

ZeeWeed* Ultrafiltration (UF)

model: ZW700B-10060, with end-caps

description and use

As a pioneer of membrane technology, SUEZ leverages decades of research, development, and operational experience to offer the most advanced ultrafiltration technology in the market.

The ZeeWeed 700B-10060 (Figure 1) line of products contains our SevenBore* fiber technology with an inside-out flow orientation. The SevenBore fiber is regarded as the most robust polyethersulfone (PES) product on the market.

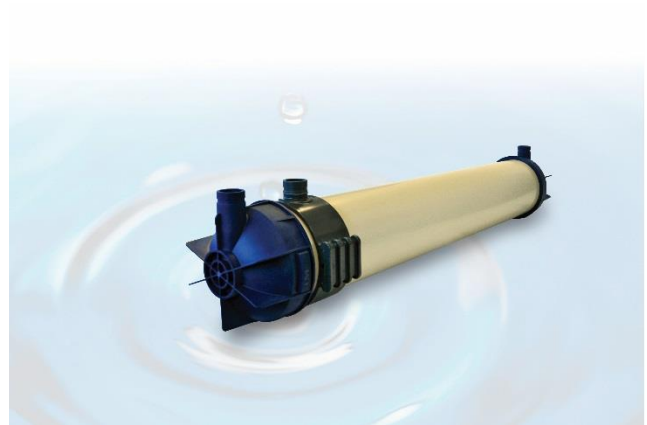


Figure 1: ZW700B-10060

product specifications element data

| Description | ZW700B-10060/UF8/7B/S/0.9/60 |
|----------------------------------|-------------------------------------|
| Material housing | PVC |
| Material endcap | GFR-Polyamide |
| Housing length | 1500 +0/-4 mm (59.1 +0/- 0.16 inch) |
| Element length | 1687 +/-1.5 mm (66.4 +/- 0.06 inch) |
| Distance feed connectors | 1599 +/-1.5 mm (63 +/- 0.06 inch) |
| Distance feed element center | 179 +/-1.0 mm (7.05 +/- 0.04 inch) |
| Distance head-permeate connector | 191 +/-1.0 mm (7.52 +/- 0.04 inch) |
| Permeate connection OD | 2" Victaulic (2" Victaulic) |
| Feed connection OD | 2" Victaulic (2" Victaulic) |
| Housing OD | 250 mm (10 inch) |
| Element OD at endcap | 321 mm (13 inch) |
| Weight | 31.5 kg (69 lbs.) |

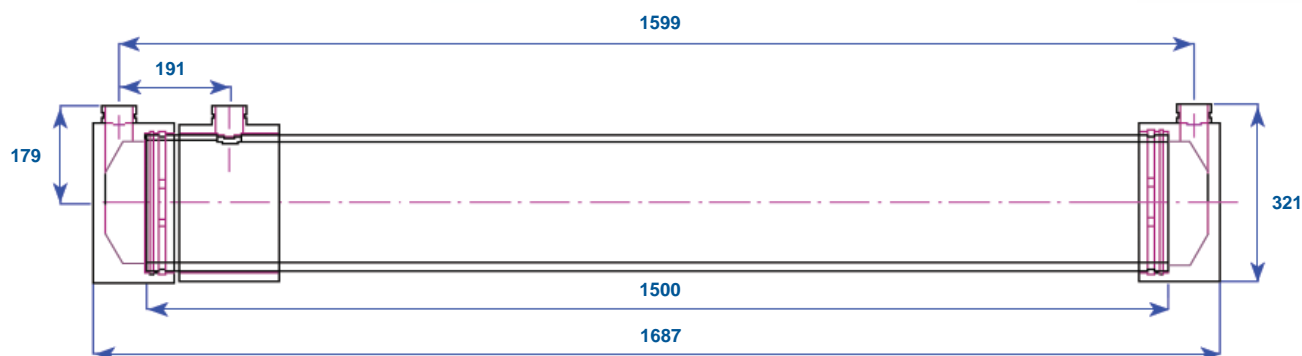


Figure 2: ZW700B-10060 Dimensions

typical process conditions

| Description | Measurement |
|---|----------------------------------|
| Maximum temperature | 40°C (104°F) |
| Max pressure | 5 bar (72.5 psi) |
| Typical Trans Membrane Pressure (TMP) operation | <1.0 bar (14.5 psi) |
| TMP maximum | 2.5 bar (36 psi) |
| Backwash/forward flush maximum | 250 l/m ² h (150 gfd) |
| pH range during operation | 2 to 11 |

membrane type

| Description | Measurement |
|-------------------|--|
| Material | Modified PES |
| Type | SevenBore |
| Diameter bores ID | 0.9 mm (0.04 inch) |
| Diameter fiber OD | 4.0 mm (0.16 inch) |
| Area | 60 m ² (646 ft ²) |

cleaning

| Description | Measurement |
|--|-------------------------------------|
| Cleaning pH range | 1.0-13.0 |
| Disinfecting Chemicals: Hypochlorite (NaOCl) Hydrogen peroxide | 50 to 200 ppm 100 to 200 ppm |

general properties

- UF membrane - for optimal removal of particulates, bacteria and viruses
- PES membrane fibers with 7 bores - provides high mechanical strength (>10x that of single fibers) and chemical resistance
- Inside-Out filtration – eliminates air scouring step and additional related equipment

storage and handling

All elements are filled with glycerin when new, which is part of the fiber manufacturing and preservation process. Elements must be stored in a dry and normal ventilated location, away from any sources of heat, ignition and direct sunlight in the original packing. The storage temperature must be between 5°C and 35°C (45°F to 91°F).

contact us

If you would like more information about SUEZ's Ultrafiltration, please contact your SUEZ account representative or visit suezwatertechnologies.com.

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