



**PROVIDING  
VALUE-ADDED  
SUSTAINABLE  
SOLUTIONS TO  
THE DAIRY  
INDUSTRY**



**COMPLETE**  
FILTRATION RESOURCES

# Welcome to Complete Filtration Resources



USA  
UK  
Canada  
Mexico  
Brazil  
Panama  
Peru  
Ecuador  
Philippines  
Russia  
Netherlands  
Germany  
Poland  
Spain  
Iceland  
Ireland  
Morocco  
France



## Why Use Complete Filtration Resources?

Founded in 1993, Complete Filtration Resources has become a prominent force on the global stage, with offices strategically located in Denmark, Brazil and the Netherlands, complementing our corporate headquarters in Marshfield, WI. Specializing in skidded membrane filtration systems and waste water solutions, we offer a comprehensive suite of services spanning from design, fabrication, controls, installation, training, and ongoing support.

Our rich experience encompasses the entire spectrum of membrane filtration and wastewater treatment. Whether tailoring solutions for dairy process systems, food and beverage industries, or various industrial applications, our expertise is unparalleled.

As a supplier committed to global excellence, Complete Filtration Resources collaborates with clients worldwide, ensuring seamless project execution within budget and on schedule. Count on us as the dedicated partner that delivers optimal filtration and wastewater solutions for your plant's success.

## Research & Development

We work with our customers to design and scale up the proper membrane system utilizing our extensive experience as well as our pilot testing units. The testing units are also used for process evaluation and solving separation problems. The development team at Complete Filtration Resources brings many years of experience in the application of membrane filtration technology. A successful process results from both careful pilot testing and the cumulative wisdom and experience of our process development team.

## Our Purpose -

Elevating employee, customer, and community experiences through sustainable technology and innovative processes, in a fun and engaging atmosphere.

## Core Values -

### Tenacity

Committed to achieving goals with resolve and meticulous attention to detail.

### Stakeholder-Centric

Prioritize community, employee, and customer needs.

### Agility

Creative and empowered culture that responds quickly to any situation.

### Fun

Foster creativity, teamwork, and innovation in an awesome work environment.

### Integrity

Loyal, committed, and accountable - we take ownership.

# Global Pioneers In Process Filtration: Transforming Challenges Into Solutions

## Exponential Growth

### 1993-2004

(4) Employees US Market  
Focus

### 2005-2010

First growth phase through  
standalone projects

Subsidiary Controls Division  
Formed

(9) Employees US Market  
Focus

### 2010-2015

(15) Employees US, South  
America & European Market  
Focus

Expansion Into Dairy  
Wastewater

Service Division Formed

### 2016-Present

(55) Employees US, South  
America & European  
Membrane Market Focus

Market Leader in Dairy  
Membrane Service & Supply

New Office + Warehousing in  
Marshfield and Arnhem

Acquisition of New Denmark  
Office



At Complete Filtration Resources, we are at the forefront of designing, manufacturing, installing, and supporting cutting-edge process filtration and waste treatment systems worldwide. With a focus on

dairy process systems and expertise spanning diverse industries, from food and beverage to industrial applications, we turn challenges into innovative solutions for a cleaner, more efficient future.



**ONSITE  
SAFETY**



**DEDICATED  
PROJECT  
MANAGEMENT**



**CONTINUOUS  
TRAINING**



**EMPOWERED  
TEAM MEMBERS**



**POST PROJECT  
SERVICE + SUPPORT**

# FILTRATION

## What is Crossflow Filtration?

Crossflow filtration is a process where product is separated through a porous membrane while the feed solution flows rapidly across the surface of the membrane.

### Micro-Filtration (MF)

50,000 - .2µm

**Feed**—Water, Monovalent Ions, Multi-Valeant Ions, Sugars, Amino Acids, Proteins, Polysaccharides, Particulates, Colloids, Bacteria

**Concentrate**—Particulates, Colloids, Bacteria

**Permeate**—Water, Monovalent Ions, Multi-Valeant Ions, Sugars, Amino Acids, Proteins, Polysaccharides

### Ultra-Filtration (UF)

3,000-300,000 Dalton MWCO

**Feed**—Water, Monovalent Ions, Multi-Valeant Ions, Sugars, Amino Acids, Proteins, Polysaccharides, Particulates, Colloids, Bacteria

**Concentrate**—Proteins, Polysaccharides, Particulates, Colloids, Bacteria

**Permeate**—Water, Monovalent Ions, Multi-Valeant Ions, Sugars, Amino Acids

### Nano-Filtration (NF)

.1-10 Nanometer Pore Size

**Feed**—Water, Monovalent Ions, Multi-Valeant Ions, Sugars, Amino Acids, Proteins, Polysaccharides, Particulates, Colloids, Bacteria

**Concentrate**—Some Monovalent Ions, Multi-Valeant Ions, Sugars, Amino Acids, Proteins, Polysaccharides, Particulates, Colloids, Bacteria

**Permeate**—Water, Some Monovalent Ions

### Reverse Osmosis (RO)

.1 nanometer Pore Size

**Feed**—Water, Monovalent Ions, Multi-Valeant Ions, Sugars, Amino Acids, Proteins, Polysaccharides, Particulates, Colloids, Bacteria

**Concentrate**—Monovalent Ions, Multi-Valeant Ions, Sugars, Amino Acids, Proteins, Polysaccharides, Particulates, Colloids, Bacteria

**Permeate**—Water

## Membrane Filtration Configurations



Ceramic/Metallic



Tubular



Spiral Wound



Hollow Fiber

## APPLICATIONS

### Dairy

#### Milk

Milk Protein Isolate (MPI)  
Milk Protein Concentrates (MPC)  
Standardization  
Lactose Removal  
Microbial Reduction  
Casein Protein Separation

#### Cheese Whey

Whey Protein Concentrates  
WPC35 - WPC85  
Whey Protein Isolates (WPI)  
Demineralization  
Lactose Removal  
Microbial Reduction  
Fat Removal

#### Salt Brine

Clarification

#### Water Re-Use (Polish)

RO Permeate  
Evaporator Condensate  
Waste Streams

### Vegetable, Meat, Fish, Egg And Beverage

Plasma Separation  
Protein Concentration  
Gelatin Concentration  
Fruit Juice Concentration

De-alcoholization  
Clarification  
Desalination  
Demineralization

De-acidifying Plant Extracts  
Neutraceutical Concentration  
Yeast Removal  
Microbe Reduction

### Industrial

Waste Water Treatment  
Caustic Reclamation  
Membrane Bio-reactors

De-acidification  
Demineralization  
Desalination

Glyphosate Purification  
Anaerobic Digesters

# Stronger in the Nordic and Baltic States

Complete Filtration Resources, Inc. has acquired assets and activities from the bankruptcy estate SD Filtration A/S, a leading Danish membrane filtration company. This strategic move expands our reach and capabilities, bringing a highly experienced team with deep industry knowledge into our existing organizations located in the US and the Netherlands.

With a culture in line with Complete Filtrations values, SD Filtration's dynamic team, wide industry networks, and expertise in emerging markets offers exciting growth opportunities. This acquisition strengthens our position in the market, enabling us to provide enhanced products and services to our valued customers.



## Automation Capabilities

Discover the comprehensive capabilities of our in-house automation group, supported by extensive expertise in programming and utilizing various HMI and programming platforms tailored to meet our client standards.

We proudly cultivate strategic partnerships with local panel manufacturers and well-known instrument manufacturers, ensuring collaborative efforts that adhere to the highest industry standards. Complementing these partnerships is our commitment to UL508A-certified panel shops for in-house wiring, ensuring meticulous quality control.

## Replacement Membrane Sales & Service

Our services guarantee efficient and prompt handling of your orders through leading response times and a streamlined production capacity with multiple manufacturers. We maintain strong relationships with membrane manufacturers globally, leveraging significant buying power for innovation. Regular communication and feedback gathering from our extensive customer base contribute to product value enhancement. Our in-house technical experts assist with warranty claims, ensuring optimal solutions. Comprehensive support includes site visits, phone, and email assistance to optimize system performance. We provide industry insights, alternative options, and cost-effective membrane purchasing tailored to end users, ultimately saving you money.



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