



Stillage Filtration

Digested Organics provides distillers with a filtration solution that can process whole or thick stillage into clean water and concentrated co-products.

Key Benefits

- Reduce Stillage disposal costs and complexity
- Reduce stillage volumes and conserve freshwater
- Automated technology with remote access and mobile alerts
- Opportunities to create higher value co-products

Our Solution

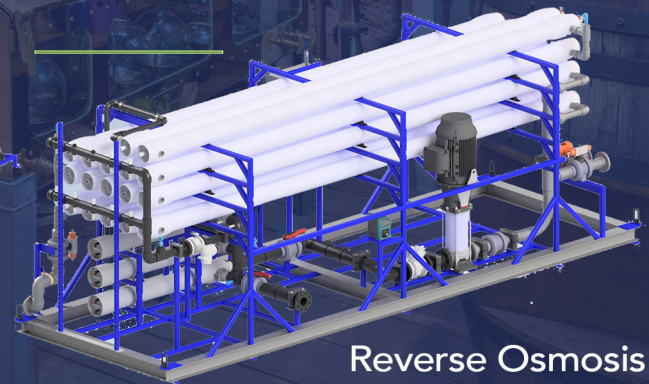
Ultrafiltration



Superfiltration



Reverse Osmosis



Stillage



Ultrafiltrate



SF Concentrate



Clean Water



Stillage Filtration

OUR SOLUTION

Benefits & Impacts

Digested Organics provides distillers with a filtration solution that can process whole or thin stillage into clean water and concentrated co-products.

ULTRAFILTRATION (UF)

- UF recovers 65-85% of stillage as ultra-thin stillage, greatly reducing suspended solids, fats/oils, bacteria, and BOD/COD levels
- Ultra-thin stillage is ideal for use as backset to enhance yeast propagation and reduce freshwater use without displacement of non-fermentable solids
- For sites that already use evaporators, UF can reduce the total volume and solids loading, reducing energy costs and maintenance
- UF concentrate is high in total solids and protein, making it more valuable as an animal feed while remaining easily pumpable for transportation in tanker trucks

SPIRAL MEMBRANE FILTRATION

- Ultra-thin stillage can be further purified onsite to produce clean water for reuse and discharge along with a second concentrate co-product
- Lower energy cost and smaller footprint compared to traditional centrifugation and evaporations systems

PARAMETER	WHOLE STILLAGE	ULTRA-THIN STILLAGE	UF CONCENTRATE	CLEAN WATER
Total Solids (%)	6.1	1.7	15.1	0.04
COD (mg/L)	66,910	17,760	109,700	14
TKN (mg/L)	3,100	372	7,000	< 1.0
Phosphorus (mg/L)	600	448	700	< 0.01
Potassium (mg/L)	800	797	800	1.1
Sulfur (mg/L)	300	43.5	500	< 0.5



Valuable
co-products



Clean Water

Just ask our customers...

The Digested Organics system provides the exact solution for managing the whole stillage generated at our distillery. The system allows us to run real time and use our existing infrastructure of storage tanks and tanker trucks to completely manage all our stillage without having to create a dried feed material at a much higher cost. It also offers a smaller footprint and requires less energy compared to more traditional systems involving centrifuges and evaporators.

We are now able to provide a highly valuable concentrated animal feed instead of a watered down whole stillage and generate a clean ultra-thin stillage we can re-use in our process. The clean water generated from the Spiral Membrane process can be used for boiler feed water, or discharged.

The system provides an advanced, automated, and cost effective solution to an age old problem that has become more challenging with the growth of the industry. Over our 13 years in the distilled spirits industry we have not experienced a more effective system to remediate whole stillage like this system can.

- Shane Baker

Co-Owner of Wilderness Trail Distillery

Contact us today for a customized quote. 844.934.4378