



cleaning  
systems  
for liquids



# Ultra- & Microfiltration

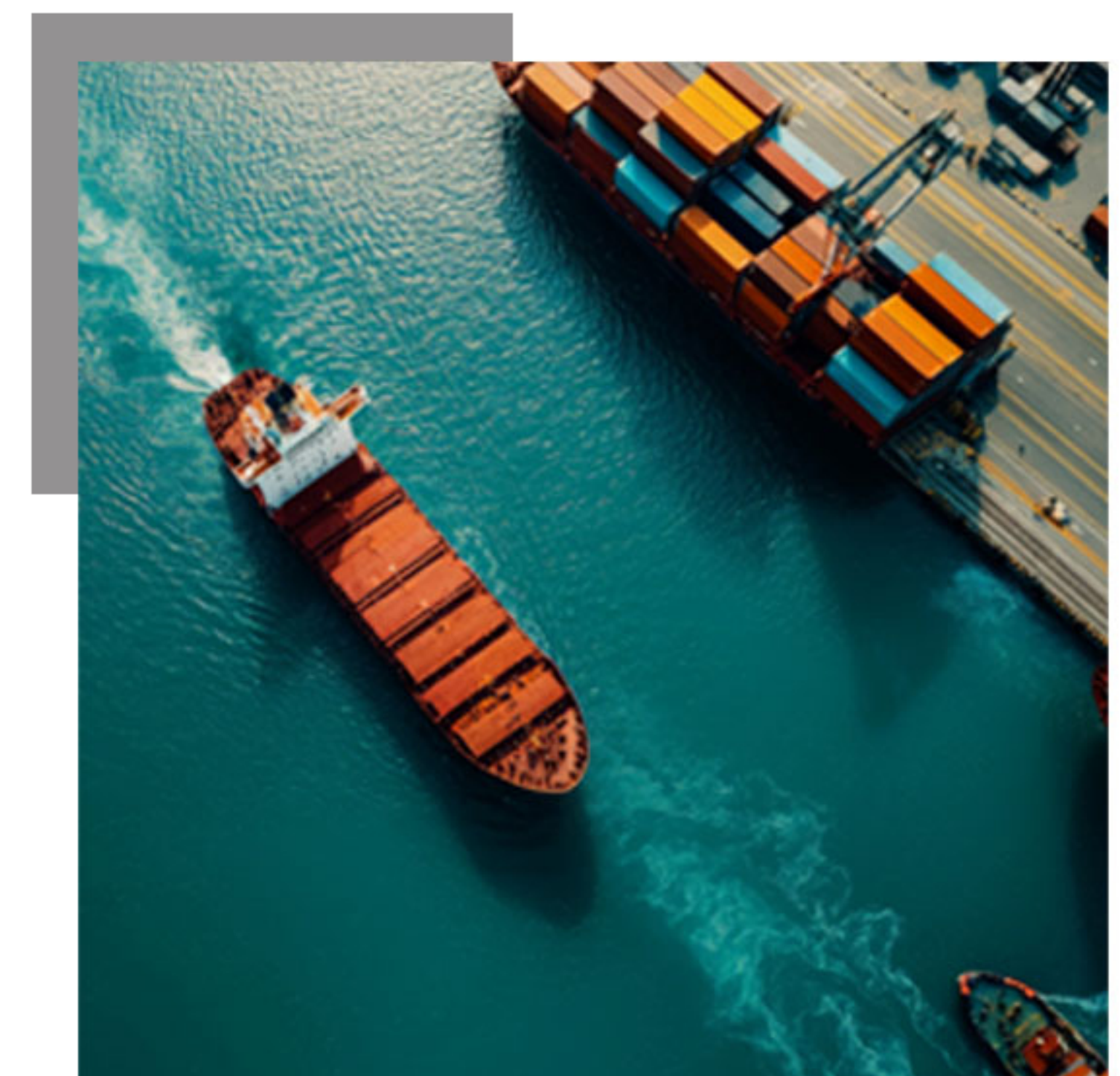
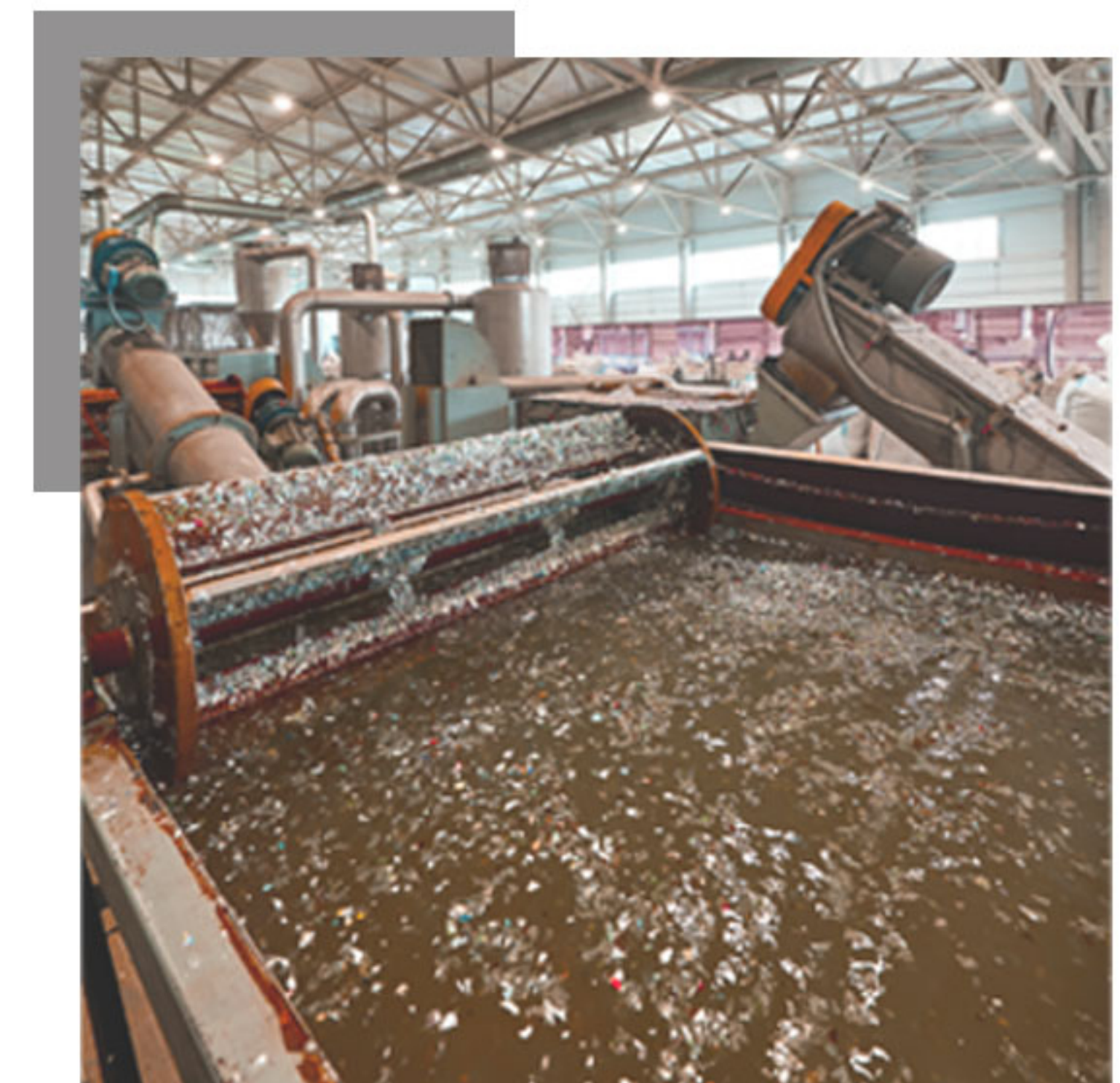
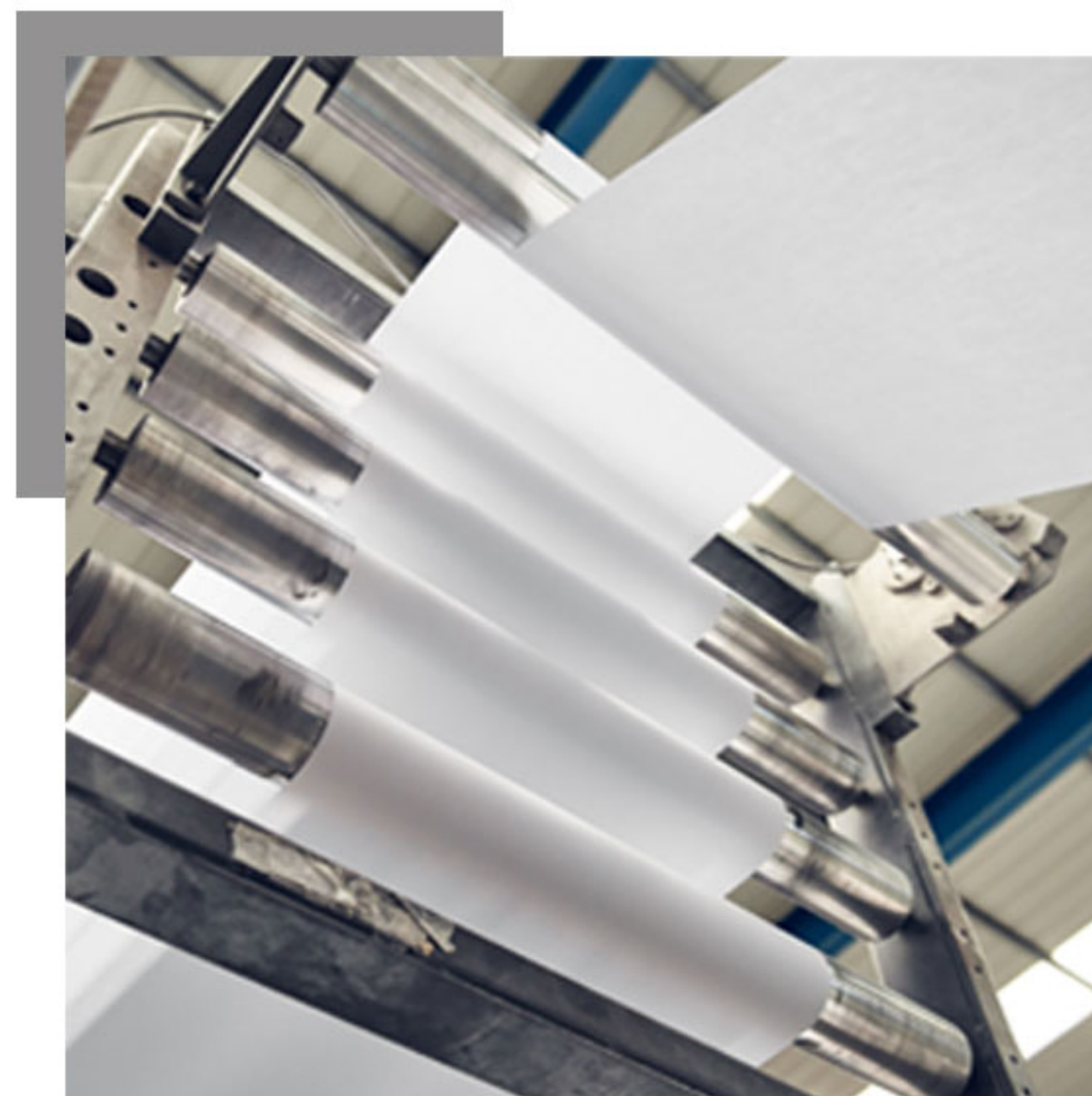
Systems for wastewater treatment with effective membrane filtration technology

# Membrane filtration - The perfect solution

Membrane filtration with ceramic ultra- or microfiltration membranes uses pore membranes to separate dirt, oil and fine particles from aqueous solutions. The sieving effect of the membrane is used. This means that large molecules, particles and even oil droplets cannot pass through the membrane and collect in the concentrate. The filtrate, on the other hand, is free of these contaminants and can be returned to the application, e.g. in degreasing or washing processes. Emulsions can also be split in this way. Safe and reliable treatment of the process medium is always ensured by separating the dirty water from the clean filtrate, and the use of stainless steel pressure pipes and high-quality system components guarantee a long service life of the membrane system. Operator intervention is not necessary due to the automated process.

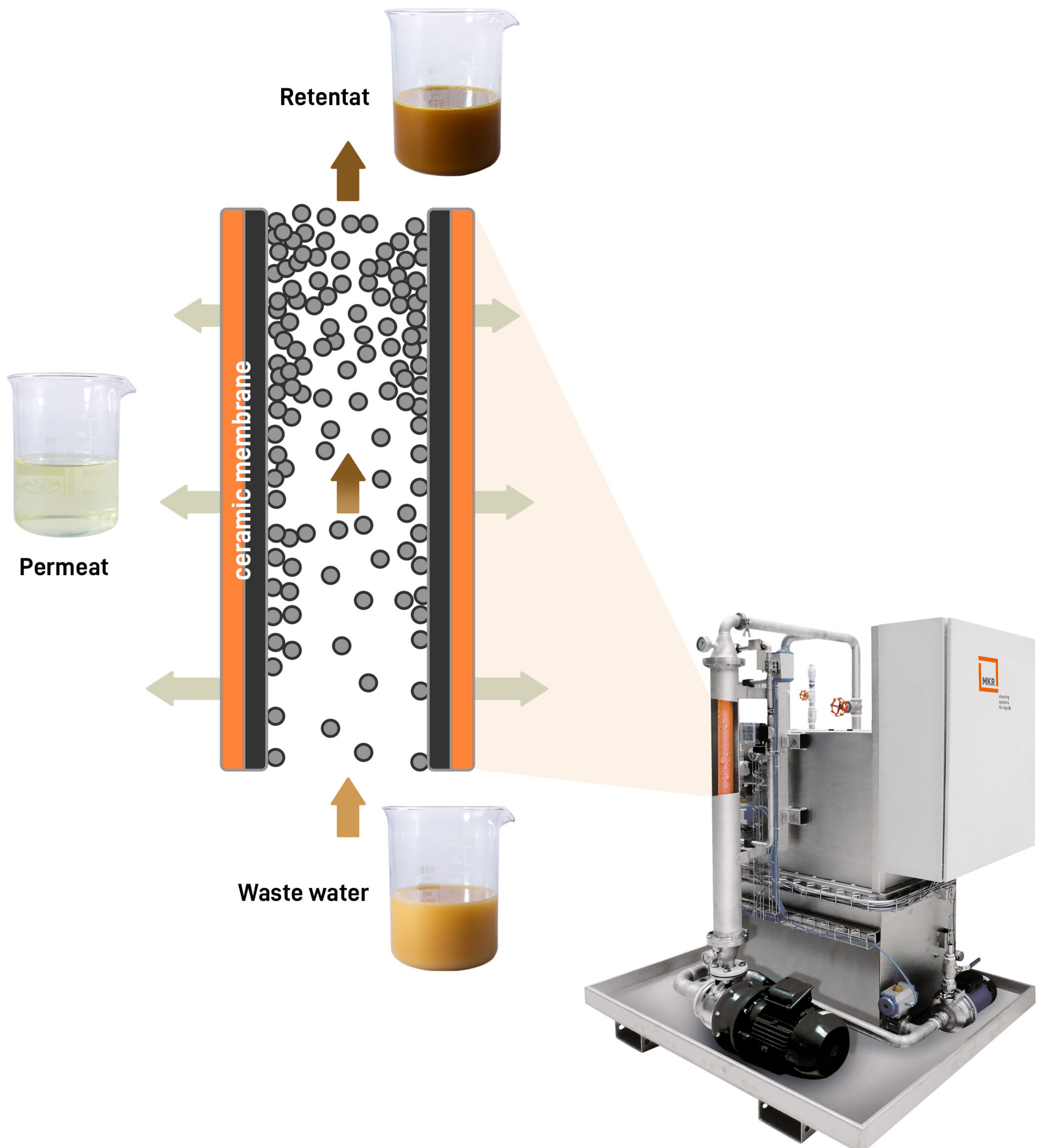
## Fields of application:

- Metalworking
- Paper industry
- Surface technology
- Biotechnology
- Printing applications
- Textile industry
- Marine applications
- Pharmaceutical industry



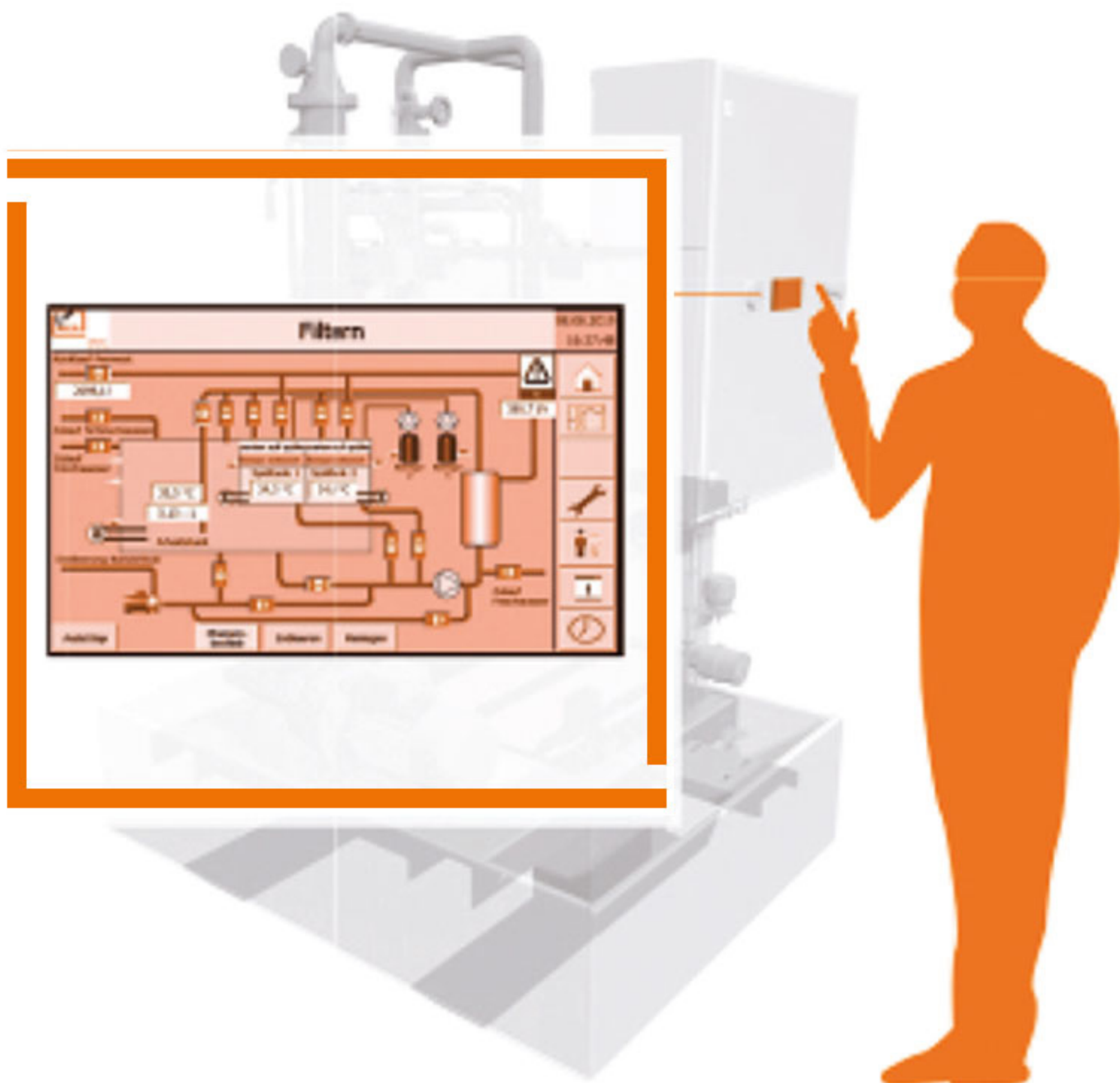
# Technology made of Stainless Steel and Ceramic

In addition to their long service life and temperature resistance, ceramic membranes are particularly characterized by their special surface and asymmetrical basic structure. Substances that cannot penetrate the membrane are effectively retained on the surface and do not enter the membrane matrix. This enables efficient separation of oils, emulsified oils and particles with a size of  $0.01\ \mu\text{m}$  to  $1.00\ \mu\text{m}$ .



# Highlights

- High efficiency
- Chemically Stable
- long lifespan
- High retention
- Pressure and heat resistance
- Inert material



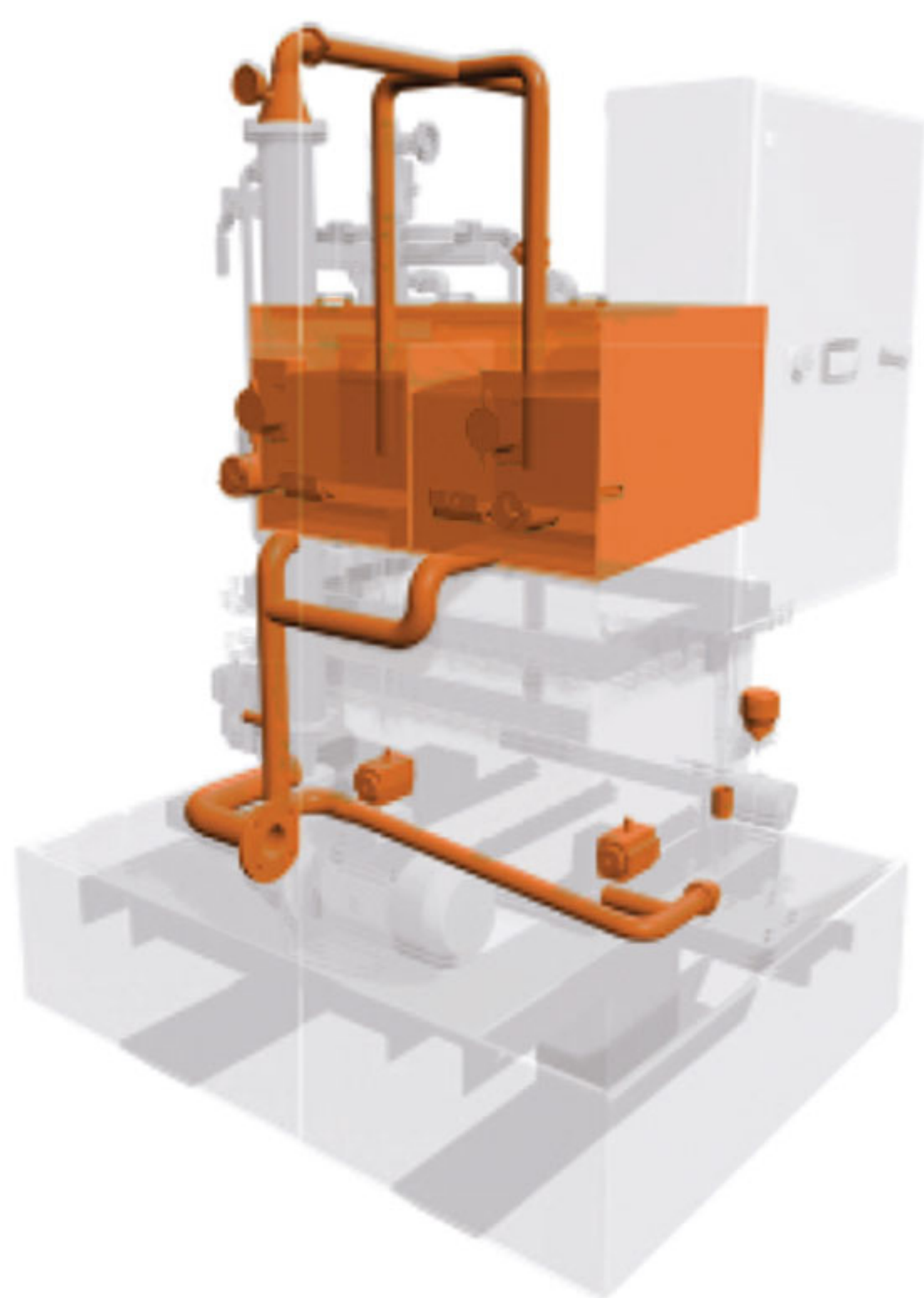
## INTUITIVE SYSTEM CONTROL

The intelligent and intuitive system control provides an automatic process with variably adjustable operating parameters for an optimal process.



## MODULAR FILTER SYSTEM

The modular system offers a filter area of 1 to 48 m<sup>2</sup>. The permeate capacity varies from 100 to 10,000 l/h. The membrane filter ceramics are available in different designs.



## LOW CARE REQUIREMENTS

Low and convenient maintenance effort of the system, thanks to the integrated automatic self-cleaning for acidic and alkaline cleaning cycles.



## ADJUSTABLE FILTER FINENESS

Easy use of different filter finenesses possible by changing the ceramic membranes, covering the areas of micro-, ultra- and parts of nanofiltration.

# Dimensions and Performance



UC Series		UC 1	UC 2	UC 3	UC 4
Working tank	l	300	300	300	600
Rinsing tank (on 2x)	l	50	50	50	80
Output, permeate	≈ l/h	100 - 300	200 - 600	300 - 900	400 - 1200
Length	mm	1800	1800	1800	2000
Width	mm	1350	1350	1350	1800
Height	mm	2400	2400	2400	2700
Weight	kg	650	690	700	930
pH-value*	pH	4 - 13	4 - 13	4 - 13	4 - 13
Temperature*	°C	< 65	< 65	< 65	< 65

UC Series		UC 6	UC 8	UC 12	UC 16
Working tank	l	600	1000	1500	1000
Rinsing tank (on 2x)	l	80	150	200	150
Output, permeate	≈ l/h	500 - 1800	600 - 2000	700 - 3000	800 - 4000
Length	mm	2000	2600	2900	2600
Width	mm	1800	2300	2500	2300
Height	mm	2700	2700	2800	2700
Weight	kg	950	1500	2200	1800
pH-value*	pH	4 - 13	4 - 13	4 - 13	4 - 13
Temperature*	°C	< 65	< 65	< 65	< 65

UC Series		UC 24	UC 48
Working tank	l	1500	2000
Rinsing tank (on 2x)	l	200	250
Output, permeate	≈ l/h	2400 - 5000	4800 - 10 000
Length	mm	2900	4800
Width	mm	2500	2000
Height	mm	2800	2800
Weight	kg	2500	3300
pH-value*	pH	4 - 13	4 - 13
Temperature*	°C	< 65	< 65



\*Higher values on request  
 UC intermediate sizes on request  
 Subject to technical changes  
 exact performance values are determined using laboratory tests

# The Success Story

## Tradition becomes Innovation



**2023**  
ET MaXx ZLD  
ET MaXx ZLD



**2001**  
Fremdölabscheider  
Tramp Oil Separator



**1997**  
Verdampfer  
Evaporator



**1996**  
Ultrafiltration  
Ultrafiltration



**1992**  
Zentrifugen  
Centrifuges



**1990**  
Saug- und Filterwagen  
Suction- and Filter Cart



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