

# ZeeWeed\* ultrafiltration (UF)

Model: ZW700B-9060

Full model name: ZW700B-9060/UF10/7B/XA/0.8/55

## 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-9060 (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.

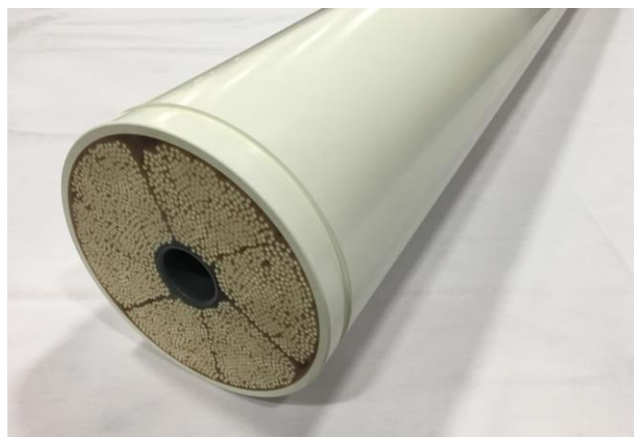


Figure 1: ZW700B-9060

## product specifications element data

Description	ZW700B-9060/UF10/7B/XA/0.8/55
Material housing	PVC
Housing length	1537.5 +/-1.0 mm (60.5 +/- 0.04 inch)
Permeate connection ID	42.6 +/- 0.5 mm (1.7 +/-0.02 inch)
Element OD	220 mm (8.66 inch)
Weight	24 kg (53 lbs.)

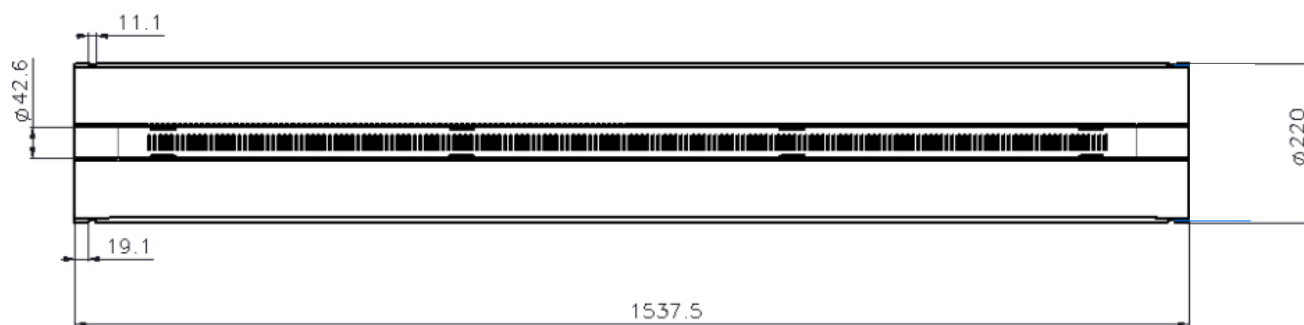


Figure 2: ZW700B-9060 Dimensions

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## typical process conditions

Description	Measurement
Maximum operating temperature	40°C (104°F)
Max. Operating Pressure, installed vertically with end-caps	5 bar (72.5 psi)
Max. Operating Pressure, installed horizontally in housing	See specifications of membrane housing supplier
Trans Membrane Pressure (TMP), typ. operation	<1.0 bar (<14.5 psi)
TMP maximum	2.5 bar (36 psi)
Backwash/forward flush	250 l/m <sup>2</sup> h (150 gfd)
pH range during operation	2 to 11

## membrane type

Description	Measurement
Material	PES
Type	SevenBore
Diameter bores ID	0.8 mm (0.03 inch)
Area	55 m <sup>2</sup> (592 ft <sup>2</sup> )



Figure 3: ZW700B-9060 Spacer Ring

## cleaning

Description	Measurement
Cleaning pH range	1.0-13.0
Disinfecting Chemical: 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
- Modules can be mounted vertically, or installed horizontally in pressure vessels. If used in horizontal orientation, two spacer rings per module are required (figure 3), along with any permeate interconnectors
- Contact SUEZ for detailed drawings and assistance with sizing and ordering element housings

## 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 [www.suezwatertechnologies.com](http://www.suezwatertechnologies.com).