

# ROMICON® 3" XM50P CARTRIDGES

*Industrial Hollow Fiber Ultrafiltration Cartridges 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	Membrane Area ft <sup>2</sup> (m <sup>2</sup> )
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)

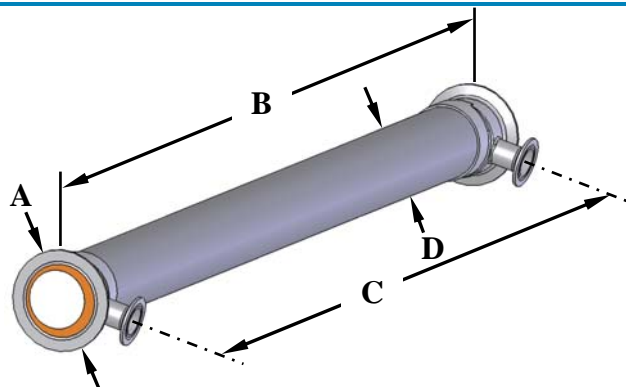
\* Consult Process Technology Group for Specific Applications.

## CIRCULATION FLOW vs. PRESSURE DROP

Pressure Drop/Module		Circulation Flow KPN 0720188	Circulation Flow KPN 0720186	Circulation Flow KPN 0720127
psi	bar	gpm (m <sup>3</sup> /hr)	gpm (m <sup>3</sup> /hr)	gpm (m <sup>3</sup> /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 inches (mm)	B inches (mm)	C inches (mm)	D inches (mm)	Permeate Connection	Process Connection
0720188	4.0 (102)	25 (635)	22 15/16" (583)	3 (76)	1½" T/C	3" T/C
0720186	4.0 (102)	25 (635)	22 15/16" (583)	3 (76)	1½" T/C	3" T/C
0720127	4.0 (102)	43 (1092)	40 15/16" (1040)	3 (76)	1½" T/C	3" T/C

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### MEMBRANE INCOMPATIBILITY

Prior to exposing the membranes to any chemical, the chemical should be reviewed by Koch Membrane Systems, 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 Membrane Systems, 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 Membrane Systems, Inc. also offers a complete line of KOCHKLEEN® cleaning chemicals.

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