

ZeeWeed* 700B-9060 high temperature ultrafiltration membrane

FACT SHEET

Model: ZW700B-9060/UF8/7B/H/0.9/45

Description and Use

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

The ZeeWeed 700B-9060HT (Figure 1) contains our SevenBore* fiber technology with an inside-out flow orientation. The SevenBore fiber is regarded as the most robust polyether sulfone (PES) product on the market.

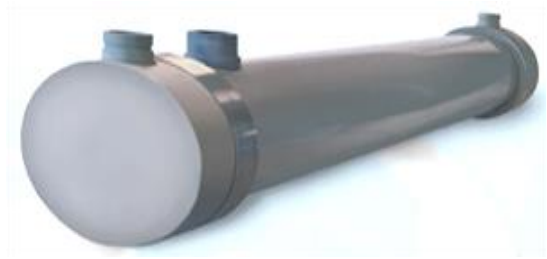


Figure 1: ZW700B-9060HT

Product Specifications Element Data

Description	ZW700B-9060HT
Material housing	PVC-C
Material endcap	PP
Housing length	1524 +/- 1.0 mm (59 +/- 0.04 inch)
Element length**	1713 +/- 1.5 mm (67 +/- 0.06 inch)
Distance to feed connector**	1626 +/- 1.5 mm (64 +/- 0.06 inch)
Distance to feed element center	166.5 +/-1.0 mm (7 +/- 0.04 inch)
Distance to feed permeate connector	211 +/-1.5 mm (8 +/- 0.06 inch)
Permeate female ID	1 ½" BSP
Feed/reject OD	2" Victaulic
Housing OD	225 mm (9 inch)
Element OD at endcap	297 mm (12 inch)
Weight	23 kg (51 lbs.)

**Without screw ends (provided separately)

Typical Process Conditions

Description	Measurement
Maximum operating temperature	60° C (140°F)
Maximum operating pressure	5 bars (72.5 psi)
Trans membrane pressure (TMP) operation	<1.0 bar (<14.5 psi)
TMP maximum	2.5 bar (36 psi)
Backwash/forward flush	250 l/m ² h (150 gfd)
Permeate flow at 100 l/m ² h	4 m ³ (18 gpm)
pH range during operation	2 to 11

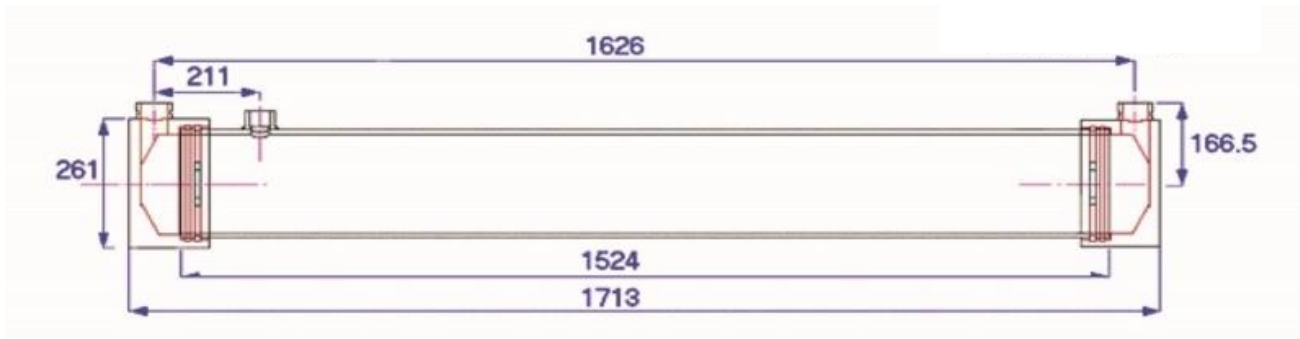


Figure 2: ZW700B-9060HT Dimensions

Membrane Type

Description	Measurement
Material	PES
Type	SevenBore
Diameter bores ID	0.9 mm (0.04 inch)
Diameter fiber OD	4.0 mm (0.16 inch)
Area	45 m ² (485 ft ²)

Cleaning

Description	Measurement
Soaking time during cleaning	5 minutes
Cleaning pH range	1.0-13.0
Disinfecting Chemical:	
Hypochlorite (NaOCl)	50 to 200 ppm
Hydrogen Peroxide (H ₂ O ₂)	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).