

# ZeeWeed\* pressurized ultrafiltration

## model ZW1500-SW

### description and use

As a pioneer of membrane technology, SUEZ leverages decades of research, development, and operational experience in developing the most advanced pressurized ultrafiltration technology in the desalination market, ZeeWeed 1500-SW. ZeeWeed systems are proven to consistently outperform conventional filtration technology while meeting or exceeding regulatory requirements, regardless of source water quality.

### typical applications

Versatile and reliable, the pressurized ZeeWeed 1500-SW has been optimized for Seawater applications including required maintenance and recovery cleans, operational sequences and low levels of required coagulation due to seawater application flux optimization. ZeeWeed Seawater membranes produce superior water quality and are virtually unaffected by variable seawater bio-foulant demands & HAB events.

### general properties

- 0.02  $\mu\text{m}$  nominal pore diameter - for optimal removal of particulates, bacteria and viruses
- PVDF hollow fiber membrane - provides high mechanical strength and chemical resistance
- Outside-in filtration - provides uniform flow distribution and high solids tolerance



### storage and handling

Modules may be stored in the original factory packaging for up to 1 year prior to installation. Modules must be stored between 5°C and 35°C (41°F to 95°F). Do not expose the membrane module to direct sunlight (UV light).

### safety precautions

A Material Safety Data Sheet containing information about this product is available on request.

Find a contact near you by visiting [www.suezwatertechnologies.com](http://www.suezwatertechnologies.com) and clicking on "Contact Us."

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## product specifications

Specification	Measurement
<b>Model</b>	ZeeWeed 1500-SW
<b>Module part number</b>	3132307
<b>Nominal membrane surface area</b>	55.7 m <sup>2</sup> (600 ft <sup>2</sup> )
<b>Max shipping weight<sup>1</sup></b>	32 kg (70 lb)
<b>Lifting weight<sup>2</sup></b>	30-36 kg (65-80 lb)
<b>Membrane material</b>	PVDF
<b>Nominal pore size</b>	0.02 micron
<b>Nominal fiber diameter</b>	OD: 1.1 mm, ID: 0.66 mm
<b>Flow path</b>	Outside-in
<b>Housing material</b>	PVC housing with Noryl caps

<sup>1</sup> Packaged

<sup>2</sup> Will vary with solids accumulation

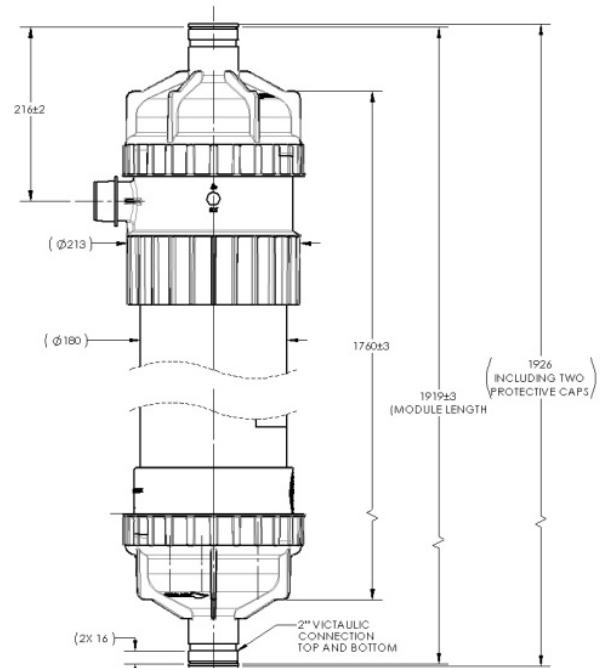
Module Dimensions		
Connections:	Height	Pipe diameter
Permeate: Victaulic	1920 mm	180 mm
Feed: Victaulic <sup>3</sup>	(75.6 in)	(7.1 in)
Reject: Victaulic <sup>3</sup>		

<sup>3</sup>Module available with compression permeate and/or threaded reject connection(s)

## operating parameters

Parameters	Item Description	Measurement
<b>Performance</b>	Flow range	45 – 180 m <sup>3</sup> /day (8-33 gpm)
<b>Operating conditions</b>	Max shell inlet pressure	379 kPa (55 psi)
	TMP range	0-276 kPa (0-40 psi)
	Max temperature	40°C (104°F)
	Operating pH	5.0-10.0
	Max air scour flow	8.5 m <sup>3</sup> /h (5 dcfm)
	Max backwash flow	1.8 m <sup>3</sup> /hr (8 gpm)
<b>Cleaning</b>	Cleaning pH range	2.0-12.0
	Max chlorine concentration per cleaning	1,000 mg/L (as NaOCl) <sup>4</sup>

<sup>4</sup>NOTE: Higher concentrations are possible depending on feedwater and pH.



All lengths in mm

