

PolyCera[®] Titan 70 – Ultrafiltration Specifications

Model Number			Titan70XB-1812- 80SM-TWM		Titan70XB-2540- 80SM-TWM		Titan70XB-4040- 80SM-TWM		Titan70XB-8040- 80SM-FRF	
Size			1812		2540		4040		8040	
Active Area	<i>m</i> ²	(ft²)	0.12	(1.3)	1.21	(13)	3.5	(38)	15.2	(164)
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 - 30		30 - 150		
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)

Titan 70 Spiral Monolith® Elements

Note: All element dimensions have specified tolerances of

+0.00/-0.06"

Operating Instructions

Flushing Prior to use, soak element for 24 ٠ hours with DI water then flush for at least 30 minutes in single-pass mode.

Installation

- Elements can be mounted vertically or horizontally ٠
- When mounted vertically, it is recommended to orient feed to flow from top to bottom ٠

D-2

Use water or glycerin to lubricate seal ٠

Operation

- Continuous pH range: ٠
- Continuous temperature range: ٠
- Free chlorine: ٠
- Maximum applied feed pressure:
- Maximum transmembrane pressure (TMP):
- Design axial pressure drop per element: ٠
- Maximum free oil tolerance:
- Maximum total suspended soilds: ٠
- Recommended pre-filter: ٠

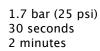
Backwashing

- Maximum backwash TMP: ٠
- Standard backwash duration: ٠
- Maximum backwash duration: ٠

Note: Increased crossflow during backwash enhances cleaning efficacy

1.0 - 13.55°C - 70°C (41°F - 158°F) **Consult Water Planet** 8.3 bar (120 psi) 2.1 bar (30 psi) 0.07 bar - 0.8 bar (1 psi - 12 psi) $\leq 500 \text{ mg/L}$ $\leq 200 \text{ mg/L}$ 150 µm

L-2





2



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:
- Peroxide/Ozone:
- Other cleaning chemicals:

 \leq 2% or 0.1 Normal (pH > 2.0) \leq 4% or 1.0 Normal (pH < 13.5) Consult Water Planet

85°C (185°F) at 2.0 < pH < 10.0 **

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.

None

Consult Water Planet

• 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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