

Dairy-Pro[®]

Sanitary Spiral Wound Elements

Advanced Membrane Filtration for Dairy Processing



Blister Resistant, Energy Efficient, Higher Productivity

Over 40 Years of Experience in Dairy Filtration

Koch Membrane Systems (KMS) is a global leader in innovative membrane filtration technologies. We've combined our 40 years of dairy industry experience with unmatched engineering and technical expertise to design Dairy-Pro® sanitary spiral wound elements specifically for demanding dairy filtration applications.

Improved Blister Resistance, Longer Operating Life

Dairy-Pro elements utilize a blister resistant design and cross flow filtration technology to improve energy efficiency, reduce operating costs, increase productivity, and decrease contamination risk. They are constructed to tolerate harsh cleaning requirements extending their operating life and optimizing every step of dairy membrane processing.

Dairy-Pro Technologies Benefits of Dairy-Pro

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| <ul style="list-style-type: none"> • Microfiltration (MF) • Ultrafiltration (UF) • Nanofiltration (NF) • Reverse Osmosis (RO) | <ul style="list-style-type: none"> • Blister Resistant • Energy Efficient • Long Operating Life • USDA, FDA and 3A, EU, and Halal compliant |
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A Dairy-Pro for any Application

Technology	Benefits	Applications
MF	<ul style="list-style-type: none"> • Cleaner Protein Separation • High Temperature Capability up to 85°C • Blister Free 	<ul style="list-style-type: none"> • Whey Defatting • Casein Concentration • Brine Clarification
UF	<ul style="list-style-type: none"> • Increased Throughput up to 15%* • Lower Energy Consumption by 25%* • Blister Free • Chlorine Tolerant HpHT 	<ul style="list-style-type: none"> • Whey Protein Concentrate • Whey Protein Isolate • Milk Protein Concentrate • Lactose Demineralization
NF	<ul style="list-style-type: none"> • Lower Energy Consumption by 15% • Blister Resistant • CIP Temperatures up to 60°C (140°F) 	<ul style="list-style-type: none"> • Whey Concentration • Whey Demineralization • High Solids Concentrate <ul style="list-style-type: none"> – Whey and Milk Protein Concentrate – Whey Protein Isolate
RO	<ul style="list-style-type: none"> • Lower energy Consumption by 15% • Blister Resistant • CIP Temperatures up to 60°C (140°F) • Pressure Capability up to 800 psi (55 bar) 	<ul style="list-style-type: none"> • Milk, Whey, and UF Permeate Concentration • Polishing

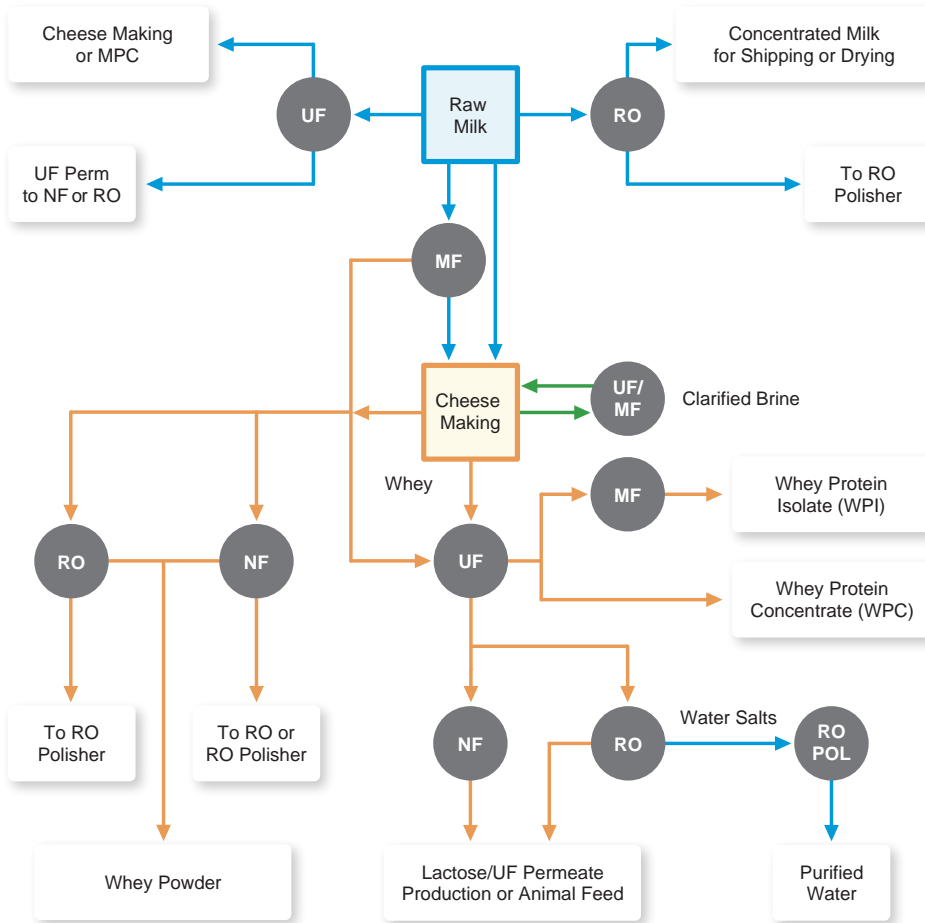
* Not yet available with HpHT elements.

Filtration, Purification, Separation

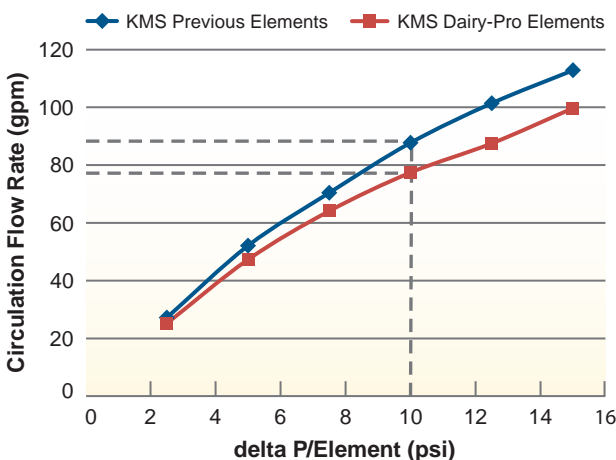
KMS Elements Have Processed Over 5 Trillion Pounds (2.3 Trillion Liters) of Dairy

Dairy-Pro® elements benefit every step of dairy processing. Whether your application is the filtration, purification, or separation, of milk, whey, or protein, Dairy-Pro elements will reduce energy consumption and increase throughput. See where you can use Dairy-Pro to improve your productivity and results.

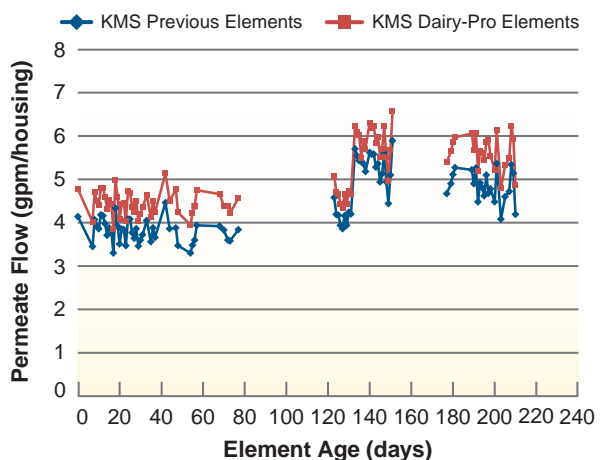
A Dairy-Pro for Every Process



Lower Energy Usage with Dairy-Pro Elements



Higher Productivity with Dairy-Pro Elements



Dairy-Assist®

Koch Membrane Systems' Dairy-Assist program is a comprehensive, global support service to improve the long term efficiency and optimize the performance of your system.

The program provides access to our process engineering and field service team.

Benefits Include:

- Membrane Process Optimization
- Regular Site Visits
- Data Collection, Analysis and Reporting
- Operator Training
- Telephone Support



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