DATASHEET

filter-technics AUTHORIZED DISTRIBUTOR

KOCH SEPARATION SOLUTIONS

ROMICON® 3” XM50P 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:	PVC
Seal:	Epoxy

PRODUCT SPECIFICATIONS

Part Number	Model	Active Membrane Area ft² (m²)
0720188	HF, 3025-5.0-45-XM50P	5.0 (0.46)
0720186	HF, 3025-15.0-45-XM50P	15.0 (1.4)
0720127	HF, 3043-26.5-45-XM50P	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)

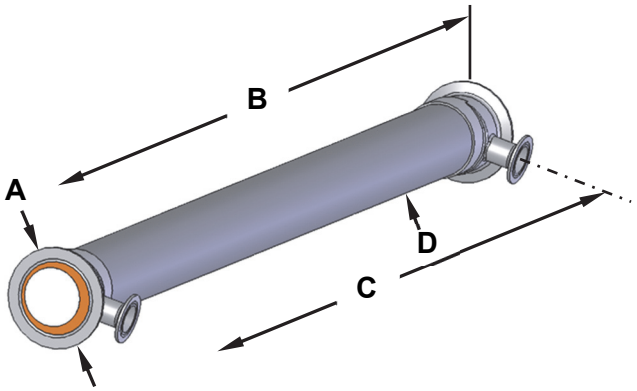
*Consult KSS Process Technology Group for specific applications.

CIRCULATION FLOW VS. PRESSURE DROP

Pressure Drop/Module		Circulation Flow KPN 0720188		Circulation Flow KPN 0720186		Circulation Flow KPN 0720127	
psi	bar	gpm	(m³/hr)	gpm	(m³/hr)	gpm	(m³/hr)
10	0.7	8	(1.82)	24	(5.45)	19	(4.31)
15	1.0	11	(2.50)	29	(6.59)	23	(5.22)
20	1.4	13	(2.95)	35	(7.95)	26	(5.90)

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

NOMINAL DIMENSIONS



Part Number	A		B		C		D		Permeate Connection	Process Connection
	inches	(mm)	inches	(mm)	inches	(mm)	inches	(mm)		
0720188	4.0	(102)	25	(625)	22 15/16	(583)	3	(76)	1 ½” T/C	3” T/C
0720186	4.0	(102)	25	(625)	22 15/16	(583)	3	(76)	1 ½” T/C	3” T/C
0720127	4.0	(102)	43	(1092)	40 15/16	(1040)	3	(76)	1 ½” T/C	3” T/C

filter-technics
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OPERATING GUIDELINES

Membrane Incompatibility

Prior to exposing the membranes to any chemical, the chemical should be reviewed by Koch Separation Solutions, Inc. 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

Koch Separation Solutions, Inc. 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, Koch Separation Solutions, Inc. also offers a complete line of KOCHKLEEN® cleaning chemicals.

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