



**filtration**

**Technical  
datasheet**

# **WED200 UF150**

Hollow fiber ultrafiltration element for water and  
wastewater applications

# WED200 UF150

## General Information

The WED200 UF150 ultrafiltration element is used for potable water production, RO pretreatment, municipal and industrial wastewater treatment. This element is designed for installation inside 8" pressure vessels in new or existing installations. These elements excel in removing turbidity, suspended solids, and virus and bacteria. They offer outstanding pH and chlorine resistance, excellent mechanical strength of the fibers, and improved fouling behaviour compared to existing ultrafiltration membranes.

### Membrane characteristics

Membrane material	Modified PES
Membrane fiber inner diameter	0.8 mm (0.031")
Pore size	0.02 µm
MWCO <sup>1</sup>	150 kDa
Filtration mode	Inside-Out; Horizontal
Operation mode	Dead-end

## Operating Conditions <sup>2</sup>

Typical flux	50 – 100 l/m <sup>2</sup> /h (30 – 60 gfd)
Backwash flux	100 – 250 l/m <sup>2</sup> /h (60 - 150 gfd)
Max. system pressure <sup>3</sup>	Refer to specifications of pressure vessel supplier
Max. transmembrane pressure <sup>3</sup>	3 bar (44 psi)
Max. backwash pressure <sup>3</sup>	3 bar (44 psi)
Max. active chlorine concentration	500 ppm @ pH>10
Max. cumulative active chlorine exposure	250,000 ppm-hours @ pH>10
Max. particle size	200 µm
Max. TSS	100 ppm
Max. turbidity	50 NTU
Max. Temperature during operation & cleaning	40°C (104°F)
pH range during operation	2-12
pH range during cleaning	1-13

<sup>1</sup> Molecular Weight Cut Off (MWCO) is an estimation as it depends on size, shape, charge and polarity of the compound being tested, as well as test conditions. Measured with dextran.

<sup>2</sup> The limitations shown here are for general use. The values may be more conservative for specific projects to ensure the best performance and longest life.

<sup>3</sup> Maximum pressures at 20°C (68°F).

# WED200 UF150

## Module Specification

### Materials of Construction

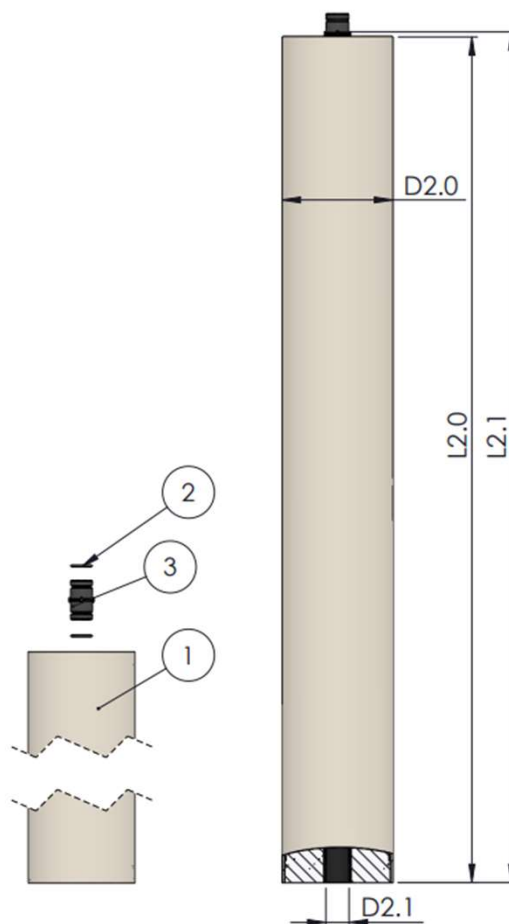
Housing	PVC-U
Internals	ABS, PP, PE
Potting	Epoxy resin

### Dimensions

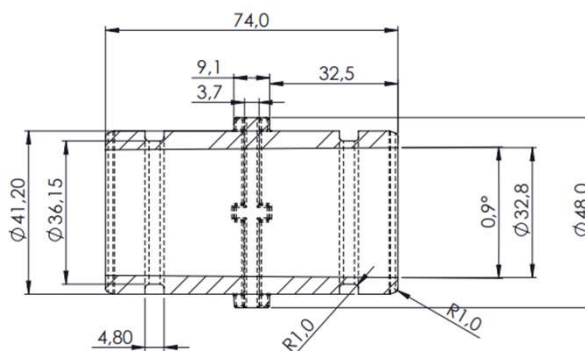
Membrane Surface Area	41 m <sup>2</sup>
L2.0	1528 mm (60.16")
L2.1	1537 mm (60.52")
D2.0	200 mm (7.87")
D2.1	42 mm (1.65")

### Assembly Components

(1)	WED200 UF150 Module
(2)	O-ring ISO3601 220 34.52x3.53
(3)	Permeate interconnector PVC-U



## Permeate interconnector



### Available Set (Components 1-3)

### WED200 UF150 Set

Set-Code	SETUF0026
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# WED200 UF150

## Storage Information

New modules in original packaging can be stored for max. 1 year from shipping date in a dry place, protected from sunlight or any heat source, at temperatures between 1 and 40°C (33 and 104°F);

Ex-factory storage solution: 84wt% water, 15wt% glycerin and 1wt% sodium metabisulfite;

## Weight Information

### Weight

Dry weight Module including assembly components	33.5 kg (74 lbs)
Filled Module including assembly components	74.5 kg (164 lbs)

## Shipping Information

Each module is individually packed in a vacuum sealed plastic bag. For small quantities, modules and accessories are shipped in cardboard boxes:

- Shipping weight per module: 38 kg (84 lbs.);

For large shipments, modules are loaded in a wooden crate with a max. of 14 modules per crate:

- Crate dimensions: 100 x 126 x 173 cm; 40 x 50 x 68 in (L x W x H);
- Shipping weight per crate (14 modules): 665 kg (1466 lbs.)

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