

PolyCera® Hydro 100 – Ultrafiltration Specifications

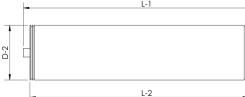
Model Number Size			Hydro100XB-1812- 32SW-TWM 1812		Hydro100XB-2540- 32SW-TWM 2540		Hydro100XB-4040- 32SW-TWM 4040		Hydro100XB-8040- 32SW-FRF 8040	
Active Area	<i>m</i> ²	(ft²)	0.25	(2.7)	2.2	(24)	6.9	(72)	26.3	(283)
Weight	kg	(lb)	0.45	(1)	1.8	(4)	3.5	(8)	29	(13)
Outer Wrap		Таре		Таре		Таре		Fiberglass		
Endcap			Male		Male		Male		Female	
Standard crossflow gpm		3 - 5		5 - 10		10 - 25		15 - 100		
D-1	ст	(in)	1.71	(0.67)	1.90	(0.75)	1.90	(0.75)	2.86	(1.13)
D-2	ст	(in)	4.6	(1.80)	6.1	(2.40)	10.2	(4.00)	20.3	(8.00)
L-1	ст	(in)	30.48	(12.00)	101.6	(40.00)	101.6	(40.00)	NA	
L-2	ст	(in)	29.8	(11.75)	96.1	(37.93)	96.1	(37.93)	101.6	(40.00)

Hydro 100 Elements - 32 mil Spiral Wound

Note: All element dimensions have specified tolerances of

+0.00/-0.06"

Operating Instructions



1.0 - 12.0

< 2 ppm

 $\leq 5 \text{ mg/L}$

 $\leq 10 \text{ NTU}$

125 µm

8.3 bar (120 psi)

2.1 bar (30 psi)

1.7 bar (25 psi)

30 seconds

2 minutes

5°C - 50°C (41°F - 122°F)

0.34 bar - 1.65 bar (5 psi - 24 psi)



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Flushing

 Prior to use, soak element for 24 hours with DI water then flush for at least 30 minutes in single-pass mode.

Installation

- Elements can be mounted vertically or horizontally
- When mounted vertically, it is recommended to orient feed to flow from top to bottom
- Use water or glycerin to lubricate seal

Operation

- Continuous pH range:
- Continuous temperature range:
- Continuous free chlorine:
- Maximum applied feed pressure:
- Maximum transmembrane pressure (TMP):
- Design axial pressure drop per element:
- Maximum free oil tolerance:
- Maximum feed turbidity:
- Recommended pre-filter:

Backwashing

- Maximum backwash TMP:
- Standard backwash duration:
- Maximum backwash duration:

Note: Increased crossflow during backwash enhances cleaning efficacy

ning efficacy



Chemical Cleaning & Exposure Guidelines

Water Planet recommends the use of our proprietary cleaning chemicals for best results. The water for cleanin-place (CIP) should be deionized for best performance. If other cleaning chemicals are used, please follow guidelines below:

Maximum Exposure (intermittent, during cleaning)

• Maximum cleaning temperature:

Conventional Cleaning Chemicals

- Citric Acid:
- Sodium Hydroxide:
- NaOCI Exposure Instantaneous:
- Peroxide/Ozone:
- Other cleaning chemicals:

85°C (185°F) at 2.0 < pH < 10.0 **

 \leq 2% or 0.1 Normal (pH > 2.0) \leq 4% or 1.0 Normal (pH < 13.5) \leq 100 ppm @ pH > 11 None Consult Water Planet

Handling & Storage

Prior to use

- Recommended storage temperature: 5°C 20°C (41°F 68°F). Do not freeze element.
- Handle with care. Damage to elements/end-caps/ATDs can compromise performance.
- It is recommended to store elements wet and horizontally. Whenever possible, store elements in original packaging. Drying can damage membrane surface and compromise performance.
- Membrane elements should be stored in dry, dark, and ventilated conditions.

After use

Use standard CIP procedure to clean feed and filtrate from the elements prior to shut down. Then perform element preservation as recommended below:

<u>1 - 7 days</u>:

Sanitize element by flushing with 10 ppm bleach and adjust to pH 11 for 30 minutes. Fill up element and housing with fresh 1 ppm bleach solution, seal the housing and store.

> 7 days (long-term storage):

- Contact Water Planet for application specific long-term preservation procedures.
- * Consult Water Planet for application specific operating parameters and chemical compatibilities beyond those described
- ** If pH > 10, temperature of fluid must be $< 45^{\circ}C$

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