysulfone UF Style tube; Interconnect and ATDs not included with element |                             |                                     |
| Feed Spacer:    | 0.031" thick diamond spacer                                                |                             |                                     |



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