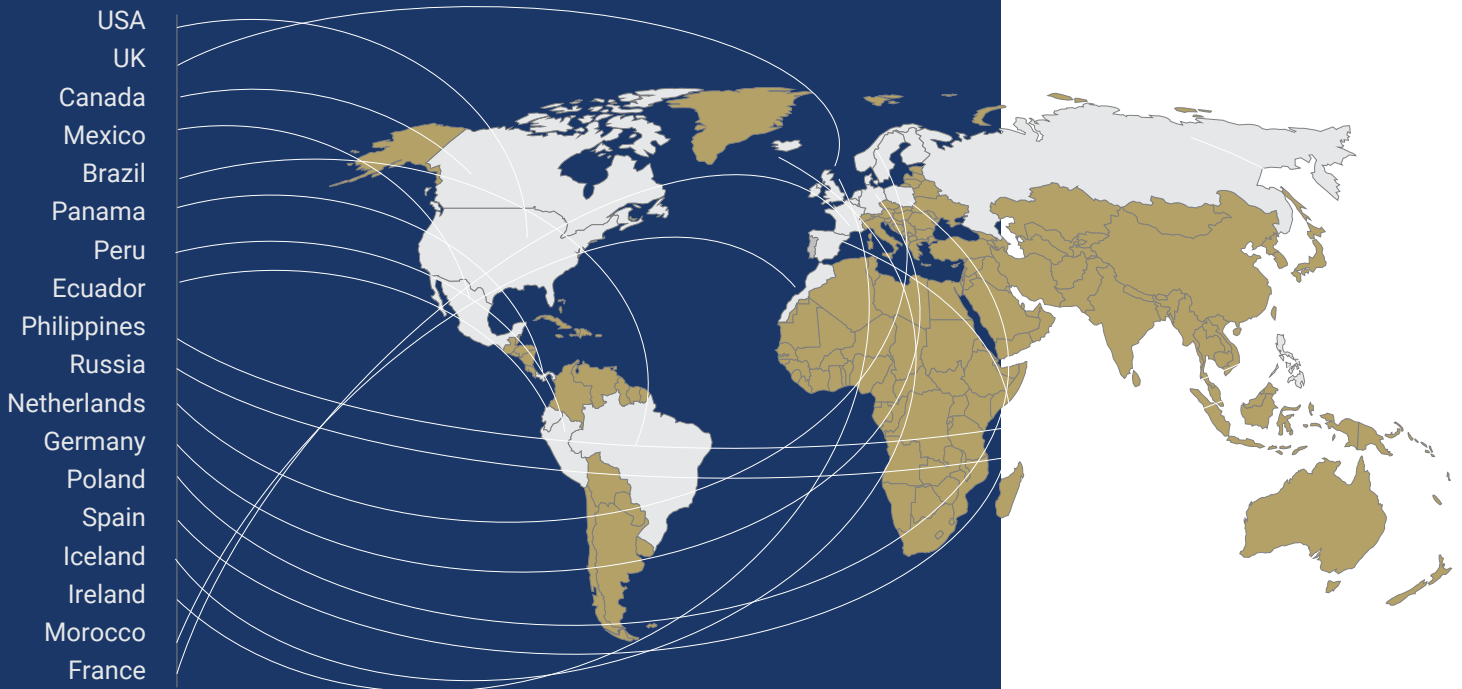


CUTTING-EDGE MEMBRANE FILTRATION TECHNOLOGY



COMPLETE
FILTRATION RESOURCES

Welcome to Complete Filtration Resources



Our History

Complete Filtration Resources was founded in 1993 and is a well-established designer and manufacturer of skidded membrane filtration systems. We serve the food, dairy, pharmaceutical, chemical and industrial processing industries. Our experienced team can design, fabricate, install and startup your filtration project.

Why Use Complete Filtration Resources?

Choosing Complete Filtration Resources for your project lets you partner with the filtration supplier who is leading the way in cutting-edge filtration technology.

One-Stop-Shop

We design and manufacture a full line of components for our membrane systems. Together with our fabrication and installation partners around the world we can offer you a turn-key service which allows us to provide frames, tanks, heat exchangers, vessels and piping. We can also supply complete system assembly, controls and programming in house. The talent we've cultivated helps us to better serve you and it shows in everything we design, build and install.

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.

From design, fabrication and controls to installation, training and service—Complete Filtration Resources delivers for you.

Today's processing industries need a filtration system supplier who is experienced in the full spectrum of membrane filtration. One who is already established in your industry, is innovative and is cost effective—a supplier you can trust to handle the entire project. Complete Filtration Resources is the supplier who works within your budget and schedule to deliver the membrane filtration solution your plant needs.

Cutting-edge Membrane Filtration Technology

Choosing Complete Filtration Resources for your project partners you with the filtration supplier who is leading the way in cutting-edge filtration technology.

Exponential Growth

1993-2004
Employees US Market Focus

2005-2010
First growth phase through standalone projects
Subsidiary Controls Division Formed
Employees US Market Focus

2010-2015
Employees US, South America & European Market Focus
Expansion Into Dairy Wastewater
Service Division Formed

2016-Present
Employees US, South America & European Market Focus
Western US Engineering and Sales Support
Market Leader in Dairy Membrane Service & Supply
New Office + Warehousing
Partnership with Eurodia

Start to Finish and Beyond We're Complete

We have all heard the phrase; "there is no "I" in TEAM". Here at Complete Filtration Resources, we have a deep understanding of what that can mean. Our team goes above and beyond to make sure that the "I" doesn't sneak in. Even though it is hard to measure the "Culture" of an organization, we have always felt that ours is special. Not only do we enjoy working together to make sure our customers are satisfied, we also take time to have a little fun. We take on the motto "Work Hard, Play Hard". Our people are an



asset to our business and they champion our success. They each bring a different skillset and knowledge to the table and we are so fortunate to have each and every one of them.



ONSITE SAFETY



DEDICATED PROJECT MANAGEMENT



CONTINUOUS TRAINING



EMPOWERED TEAM MEMBERS



POST PROJECT SERVICE + SUPPORT

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



Sustainable Wastewater Treatment Solutions

Complete Filtration Resources prides itself on providing our customers with wastewater treatment systems that are sustainable, both from an environmental and economical perspective. We understand that each project's goals are unique. We custom engineer solutions to deliver the most economical process. Our treatment processes have been optimized to manage the unique challenges that are common when treating wastewater from food and beverage manufacturing.



ANAEROBIC MBR



AEROBIC MBR



ENHANCED BIOLOGICAL PHOSPHORUS REMOVAL



ULTRA-FILTRATION MEMBRANE SKIDS

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

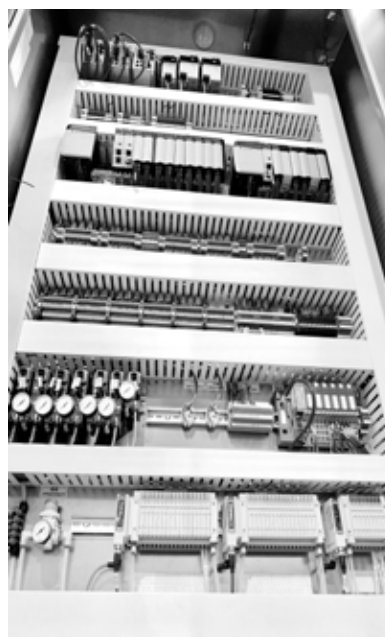
Replacement Membrane Sales & Service

Complete Filtration Resources maintains close working relationships with component and membrane manufacturers around the world providing our customers the buying power and support they deserve. By purchasing membranes from Complete Filtration Resources, your business will readily have access to our Technical Group for service and process support. That means you have the opportunity to receive site visits, phone and email support. We'll work with your plant to plan scheduled visits to confirm your systems are running at peak performance.



Controls & Automation

With an in-house automation group you can be certain your system will operate as you desire. Our programming group has a wide variety of expertise utilizing different HMI and programming platforms. Our panel shop is UL508A certified and all wiring is completed in-house. We test our panels and skids in the shop before the equipment leaves to ease the start-up and installation process. We also have a group of skilled technicians who can assist with low voltage wiring and testing on-site if applicable.



US CORPORATE OFFICE

1900 East 24th Street

PO Box 253

Marshfield, WI 54449

EUROPEAN OFFICE

[NETHERLANDS]

Jansbuitensingel 30

Office 1.4

6811 AE Arnhem

inquiries@gotocompletefiltration.com



COMPLETE
FILTRATION RESOURCES

+1 (800) 301-3254 | GOTOCOMPLETEFILTRATION.COM