



# PRODUCT SPECIFICATION

## 4" XN45 Nanofiltration Element Series

**LENNTECH**

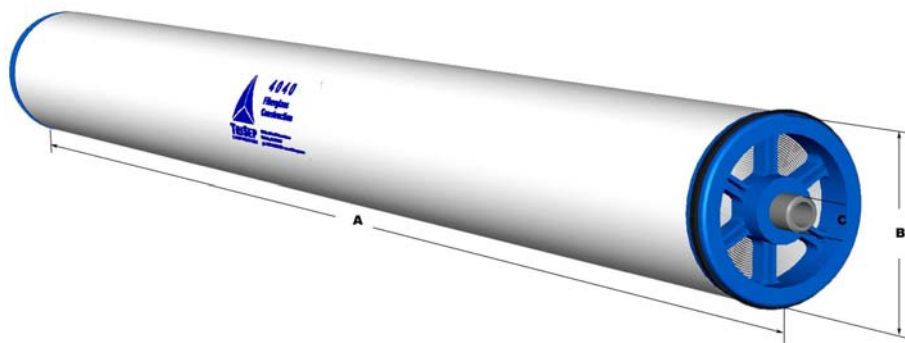
info@lennotech.com  
www.lennotech.com  
Tel. +31-152-610-900  
Fax +31-152-616-289

| Model         | Permeate flow<br>GPD (m3/day)* | Average Salt<br>Rejection (%) | Minimum Salt<br>Rejection (%) |
|---------------|--------------------------------|-------------------------------|-------------------------------|
| 4040-XN45-TSF | 2,000 (7.0)                    | 95.00                         | 92.00                         |

Performance is based on the following test conditions: 2,000.0 ppm MgSO<sub>4</sub>, 110.0 psi, 25°C, 15% recovery, pH 8.0, 30 minutes operation.

### OPERATIONAL AND DESIGN DATA

|                                            |                                                 |
|--------------------------------------------|-------------------------------------------------|
| Membrane Type.....                         | XN45 Polyamide Advanced Nanofiltration Membrane |
| Configuration.....                         | Spiral Wound, Fiberglass Outer Wrap             |
| Active Membrane Area.....                  | 85 ft <sup>2</sup> (7.9 m <sup>2</sup> )        |
| Recommended Applied Pressure.....          | 40 - 200 psi (3 - 14 bar)                       |
| Maximum Applied Pressure.....              | 600 psi (41 bar)                                |
| Recommended Operating Temperature.....     | 35 - 113°F (2 - 45°C)                           |
| Feedwater pH Range.....                    | 2 - 11 continuous                               |
| Chlorine Tolerance.....                    | 0.5 ppm nominal, 1.0 ppm max                    |
| Maximum Feed Flow.....                     | 20 GPM (4.5 m <sup>3</sup> /hr)                 |
| Minimum Brine Flow/Permeate Flow Ratio.... | 5:1                                             |
| Maximum SDI ( 15 minutes) .....            | 5.0                                             |
| Maximum Turbidity.....                     | 1 NTU                                           |



Element Weight : 15 (7)  
Length (A) : 40.0 (1,016) Diameter (B) : 4.0 (101) Permeate Tube (C) : 0.75 (19.1)  
Units in pounds and inches, units in paranthesis in kilograms and millimetres.  
Mechanical Configuration: Filmtec Style Core Tube  
Feed Spacer: 0.031" thick diamond spacer

\* Permeate flow is clean water flux at standard conditions above. Not applicable for all feedwater conditions. Individual element's permeate flow may vary +/- 15%.



**Engineered Membrane  
SOLUTIONS**

**LENNTECH**

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