

ROMICON® XM50 3" Hollow Fiber Cartridges

Industrial Hollow Fiber Ultrafiltration Module for Wastewater Treatment

PRODUCT DESCRIPTION

Membrane Chemistry:	Acrylonitrile co-polymer
Membrane Type:	XM
Molecular Weight Cut-off:	50,000 Dalton (nominal)
Housing Construction:	Polysulfone
Seal:	Epoxy

PRODUCT SPECIFICATIONS

Part Number	Model	Active Membrane Area ft ² (m ²)
0720091	HF, 3025-15.0-45-XM50	15.0 (1.4)
0720126	HF, 3043-26.5-45-XM50	26.5 (2.5)

OPERATING AND DESIGN INFORMATION*

Maximum Inlet Pressure:	30 psi @ 77°F (2.1 bar @ 25°C)
Maximum Operating Temperature (at pH 8.0):	113°F (45°C)
Maximum Permeate Side Back Pressure:	20 psi (1.4 bar)
Maximum Feed Side Pressure Drop:	25 psi @ 113°F (1.7 bar @ 45°C)
Allowable pH:	1.5 – 13.0 @ 113°F (45°C)

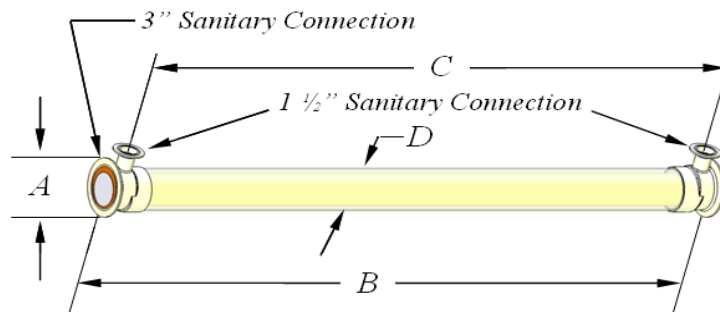
*Consult KSS Process Technology Group for specific applications.

FEED FLOW VS. PRESSURE DROP

Circulation Flow KPN 0720091 (3025)		Circulation Flow KPN 0720126 (3043)		Pressure Drop/Module	
gpm	m ³ /hr	gpm	m ³ /hr	psi	bar
19	4.3	24	5.4	10	0.7
23	5.2	29	6.6	15	1.0
26	5.9	35	8.0	20	1.4

Data based on water at 77° F and a specific gravity of 1.0. Circulation rates exhibit variances of 15%.

NOMINAL DIMENSIONS



Model	A		B		C		D		Permeate Connection	Process Connection
	inches	mm	inches	mm	inches	mm	inches	mm		
3025	4.0	102	25	635	22 ¹⁵ / ₁₆	583	3	76	1 1/2" T/C	3" T/C
3043	4.0	102	43	1092	40 ¹⁵ / ₁₆	1040	3	76	1 1/2" T/C	3" T/C

OPERATING GUIDELINES

Membrane Incompatibility

Prior to exposing the membranes to any chemical, the chemical should be reviewed by KSS. Aside from the listed chemicals, synthetic coolants, semi-synthetic coolants, kerosene, naphtha, gasoline, floc polymers, etc., may affect membrane performance.

Chemicals that should be avoided include the following:

- **Aprotic Solvents** (e.g., Dimethyl Formamide, Dimethyl Acetamide, N-Methyl Pyrolidine)
- **Chlorinated Solvents** (e.g., Methylene Chloride, chloroform, Carbon Tetrachloride)
- **Ketones** (e.g., Acetone, Diacetone Alcohol)
- **Silicones** or Silicone based Defoamers (e.g., Siloxane)

Service and Ongoing Technical Support

KSS has an experienced staff of professionals available to assist end-users and OEMs with optimization of existing systems and to support the development of new applications. Along with the availability of supplemental technical bulletins, KSS also offers a complete line of cleaning chemicals.

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KOVALUS SEPARATION SOLUTIONS™, LLC. 850 Main Street, Wilmington, MA 01887

Main: +1-978-694-7000 • Toll Free: +1-888-677-5624

For complete contact information and listing of our global locations, visit www.kovalus.com

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