Nitro

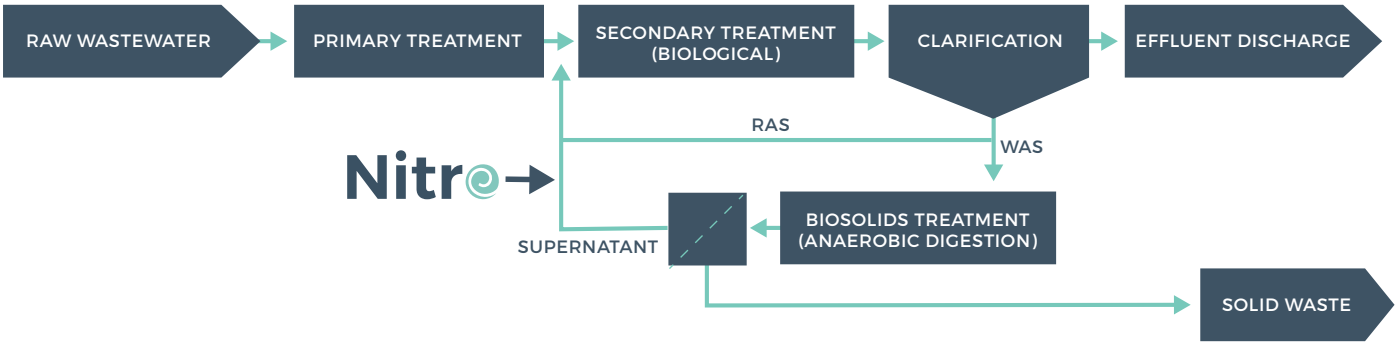
Small footprint. Large impact.

Energy-efficient shortcut nitrogen removal for high-strength wastewater.
Powered by MABR technology.

Perfect for high nitrogen containing streams like...

- Anaerobic digestion and co-digestion
- Leachate
- Compost
- Swine and cow farms
- Fertilizer

Typical Process Diagram



Why Nitro?

Energy Efficient
Uses 40% less energy than conventional nitrogen removal processes

Seamless
Non-invasive installation, one-pass, low maintenance, simple-to-operate.

Powerful
More than 90% TIN removal can be achieved. Eliminates up to 20% of total nitrogen load to the plant.

Robust & Resilient
Biofilm process protects from load shocks and low temperature.

Sustainable
GHG emissions reduced, ultra-low energy.

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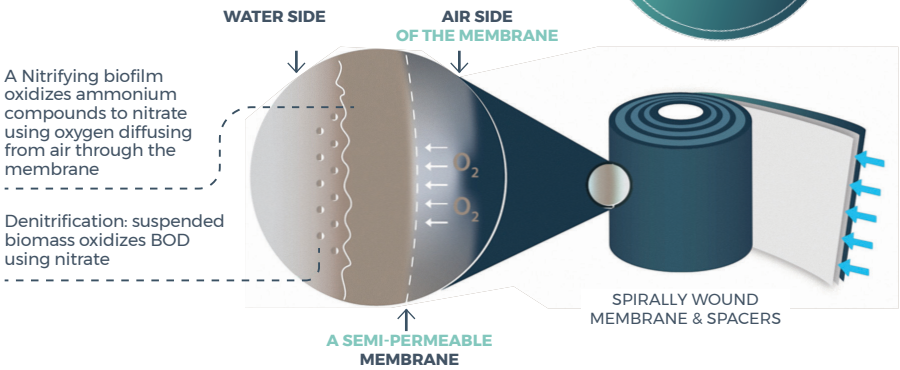
Value from Water

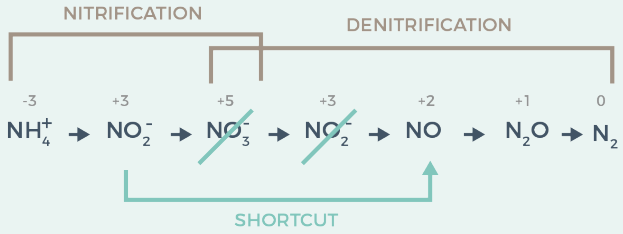
Nitro How it works

15 years membrane prorated guarantee

MABR Technology

The MABR unique biological process enables simultaneous BOD, TN and TP removal, all in a single pass supported by highly efficient passive aeration which results in up to 90% less energy required for aeration.



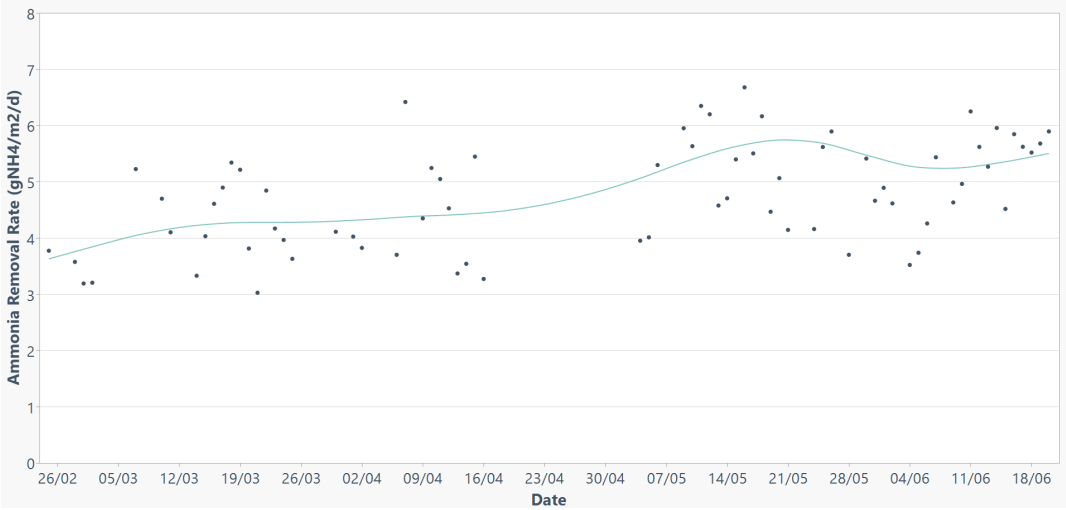


Shortcut Nitrogen Removal

The shortcut nitrogen removal process saves energy by converting ammonia to nitrite, and then directly to nitrogen gas, skipping the conversion to nitrate in between.

High Ammonia Removal Rate

Nitro plants achieve high ammonia removal rates resulting in very high effluent quality.



Proven Track Record

Fluence has successfully deployed over 280 MABR plants around the world.

All installations have reliably and consistently delivered high effluent quality with low energy consumption and rapid deployment.

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Value from Water