

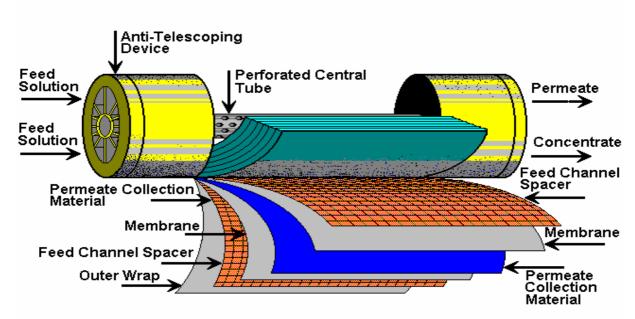
Food and Beverage Application

Product Concentration & Recovery

Benefits of Esmil Process Systems Membrane Systems

Membrane systems supplied by Esmil Process Systems have the following in benefits:

- Robust polyamide and polysulphone construction
- Low fouling ultra-smooth 3 layer membrane
- High surface area
- Easy-clean construction enabling high / low pH CIP
- Sanitary specification enabling high temperature sterilization



Spiral-wound element: A closer look

Membrane Type	Rejection
Microfiltration	Suspended Particles
	Macromolecules
Ultra-filtration	Protein
	Starch
Nano-filtration	Sugars
Nano-intration	Divalent lons
Reverse Osmosis	Monovalent lons
Reverse Osiliosis	BOD / COD

SPECIALISTS IN THE TREATMENT OF CHALLENGING INDUSTRIAL EFFLUENTS Food & Beverage Industry

Benefit Summary

Application	Technology	Advantages
Fat Removal	MF Membranes	Removes soluble and emulsified fats
		Removes lubricating oils
Dextrose Clarification	MF / UF Membranes	Less than 1 micron filters
		More efficient than media filters
Colour Removal	UF / NF Membranes	Removes soluble metals
		Removes organics
		No chemicals required
Starch & Sugar Concentration	RO Membranes	High temperature operation
Polishing Evaporator Concentrate	UF Membranes	High temperature operation

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