



Complete Filtration Resources, Inc.

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www.gotocompletefiltration.com

***From design, construction and controls to installation and service,
COMPLETE FILTRATION RESOURCES will deliver for you***

When it comes to filtration systems, today's food, beverage and dairy processors and pharmaceutical manufacturers need a supplier who is experienced in the full spectrum of membrane filtration ... one who is already established in your industry, is innovative, also cost effective ... a supplier who may be trusted to handle the entire project.

EQUIPMENT FABRICATION

Our shop personnel are experienced in sheet metal layout, machining, welding and product finishing to meet FDA, USDA, 3A and ASME requirements. Fabrication takes place in our new 40,000 square foot fabricating shop. With large quantities of raw materials and components warehoused here, delivery schedules are on time. Quality control is maintained by incorporating management and working employees on all inspections.

TOTAL PROCESS CONTROL

We offer in-house engineering, design, assembly and programming with on-site installation, service and support. Our staff incorporates the latest technology available from leading manufacturers of PLC's, instrumentation, controllers, recorders and data acquisition packages. Your existing control processes can be serviced by CFR technicians or updated by CFR engineers. UL approval available.

INSTALLATION

Our installation crews work nationwide, perform complete field assembly of equipment and piping in an efficient and affordable basis ensuring timely project completion. We design/build new plants and process lines in addition to retrofits, system upgrades and repair of existing equipment.

NEW PRODUCT DEVELOPMENT

We work with our customers to design and scale up the proper membrane system utilizing our state-of-the-art pilot testing unit. It records temperature, pH, pressures and flows.

We have particular strengths in new product development, having shared responsibility for many innovative breakthroughs in nanofiltration applications, caustic reclamation and brine purification.

AFTER-SALE SERVICING

As part of our total commitment to our customers, we will train your staff to operate the filtration equipment for maximum performance. From processing to membrane monitoring to cleaning procedures, our staff will work with your people to assure you that your system will work properly without disrupting existing plant operations.

COMPLETE FILTRATION RESOURCES

We have access to a wide range of membrane types and manufacturers. We have access to membranes from all major suppliers and are committed to finding the best solutions for your applications.



CFR can design, fabricate, and install your membrane filtration process. CFR also provides controls, programming, full start up assistance, and training. You can rely on CFR to stand behind every system that we put in. Even more, you can rely on CFR to provide full after-start up service and support if problems occur or if system modification or expansion is desired..



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REVERSE OSMOSIS

One of the most cost-effective ways to concentrate solids and to purify water. Because of RO's effective energy usage, it will continue to play a major role in these processes. Below are some common industrial applications:

- ✓ Concentration of milk and whey
- ✓ Concentration of fruit juice
- ✓ Cow water polishing
- ✓ Boiler water feed purification
- ✓ Waste water treatment

ULTRAFILTRATION

Thanks to a large selection of membrane types and pore sizes, our customers can select and fractionate between a sizeable variety of components, based upon their molecular weight. We offer a complete line of UF equipment for both large and small applications, such as:

- ✓ Whey protein concentrates
- ✓ Fruit juice clarification
- ✓ Brine purification
- ✓ Waste water filtration
- ✓ Caustic and acid solution recovery

NANOFILTRATION

The newest type of membrane, nanofiltration can meet many varying demineralization applications. In fact, it seems new applications are appearing almost daily because of its versatility. Our experience has been in the following applications:

- ✓ Concentrating and demineralizing whey UF permeate
- ✓ Concentrating and demineralizing of whey
- ✓ Concentration and demineralizing of salt whey
- ✓ Deacidification of acid whey
- ✓ Waste water demineralizing

MICROFILTRATION

MF is very useful for fat removal in whey and dairy products and in waste water. We offer a complete line of MF membranes -- ceramic, stainless steel and polymer. Some recent applications are:

- ✓ Complete fat removal in milk products
- ✓ Waste water clarification
- ✓ Rough fruit juice clarification
- ✓ Caustic and acid solution recovery

