

DairySep™

Ultrafiltration Elements

The Vandstrom DairySep™ UF series elements achieve superior rejection and permeability when compared to standard industry membranes.

In food, beverage, dairy, industrial biotech and other process streams, the DairySep™ element permeate flux and element productivity are higher because of the membrane's high porosity, hydrophobicity and pore size uniformity.

The DairySep™ performance is a result of a combination of advanced chemistry formulations and novel membrane fabrication techniques, and they are built at a new state-of-the-art facility in Gaithersburg, Maryland.

For existing UF systems the DairySep™ UF benefits include:

- Reduced number of elements and vessels, reducing cleaning chemicals and membrane replacement
- Substantially lower energy profile
- Accurate fractionation creates a higher quality retentate
- Reduced need for retentate post treatment

Lower Your Carbon Footprint

The DairySep™ high productivity feature translates to lower energy use and lower green house gas footprint, delivering tangible results to help you to meet corporate environmental targets.

The DairySep™ is Global

From multinational corporations to small enterprises, the DairySep™ UF element is found in live production environments in Europe, North America and Asia.

For the design of new UF systems, DairySep™ elements offer:

- A design with fewer elements and vessels
- Lower capital cost of the skid
- Higher system capacity for the same skid floor space
- Reduced driving pressure and energy requirements

High Performance for High Value Industries

The DairySep™ 10kDa MWCO membrane is the workhorse of many high value molecular separations industries, serving:

- Plant based protein
- Infant formula ingredients
- Nutraceutical formation
- Sports nutrition
- Enhanced protein dairy products
- Enzyme production

Regulator Approved

The DairySep™ is approved for food contact

USDA 3-A Sanitary Standard 45-03

EU Regulation 10/2011 and 1935/2004 for plastic materials for food contact

Halal

Kosher



Product Configurations

Membrane Type	Diameter in	Length in	Feed Spacer mil	MWCO	AB Model Number
UF	3.8	38	31	10 kDa	DairySep UF PS10E-3838-31
UF	3.8	38	46	10 kDa	DairySep UF PS10E-3838-46
UF	3.8	38	65	10 kDa	DairySep UF PS10E-3838-65
UF	6.3	38	31	10 kDa	DairySep UF PS10E-6338-31
UF	6.3	38	46	10 kDa	DairySep UF PS10E-6338-46
UF	6.3	38	65	10 kDa	DairySep UF PS10E-6338-65
UF	6.4	38	31	10 kDa	DairySep UF PS10E-6438-31
UF	6.4	38	46	10 kDa	DairySep UF PS10E-6438-46
UF	6.4	38	65	10 kDa	DairySep UF PS10E-6438-65
UF	7.8	38	31	10 kDa	DairySep UF PS10E-7838-31
UF	7.8	38	46	10 kDa	DairySep UF PS10E-7838-46
UF	7.8	38	65	10 kDa	DairySep UF PS10E-7838-65
UF	8.0	38	31	10 kDa	DairySep UF PS10E-8038-31
UF	8.0	38	46	10 kDa	DairySep UF PS10E-8038-46
UF	8.0	38	65	10 kDa	DairySep UF PS10E-8038-65
UF	8.3	38	31	10 kDa	DairySep UF PS10E-8338-31
UF	8.3	38	46	10 kDa	DairySep UF PS10E-8338-46
UF	8.3	38	65	10 kDa	DairySep UF PS10E-8338-65

Please contact us for other configurations.

Operating Conditions

Typical Operating Pressure	2–6 bar
Max. Operating Pressure	7 bar
CIP pH Range	2 to 11
Max. Free Chlorine	150 ppm
Max CIP Temperature	55° C
Max Operating Temperature	50° C
Max. Press. Drop (per element)	1.2 bar

Elements are available for purchase directly, or through your OEM partners. Contact us to experience the Vandstrom Pilot Program.

DairySep™ elements are made in the USA.

About Vandstrom, Inc.

Vandstrom is a leader in the convergence of polymer and protein membrane technology. We have developed a high-performance membrane platform for water, life science, enzyme, food, and dairy separation applications.

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