

# NutriTec<sup>®</sup><sub>N</sub>

## Resource recovery

More ammonia, less emissions,  
high quality nutrients



### Why use Sustec NutriTec<sup>®</sup><sub>N</sub>?

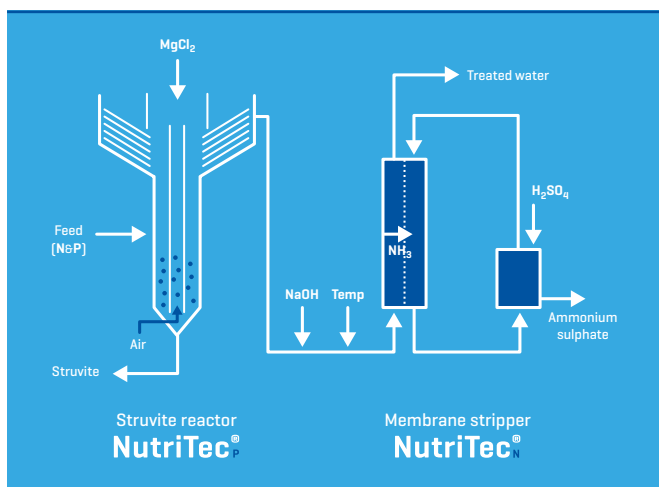
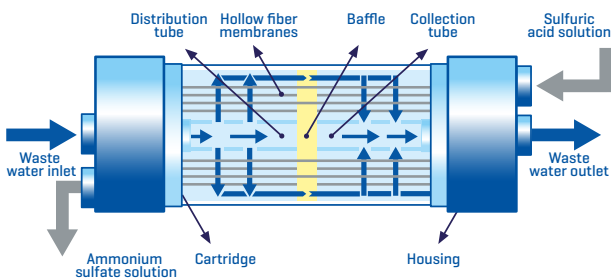
- capable of handling high concentrations of  $\text{NH}_3$
- insensitive to biologically inhibitive or toxic components
- no emissions of  $\text{N}_2\text{O}$  from the process
- operation at moderate pressures and temperatures
- modular, skid mounted construction

### Sustec, your specialist in sustainable energy and resource recovery

Sustec – part of the DMT group – is dedicated to provide sustainable technologies for a circular economy. With a focus on resource recovery and thermal hydrolysis processes, we offer our customers cost effective solution with our innovative NutriTec<sup>®</sup> and advance TurboTec<sup>®</sup> technologies. With our NutriTec<sup>®</sup> equipment, we can efficiently and effectively recovery phosphorous and nitrogen with the lowest environmental impact. Furthermore, Sustec is a reliable partner and market leader in the field of continuous thermal hydrolysis technologies for municipal and industrial sludge treatment. We offer our clients higher yields of biogas, reduced sludge volumes and the possibility for high quality sludge recovery for agricultural applications.

## From effluent to fertilizer

The Nutritec®N technology can be used to recover nitrogen from reject water, concentrated industrial wastewaters or even separately collected urine. Ammonium is recovered via a hydrophobic membrane stripping process that captures ammonia in a sulfuric acid solution to produce ammonium sulphate. Due to a concentration gradient and a difference in partial pressure of ammonia, a mass transfer through diffusion across the membrane takes place. In wastewater, this partial pressure can be increased by elevated pH and temperature. Benefits of this process are its compactness and little energy demand. The recovered ammonium sulphate solution can be used as fertilizer.



### Optional features

- Advance pre-treatment
- Temperature adjustments
- CO<sub>2</sub> stripper
- pH adjustments
- Skid mounted
- Combination with TurboTec®

Please visit our website for more information and references, or scan this QR code to go to the Water Treatment page: [www.dmt-et.com/products/water-treatment](http://www.dmt-et.com/products/water-treatment)



**Our challenge**  
**To create a clear**  
**and prosperous future**

### DMT Environmental Technology

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