

# SUPER-COR® XL ULTRAFILTRATION MODULES

Ultrafiltration Multitube Modules for Juice Processing

**PRODUCT** DESCRIPTION

Membrane Material: **PVDF** Membrane Type: Ultrafiltration

Molecular Weight Cutoff\*: HFM-180: 100,000 Daltons HFM-513: 500,000 Daltons

Configuration: Nineteen (19) 1/2" diameter tubules in a polysulfone shell

Applications: Juice processing

Regulatory Information: Compliant with food contact regulations per US FDA CFR Title 21,

EC Reg. No. 1935/2004 and EU Reg. No. 10/2011

Options: HFM-180 membrane for light juices

HFM-513 for all juices

<sup>\* -</sup> 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

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| Part Numbers | Model                      | Membrane Area   |         |
|--------------|----------------------------|-----------------|---------|
|              |                            | ft <sup>2</sup> | $(m^2)$ |
| 0712210      | SUPER-COR® XL 3012-HFM-180 | 28.8            | (2.7)   |
| 0712270      | SUPER-COR® XL 3012-HFM-513 | 28.8            | (2.7)   |

## **OPERATING AND DESIGN INFORMATION\***

**Maximum Operating Pressure:** 90 psi @ 120°F (6.2 bar @ 49°C)

Minimum Outlet Pressure: 10 psi (0.7 bar) Maximum Permeate Pressure: 3 psi (0.2 bar)

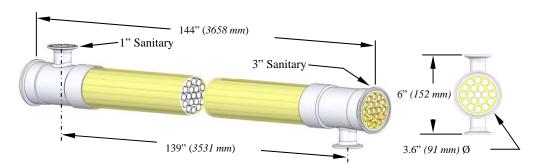
Typical Feed Side Pressure Drop Per Module: 4-6 psi (0.27-0.40 bar) Maximum Feed Side Pressure Drop Per Module: 6 psi @ 120 °F (0.4 bar @ 49°C)

Maximum Operating Temperature at pH 8: Continuous 120 °F (49°C) Short term 130 °F (54°C)

Allowable pH Range at 120°F (49°C): Continuous 2.0 - 10.0 Short term 1.5 - 10.5

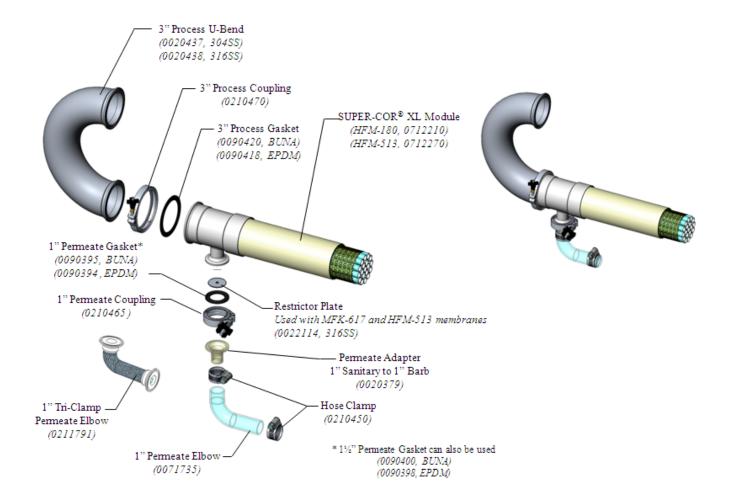
Maximum Chlorine (cleaning): 200 ppm @ pH 10-10.5, 120°F (49°C)

## **NOMINAL DIMENSIONS**



<sup>\*</sup> Consult KMS Process Technology Group for specific applications.

# SUPER-COR® XL 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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