



Digested[®]
ORGANICS

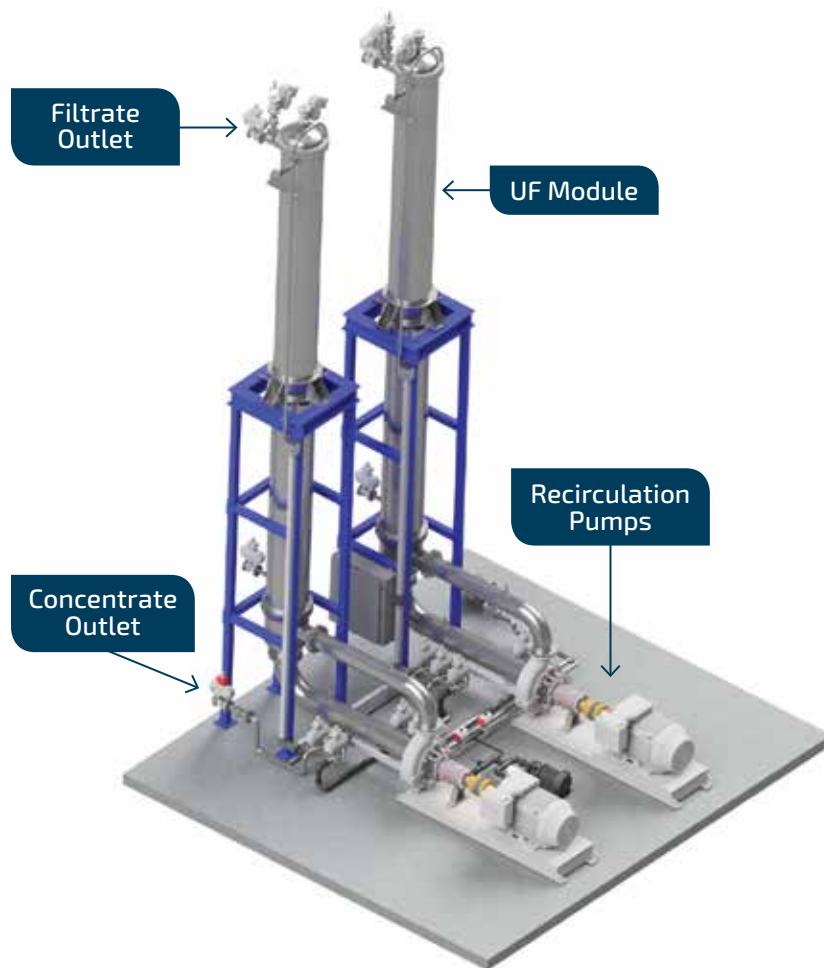


ULTRAFILTRATION

STAINLESS-STEEL TUBULAR FILTRATION FOR
THE MOST DEMANDING APPLICATIONS

HOW UF WORKS

Our stainless-steel ultrafiltration (UF) systems are the toughest on the market today. With a 3/4" internal diameter tubular membrane made of 316L stainless steel, our membranes are abrasion resistant, handle extremes in temperature and pH, and can produce very thick concentrates. If we can pump it, we can filter it!



1

Material to be filtered is pumped into the UF modules by the Feed Pump.

2

The material is recirculated through the tubes in the UF modules by the Recirculation Pumps. Multiple modules can typically be arranged in series to provide the required filtration area.

3

Filtrate passes through the wall of the tubes and fills the module shell, exiting at the top of the module. The thickened concentrate exits through a flow control valve.

Technology Highlights

POROUS STAINLESS-STEEL

3/4" tubular membranes with internal titanium dioxide coating are abrasion, temperature, and chemically resistant.

WELDED & BOLTED CONSTRUCTION

ASME code-stamped pressure vessel available in any diameter to accommodate any size project.

DESIGNED TO LAST

Made to last 10-15 years in challenging applications with little downtime, maintenance or repair.

NO INTERNAL MOVING PARTS

Simple, robust system with no internal moving parts and efficient externally mounted pumps.

FLEXIBLE & TUNABLE

Can operate in batch-mode or continuously and be mounted horizontally or vertically.

Ultrafiltration Applications:

-  FOOD & BEVERAGE MANUFACTURING
-  DISTILLERIES  BREWERIES
-  FARMS  INDUSTRIAL & MUNICIPAL
-  LANDFILLS & COMPOSTERS



Whole Stillage



Brewery Wastewater



Oil Washing Wastewater at Biodiesel Plant

Benefits:

- Create highly concentrated or perfectly clarified products with ease
- Combine with aerobic or anaerobic systems to create a Membrane Bioreactor (MBR)
- Fully automated systems require little operator attention
- Handles high temperature, high solids, and oily liquids that most other filters cannot
- Proudly manufactured in the USA



DO Metrics™

Our online dashboard for remote monitoring and data reporting.



Food Waste Digestate



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Work with us to Reclaim Your Waste™



EXPLORING *Filtration*

Call to learn how an Ultrafiltration System can help your facility.



TESTING *Filtration*

We will pilot test your material at our facility in Michigan or bring our equipment onsite, providing you with a thorough report and proposal for a full-scale system.



IMPLEMENTING *Filtration*

We deliver, install, and commission your new filtration system and teach employees how it works, ensuring it meets your expectations.



MAINTAINING *Filtration*

Our filtration equipment will become an integral part of your facility and allows you to streamline and expand your operations while reducing wastewater treatment costs and producing value-added co-products.