PolyCera® HYDRO Ultrafiltration

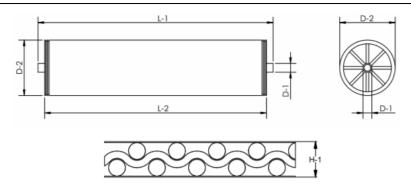


HYDRO-UF-250-32

Performance & Operating Parameters		Cleaning & Chemical Exposure Guidelines	
Membrane Material	Hydro	Max Backwash Pressure	1.7 bar
Nominal Pore Size/MWCO	50 nm/250 kDa	Backwash Flux	40 - 240LMH
Operating pH Range	1 - 12.0	Standard Backwash Duration	30 seconds
Operating Temperature Range	5 - 45°C	Max Backwash Duration	120 seconds
Max Inlet Pressure	8.3 bar	Max Cleaning Temperature	70°C @ 1 <ph<10< td=""></ph<10<>
			50°C @ pH > 10.0
Max Pressure Drop Per	1.6 bar	Max Cleaning pH	1 <ph<13.5 50℃<="" @="" td=""></ph<13.5>
Element			1 <ph<10.0 70°c<="" @="" td=""></ph<10.0>
*Max Free Oil & Grease	≤50 mg/L	Hydrochloric Acid	≤0.4% (pH > 1.0)
*Max Total Suspended Solids	≤100 mg/L	Citric Acid	≤20% (pH > 1.0)
Continuous Free Chlorine	≤5.0 mg/L	Sodium Hydroxide	≤4% (pH < 13.5)
Typical Operating Flux	20 - 200LMH	Free Chlorine	100 ppm/300,000 ppm hour
		Instantaneous/Total	
Recommended Pre-Filter	75μm	Peroxide/Ozone	Not compatible
Notes	Increased crossflow during backwash enhances cleaning efficacy;		
	Backwash flux should be 1.5 to 2 times of operating flux;		
	*Max Free Oil & Grease/ Max Total Suspended Solids means the max concentration at		
concentration side. It's dependent on raw feed water quality and design recover			nd design recovery rate.

Elements

Model	Hydro-UF-250-32-4040	Hydro-UF-250-32-8040		
Filter Area m2 (ft2)	6.7 (72.1)	28.6 (307.8)		
Weight kg (lbs)	3.5 (7.7)	13.0 (28.7)		
Outer Wrap	Tape/FRP	FRP		
Endcap	Male	Female		
Recommend crossflow (m3/h)	4.0	17.0		
Filtrate flowrate (m3/h)	1.7	7.3		
Permeate connection D-1 cm(in)	1.90 (0.75)	2.86 (1.125)		
Element diameter D-2 cm(in)	10.2 (4.00)	20.3 (8.00)		
Element length (male) L-1 cm(in)	101.6 (40.00)	N/A		
Element length(female) L-2 cm(in)	96.1 (37.93)	101.6 (40.00)		
Feed Spacer Size H-1 mm(mil)	0.81 (32)	0.81 (32)		
Notes	*Testing condition: de-ionized water, 25°C, 1.7 bar (25 psi) transmembrane			
	pressure			
	Actual results will vary depending	Actual results will vary depending on feed water quality and operation conditions		
	**All element dimensions have sp	**All element dimensions have specified tolerances of +0.00/-0.06"		



Handling & Storage Instructions

New Element Handling & Storage Guidelines

- Recommended storage temperature: ≥5°C (41°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 environmental conditions.

Installation & Initial Use Guidelines

- Prior to use, soak element for 24 hours with portable water then flush for at least 30 minutes.
- Elements can be mounted vertically or horizontally.
- Use water or glycerin to lubricate seal.

After Use Storage & Preservation Guidelines

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

- 1–7 days: 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.
- 1 week to 6 months: Fill up element and housing with 0.3% Saniclean* solution, seal the housing and store. Every four weeks drain the Saniclean solution from the system and flush with clean water. Refill the element and housing with 0.3 % Saniclean solution, seal the housing and store. If Saniclean solution is not available, use 0.2% sodium azide solution or 45% glycerin solution instead.
- More than 6 months: Please Contact PSP.US, Inc. for further information.

PSP.US, Inc.

721 S Glasgow Ave. Unit D Los Angeles, CA 90301 HYDRO-UF-250-32

^{*}Saniclean is a USDA accepted, low-foaming acid anionic rinse product made by Five Star Chemicals & Supplies, Inc. (Colorado, USA).