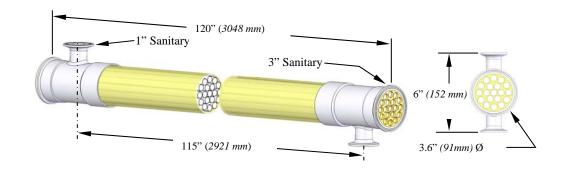


# SUPER-COR<sup>®</sup> ULTRAFILTRATION MODULES

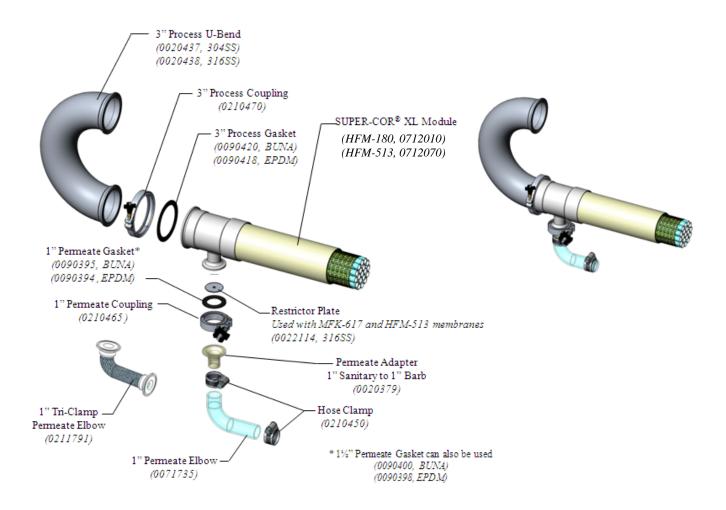
Ultrafiltration Multitube Modules for Juice Processing

PRODUCT DESCRIPTION	Membrane Material: Membrane Type: Molecular Weight Cutoff*: Configuration: Applications: Regulatory Information: Options:	HFM-513: 500,000 Dal Nineteen (19) ½" diam Juice processing Compliant with food co EC Reg. No. 1935/200 HFM-180 membrane fo HFM-513 for all juices	Itons eter tubules in a polysulfone shell Intact regulations per US FDA CFR Title 21, 4 and EU Reg. No. 10/2011 or light juices
	* - The nominal separation range and retention characteristics of the membranes are highly dependent upon the nature of the liquid being processed and on several other operating parameters. This information should, therefore, be used as a guide only		
SPECIFICATIONS	0712010 SUPER-COR	el 3010-HFM-180 3010-HFM-513	Membrane Area ft <sup>2</sup> (m <sup>2</sup> ) 24 (2.2) 24 (2.2)
OPERATING AND DESIGN INFORMATION*	Maximum Operating Pressure: Minimum Outlet Pressure: Maximum Permeate Pressure: Typical Feed Side Pressure Drop Per Module: Maximum Feed Side Pressure Drop Per Module: Maximum Operating Temperature at pH 8: Allowable pH Range at 120°F (49°C): Maximum Chlorine (cleaning): * Consult KMS Process Technology Group for specific applications.		90 psi @ 120°F (6.2 bar @ 49°C) 10 psi (0.7 bar) 3 psi (0.2 bar) 4-5 psi (0.27-0.35 bar) 5 psi @ 120°F (0.35 bar @ 49 °C) Continuous 120°F (49°C) Short term 130°F (54°C) Continuous 2.0 – 10.0 Short term 1.5 – 10.5 200 ppm @ pH 10-10.5, 120°F (49°C)

## NOMINAL DIMENSIONS



## SUPER-COR<sup>®</sup> TUBULAR MODULE ASSEMBLY



### Service and Ongoing Technical Support:

Koch Membrane Systems (KMS) has an experienced staff of professionals available to assist end-users and OEM's for optimization of existing systems and support with the development of new applications. Along with the availability of supplemental technical bulletins, KMS also offers a complete line of KOCHKLEEN® membrane pretreatment, cleaning and maintenance chemicals.

#### KMS Capability

KMS is the leader in crossflow membrane technology, manufacturing reverse osmosis, nanofiltration, microfiltration, and ultrafiltration membranes and membrane systems. The industries we serve include food, dairy, beverage, automotive, water and wastewater, chemical, and general manufacturing. KMS adds value by providing top quality membrane products and by sharing our experience in the design and supply of thousands of crossflow membrane systems worldwide.

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