

ZeeWeed* Pressurized Ultrafiltration

Model ZW1500

Description and Use

As a pioneer of membrane technology, GE leverages decades of research, development, and operational experience in developing the most advanced pressurized ultrafiltration technology in the market, ZeeWeed 1500. 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 is ideally suited for use in numerous applications including drinking water treatment, tertiary filtration and RO pretreatment for brackish water and seawater. Compared to granular filter media, ZeeWeed membranes produce superior water quality and are virtually unaffected by variable raw water quality - all at a cost comparable to conventional filtration technology.

General Properties

- 0.02 μm 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

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SHINSAN Co., Ltd

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.

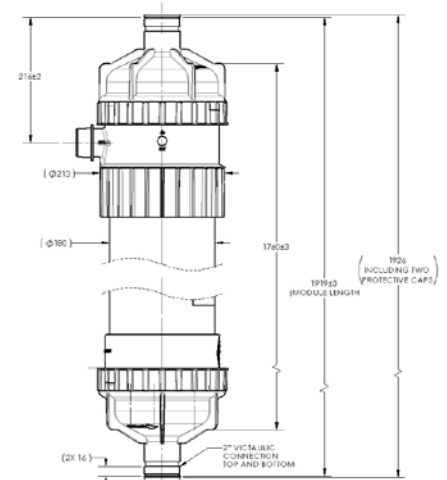
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Product Specifications

| | |
|--|--|
| Model | ZeeWeed 1500-600 |
| Nominal membrane surface area | 55.7 m ² (600 ft ²) |
| Max shipping weight¹ | 32 kg (70 lb) |
| Lifting weight² | 30-36 kg (65-80 lb) |
| Membrane material | PVDF |
| Nominal pore size | 0.02 micron |
| Nominal fiber diameter | OD: 1.1 mm, ID: 0.66 mm |
| Flow path | Outside-in |
| Housing material | PVC housing with Noryl caps |

¹ Packaged

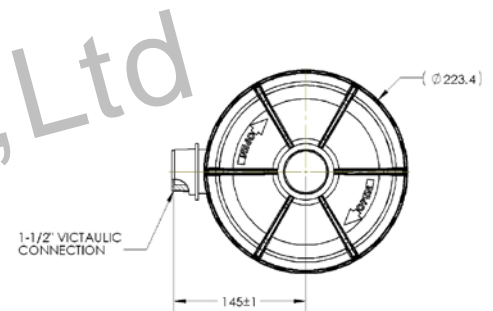
² Varies with solids accumulation



All lengths in mm

| Module Dimensions | | |
|--|-----------------|----------------------|
| Connections: Permeate/Feed/Reject | Height | Pipe diameter |
| Victaulic/Victaulic/Victaulic ³ | 1920 mm (5.6 m) | 100 mm (7.1 in) |

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



Operating Parameters

| | | |
|-----------------------------|-----------------------------------|---|
| Performance | | |
| | Flow range | 45 – 180 m ³ /day (8-33 gpm) |
| Operating conditions | | |
| | 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 | 5.1 m ³ /h (3 dcfm) |
| | Max backwash flow | 1.8 m ³ /hr (8 gpm) |
| Cleaning | | |
| | Cleaning pH range | 2.0-12.0 |
| | Max chlorine concentration | 1,000 mg/L (as NaOCl) ⁴ |

⁴ NOTE: Higher concentrations are possible depending on feedwater and pH.