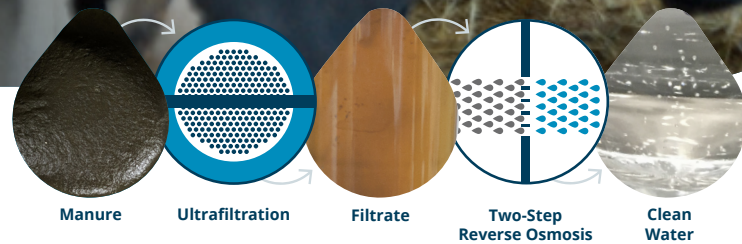




MANURE FILTRATION



OUR SOLUTIONS

Benefits & Impacts

Reduce manure handling costs, concentrate nutrients, and reclaim clean water for reuse or discharge.

ULTRAFILTRATION (UF)

- Recover 65-85% of manure as a transparent filtrate free of pathogens and suspended solids with very low levels of phosphorus and organic nitrogen
- Filtrate is ideal for high-volume application to fields and will not clog irrigation systems
- Concentrate is a phosphorus-rich slurry that can be cost-effectively transported to fields further away or used to produce value-added composts and fertilizers

TWO-STEP REVERSE OSMOSIS (TSRO)[™]

- UF filtrate is converted into clean water for reuse or discharge and a concentrated liquid fertilizer
- Water reclamation reduces manure hauling, spreading, and lagoon storage requirements while decreasing freshwater consumption

FACILITY BENEFITS



Create low-phosphorus liquid and concentrated fertilizer



Capture phosphorus and carbon credits through improved management



Reduce manure hauling and spreading costs while optimizing nutrient application and uptake



Use pathogen-free and solids-free filtrate for sand washing or flushing

HOW IT WORKS

Technology & Performance

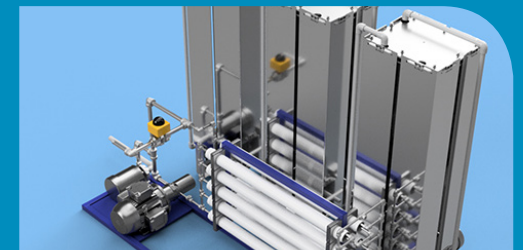
ULTRAFILTRATION

- Proven, polymer-free technology with demonstrated results at commercial dairy farm
- Robust design handles high temperatures, high solids, high viscosities, and extremes in pH
- Designed to last 10-15 years in challenging applications with little downtime, maintenance, or repair
- Cleans quickly and automatically using standard cleaning solutions
- Can operate in batch or continuous modes and be mounted horizontally or vertically

TWO-STEP REVERSE OSMOSIS

- Proven membrane technology with demonstrated results at commercial dairy farm
- Reduces volume of UF filtrate by 65-90%
- Highly reliable, non-biological, and polymer-free solution to purify UF filtrate
- Produces clean water ready for reuse or discharge and a value-added product high in ammonia nitrogen and potassium
- Highly automated design requires minimal operator attention

UF Equipment TSRO Equipment





OUR SOLUTIONS WORK

96%

of phosphorus concentrated into 25% of manure's volume

38%

of nitrogen concentrated into 25% of manure's volume

50-60%

of manure volume reclaimed as clean water

Contact us today for a quote

844.934.4378

We will help you

- Reduce Manure Handling Costs
- Enable Increased Production
- Reclaim Water



EXPLORING Filtration

Call to learn how a Manure Filtration System can help your farm. We will assess your current situation and recommend the best solution for you.



TESTING Filtration

We will pilot test your manure at our facility in Michigan and provide 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

The filtration system will become an integral part of your facility and allows you to streamline and expand your operations, reduce water use, and use or sell a concentrated fertilizer product.

MANURE FILTRATION RESULTS

PARAMETER	UNITS	MANURE	UF FILTRATE	UF CONC.	TSRO CONC.
Dry Matter	%	4.21	1.95	9	3.76
Total Nitrogen	lbs / 1000 gal	26.9	16.7	45.6	10.5
Phosphorus (P2O5)	lbs / 1000 gal	26.9	0.3	21.1	0.4
Potassium (K2O)	lbs / 1000 gal	19.5	20.6	21.1	15.1

Data from filtering digested dairy manure after screw-pressing.

JUST ASK OUR CUSTOMERS...

- Digested Organic's solution is the right fit for our farm, allowing us to concentrate key nutrients for our crops into substantially less volume at a competitive operating cost—that means getting manure trucks off the road and reduced hauling costs. We also like the fact that it's highly automated, has a small footprint and is environmentally sustainable—something that is important to us and to our community.



- Dean Strauss

Owner of Majestic Crossing Dairy