

Re-thinking MBR Performance

The T-CUT UF *Performance Line*



Outstanding Flux - Extended Service Life

**Reduce operating and capital costs -
with the new T-CUT UF Performance Line modules**

Compared to conventional market solutions, the **T-CUT UF Performance Line** delivers significantly longer-lasting, more stable operation, reduced cleaning demand, and a substantial increase in permeate flow - without compromising the microbiological balance of your membrane bioreactor (MBR) process.

At the same time, the optimally engineered membrane stage ensures overall process stability - including biological performance - even under fluctuating influent quality or variable flow rates. This results in consistently reliable plant operation with stable effluent quality and a high level of process security.

As a result, you can reduce operating costs through lower energy consumption as well as reduced maintenance and chemical usage, while also actively optimizing your capital expenditure during early-stage design and system engineering - leveraging the enhanced performance of our membrane modules.

Efficiency up - effort down!

„40% higher performance with the same permeate quality.“



„50% less cleaning effort, too good to be true.“



Membrane & Module Manufacturing

The CUT Production Facility in Erkrath

T-CUT UF Performance Line membranes are exclusively developed and manufactured at our facility near Düsseldorf. At the core of this new membrane is a modified polypropylene support structure. It transfers its inherent chemical stability and mechanical ductility to the composite material - delivering exceptional robustness and flexibility in the final product. This structure has been specifically engineered to enable the reliable application of the membrane layer.

The membrane itself features a homogeneous, sponge-like morphology, purpose-built for use in MBR processes. It strikes the ideal balance between high flux performance and precise separation efficiency. Its tailored surface activity ensures a stable separation process, significantly reduces fouling risk, and optimizes cleaning requirements.

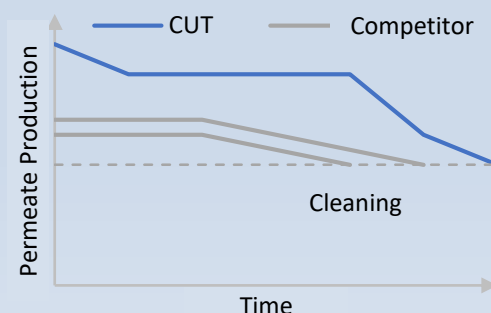
Because our modules are also produced in-house, we can adapt them to your specific TSS levels and hydraulic conditions at any time - simply by adjusting standard module and membrane geometries.

The result: a fully application-specific MBR solution that combines efficiency and flexibility, seamlessly integrating with your upstream and downstream processes.

T-CUT UF *Performance Line*

Backed by more than 20 years of experience, we develop innovative membrane solutions with unique properties that reliably meet even the most demanding filtration challenges.

Direct field comparisons clearly demonstrate the outstanding strengths of this new product generation:



Some selected specs:

Performance

Clean water flux: > 2.000 l/mh
MWCO: 30 nm

Pressure

Operation [max]: 10 bar

Temperatures

Operation [max]: 55 °C
Cleaning [max]: 60 °C

Tolerances/Cleaning

pH range: 1-13*
Chlorine: yes*
Backflush: yes*

Standard options: 4,3 m² - 72,0 m²

*Please check CUT data sheets for details

THE IDEAL SOLUTION FOR YOUR MBR SYSTEM



ABOUT US

As an independent manufacturer and service provider in the field of filtration membranes and module engineering, based in Erkrath/Düsseldorf, we have demonstrated our strong customer focus and passionate technical consulting expertise in countless projects since 2004. **CUT - THE MEMBRANE PEOPLE.**

Please feel free to contact us for more information at info@cut-membrane.com,
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