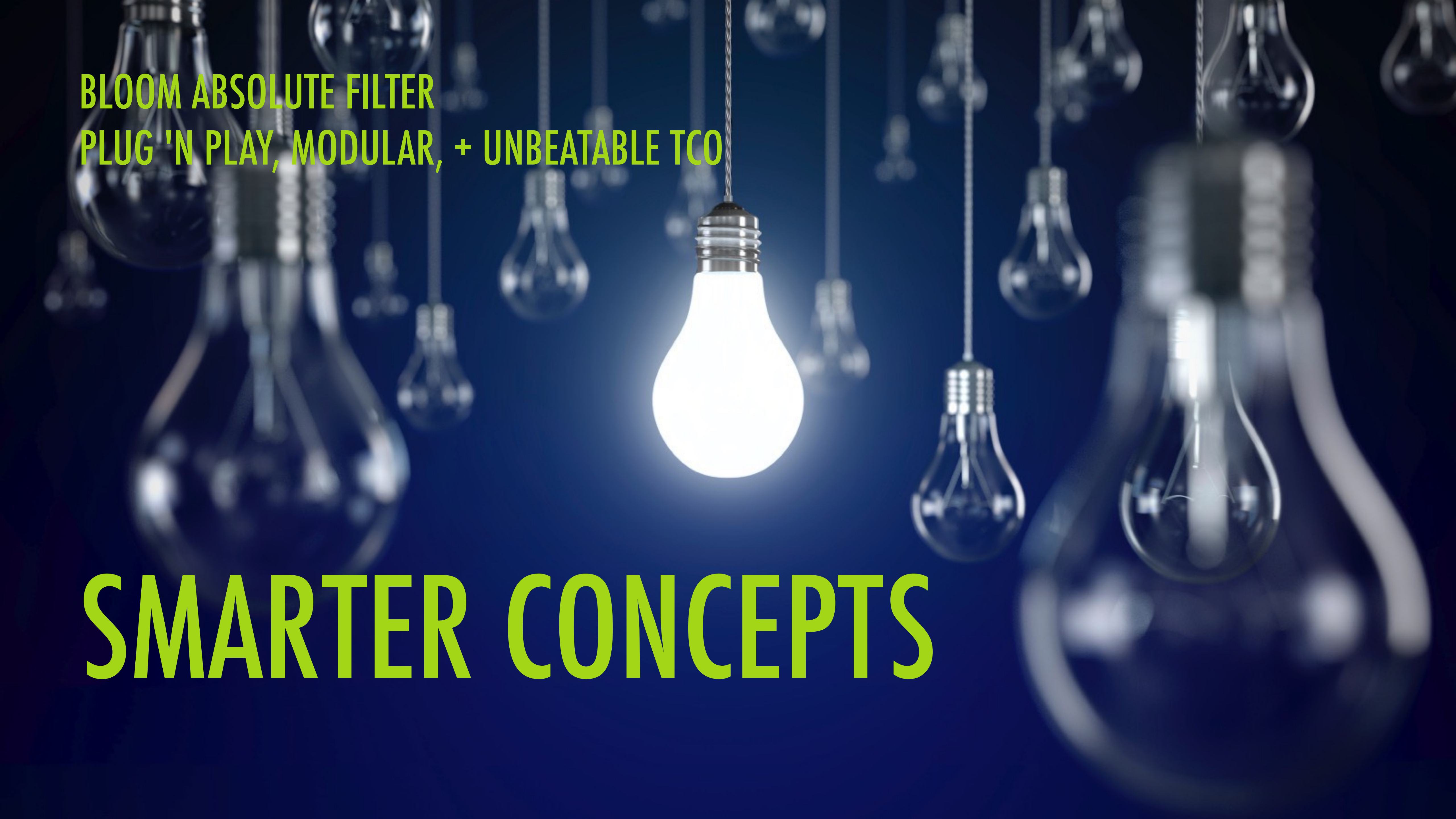


The background of the entire image is a dark blue gradient. Numerous incandescent lightbulbs are suspended from the top by thin wires. One lightbulb in the center is turned on, emitting a bright white glow that fades into the blue background. All other lightbulbs are unlit and appear as dark, out-of-focus shapes. The text is overlaid on the upper left and bottom center of the image.

**BLOOM ABSOLUTE FILTER
PLUG 'N PLAY, MODULAR, + UNBEATABLE TCO**

SMARTER CONCEPTS

PERFECT FIT FOR ZLD

ADVANTAGES AT A GLANCE

B



The only filter that arranges the finest glass beads in the densest packing to make peak performance almost inevitable:

- ♻ Absolute filter rating down to 3 micron
- ♻ Certified $\geq 99,9\%$ - after single pass
- ♻ High-flux 10m³/h per filter
- ♻ Low pressure drop

Fully back-washable in just seconds for a long and relaxed service life

- ♻ Closed water loops
- ♻ Minimised resource consumption
- ♻ No filter waste
- ♻ No down time,
- ♻ Money saved

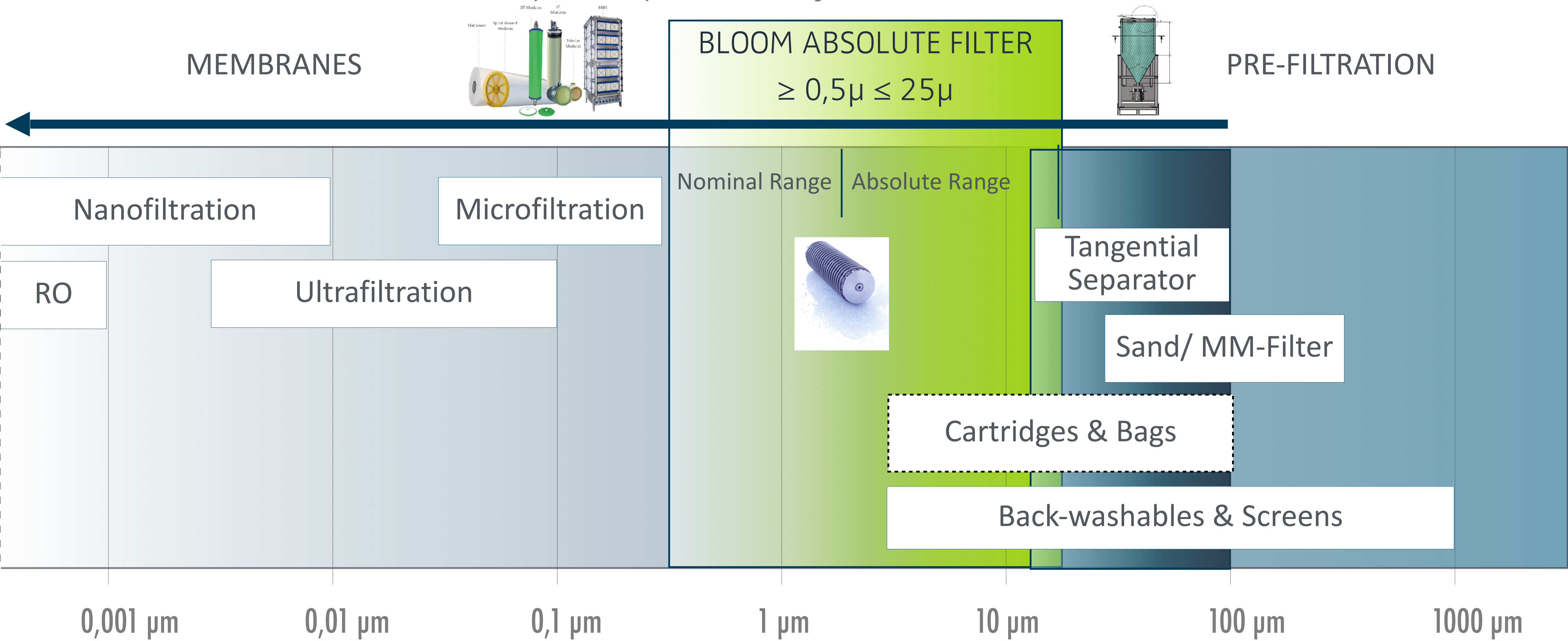
Patented, proven, and probably the best filter on the planet.

OPTIMAL PROTECTION FOR MEMBRANES DOWNSTREAM

TESTED + PROVEN APPLICATIONS



The Bloom Absolute Filter is an optimal protection for all downstream membranes and EDI.



BLOOM STANDARD

ADVANTAGES DES BLOOM ABSOLUTFILTERS

Filter area: 550 cm² (L=320 mm, ϕ = 100 mm,
Fitting: 1 1/4" Milk / Dairy pipe fitting)

Material*: 1.4404 and lead-free glass

Sealing: NBR

Filter gauges*: 5 μ m, 10 μ m, 25 μ m und 50 μ m

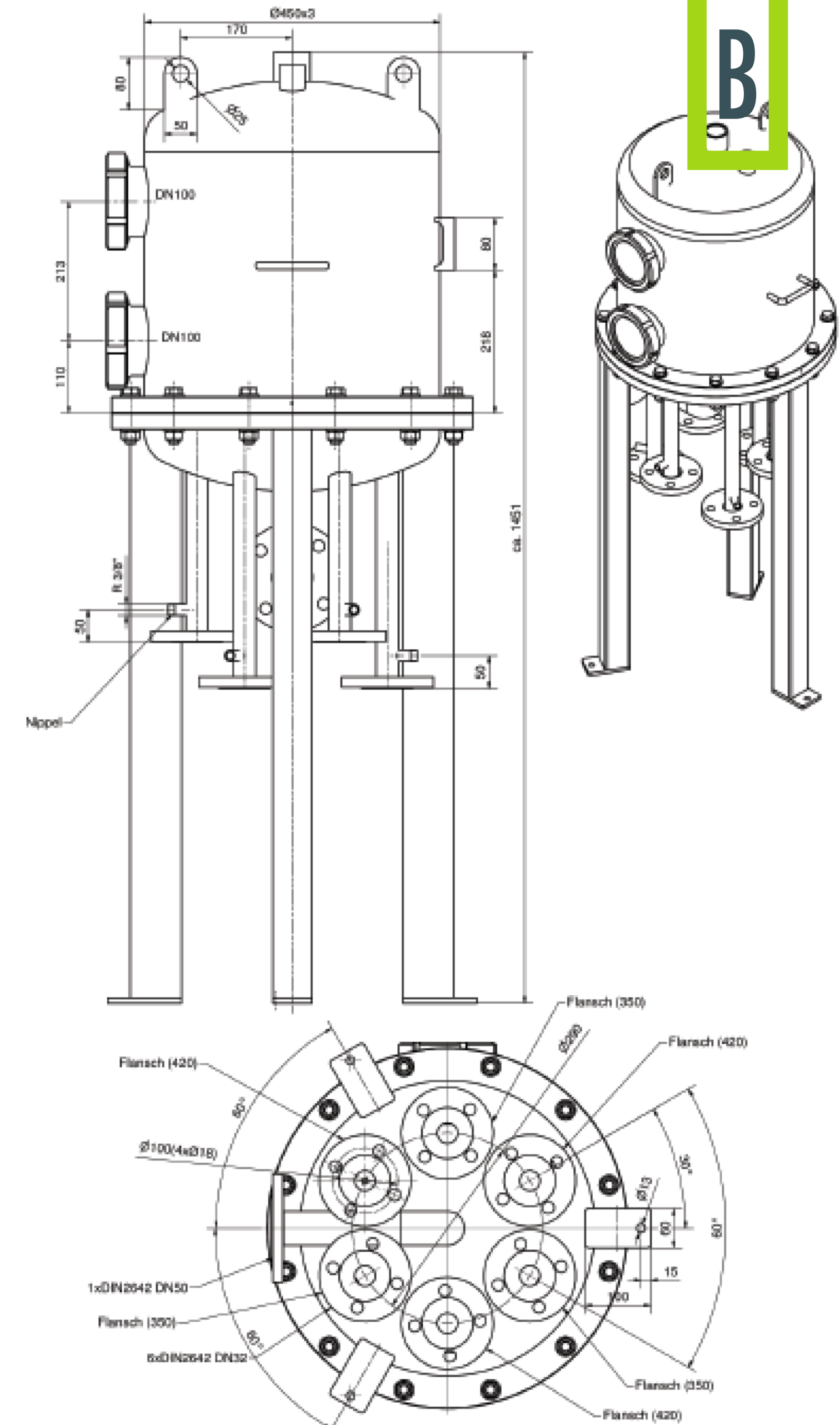
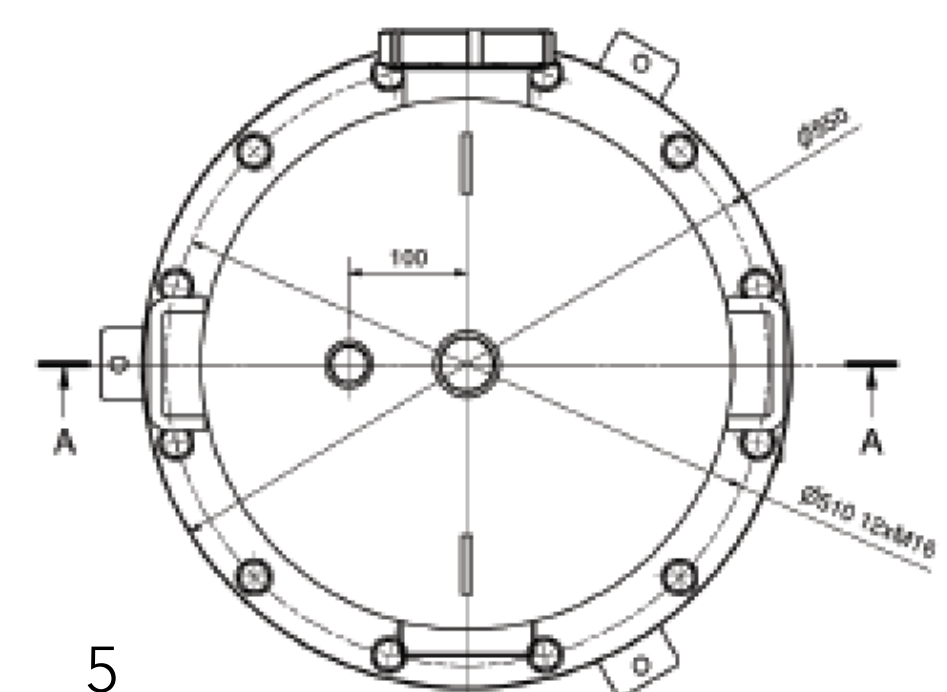
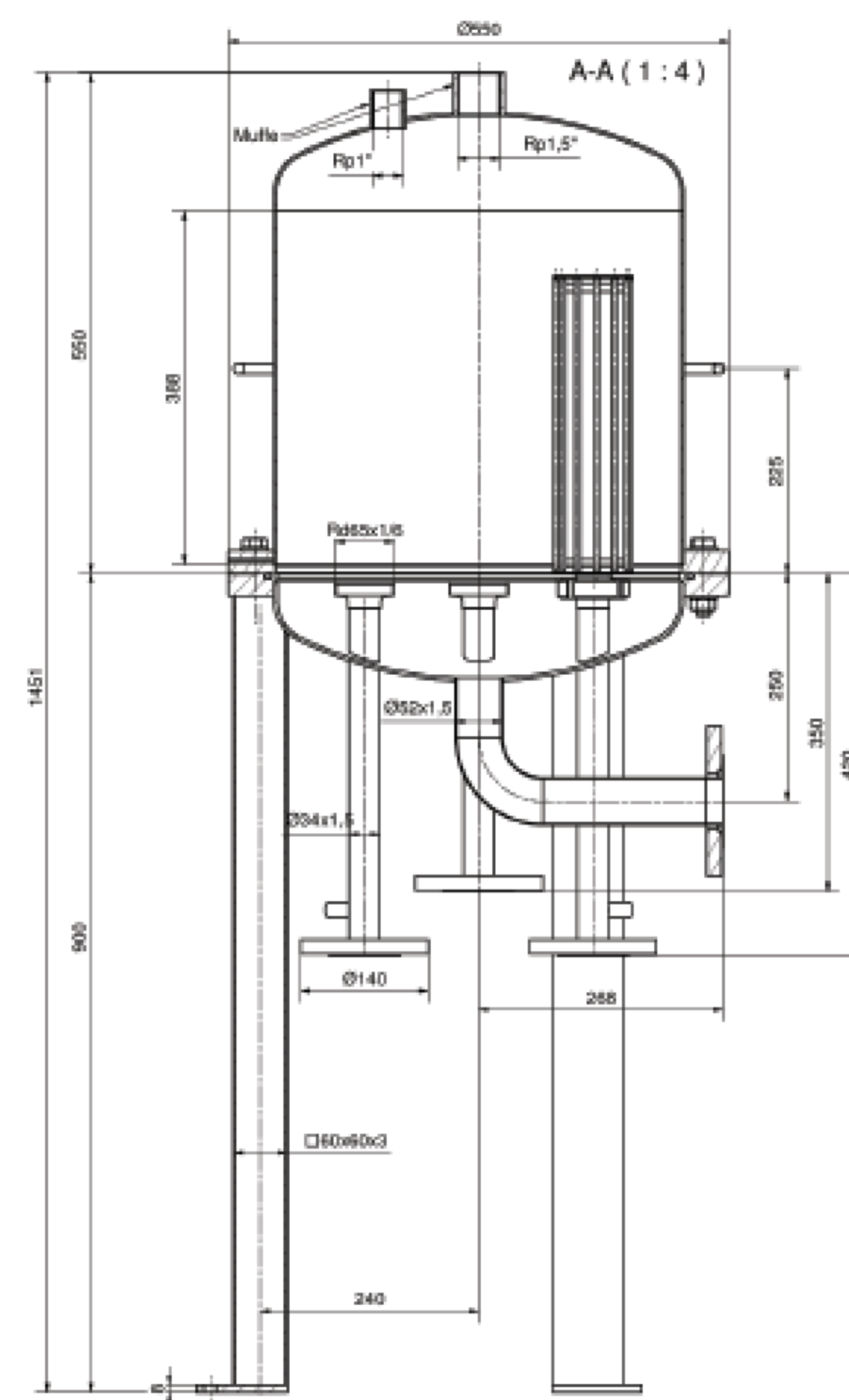
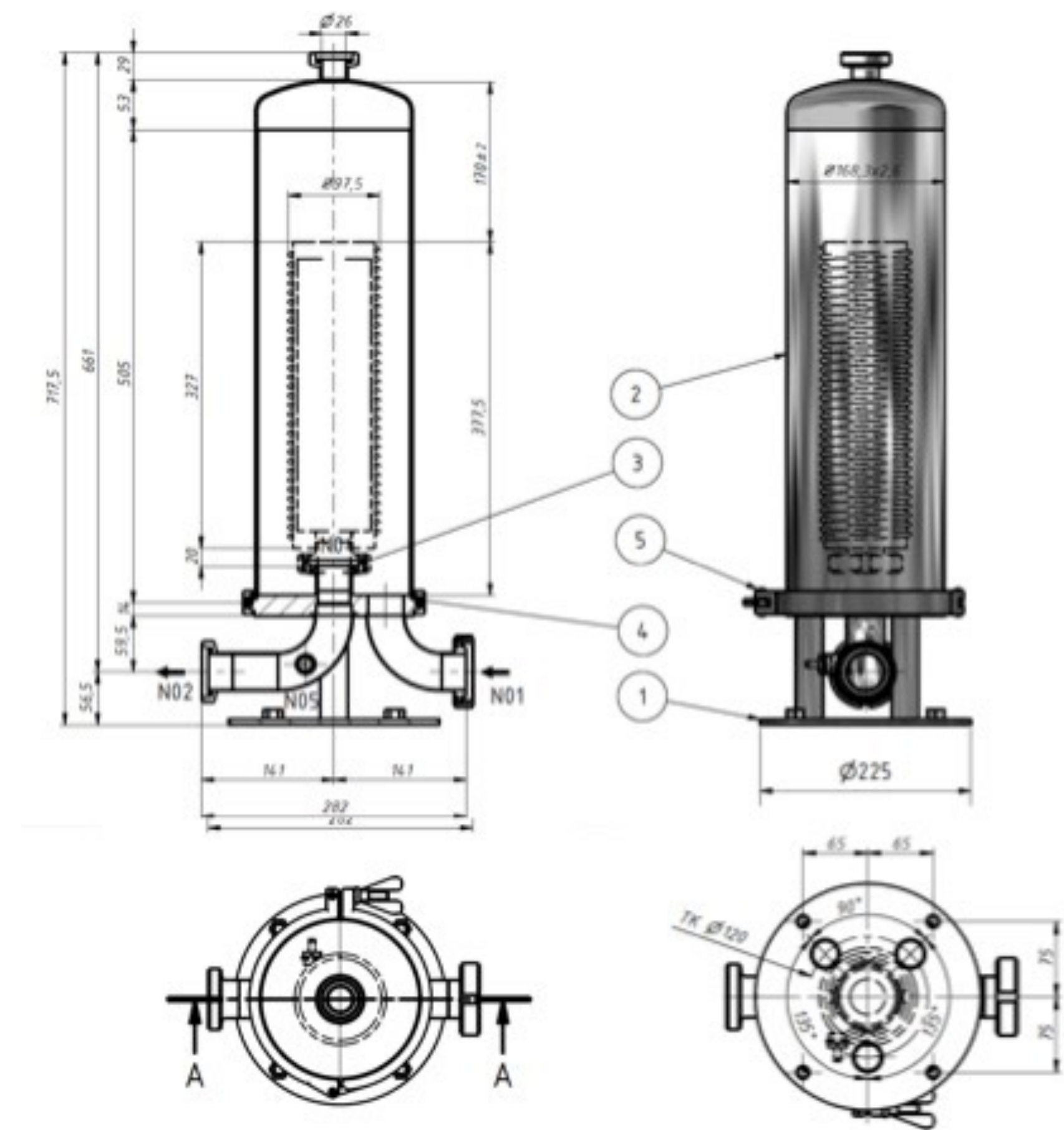
*Special materials and alternative filter gauges on request



BLOOM ABSOLUTFILTER + HOUSING

BLOOM STANDARD

Depending on the needs of the customer, a variety of filter housings can be offered.



BLOOM FILTER PILOT SYSTEMS

Test systems are available for pharmaceutical, F&B (top centre) as well as for general industrial applications (bottom left). All are fully automated and made of stainless steel.



APPLICATIONS + REFERENCES

SUSTAINABILITY IS WHEN IT'S SMARTER

PHARMACEUTICAL + CHEMISTRY

- 🔄 Pre-filtration and Polishing
UPW & WFI

POWER INDUSTRY

- 🔄 Boiler Feed Make Up
- 🔄 Condensate Treatment
- 🔄 Flue-Gas Scrubber Waste
water

MINING, OIL&GAS

- 🔄 Metal reclamation from spoil heaps
- 🔄 Re-injection of produced water



AUTOMOTIVE

- 🔄 Coating
 - ✕ Rinse-water
 - ✕ Process-bath
- 🔄 Metalworking
 - ✕ High-Pressure Water
Jet Cutting

ENGINEERED WOOD PRODUCTS

- 🔄 Pre-filtration in Wastewater RO
- ✕ Recycling of Lignin

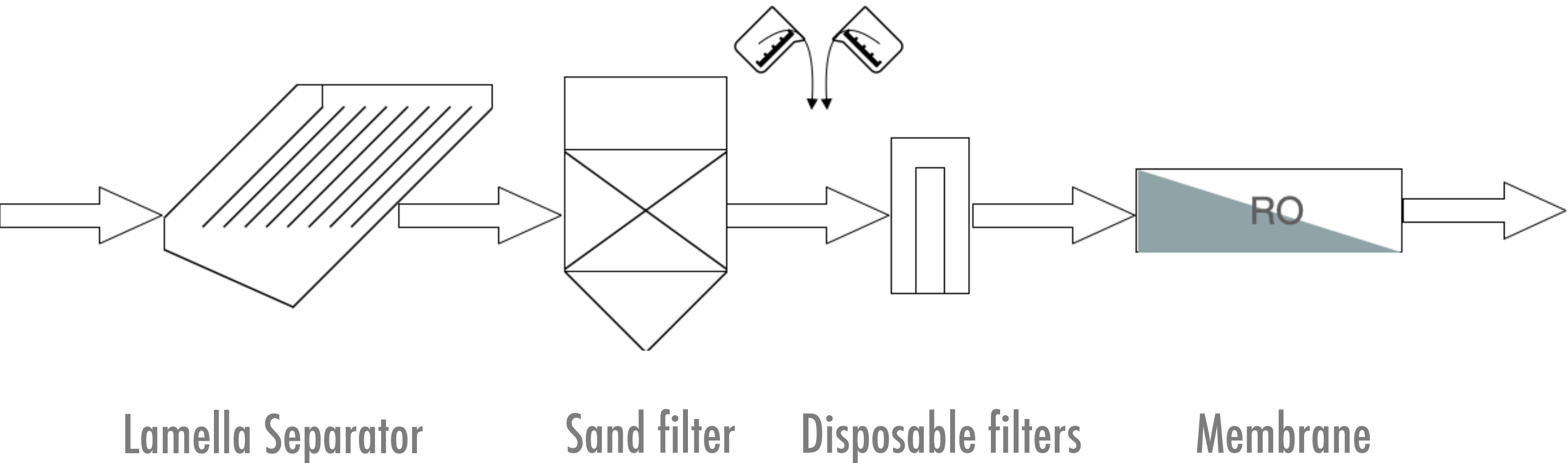


GROUND WATER MAKE UP

SUSTAINABLE + SMARTER CONCEPT

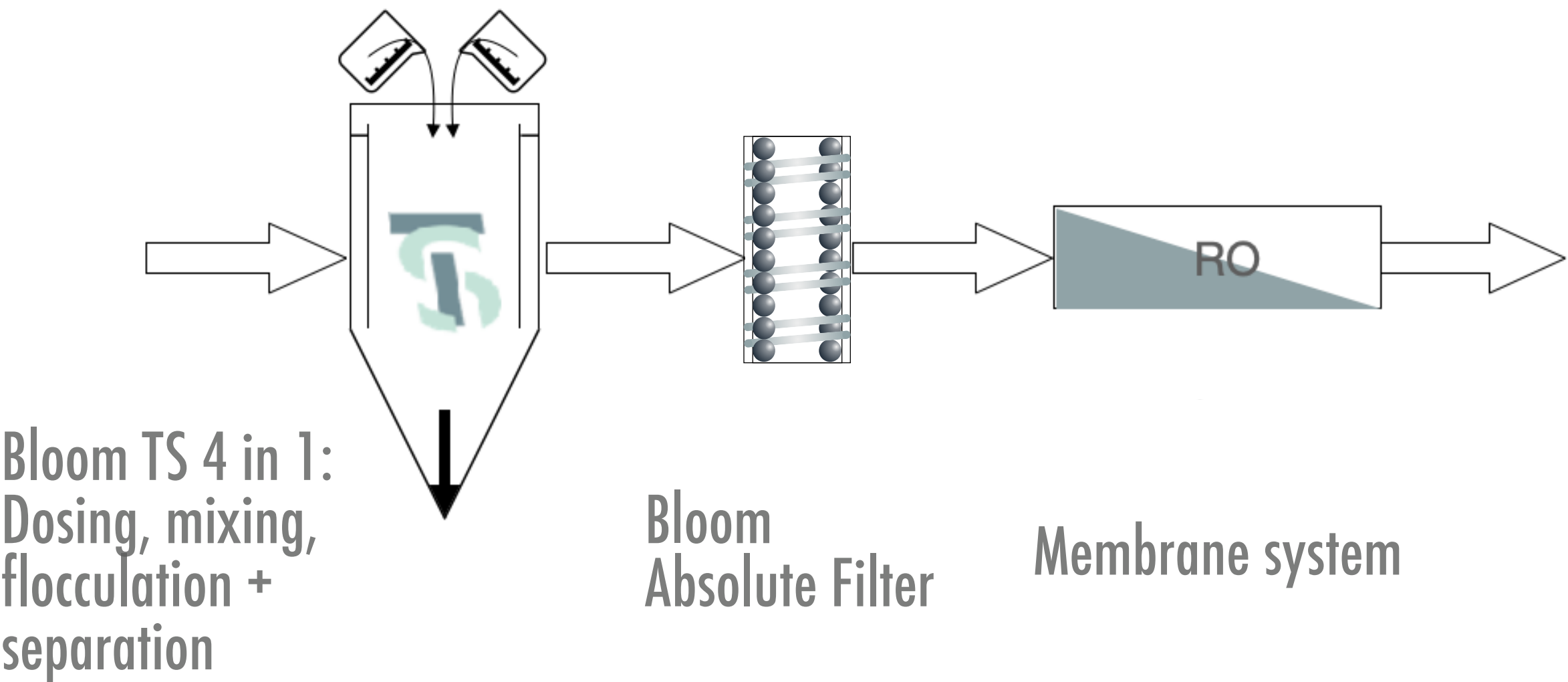


TASK: SUSTAINABLE + SMARTER CONCEPT



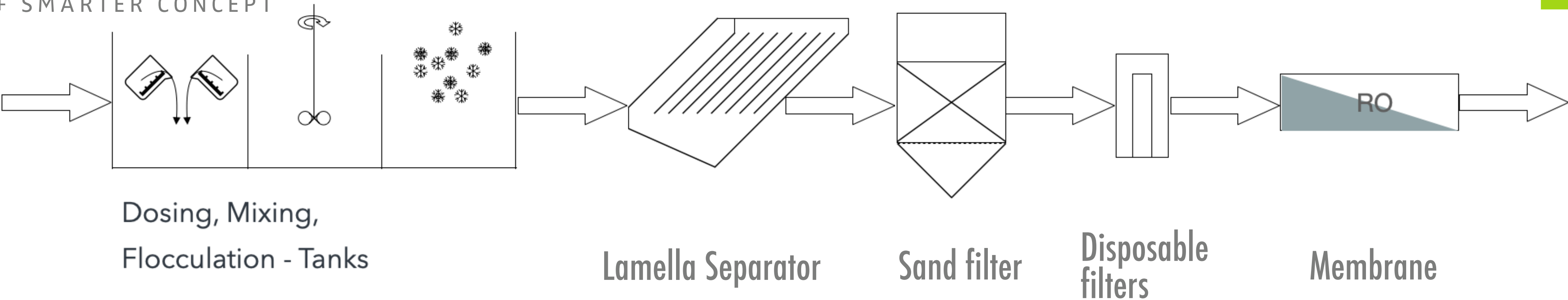
SOLUTION:

- ♻️ simpler, smaller,
- ♻️ less cost +
- ♻️ optimal protection for all processes downstream (membrane and EDI)



SURFACE WATER MAKE-UP

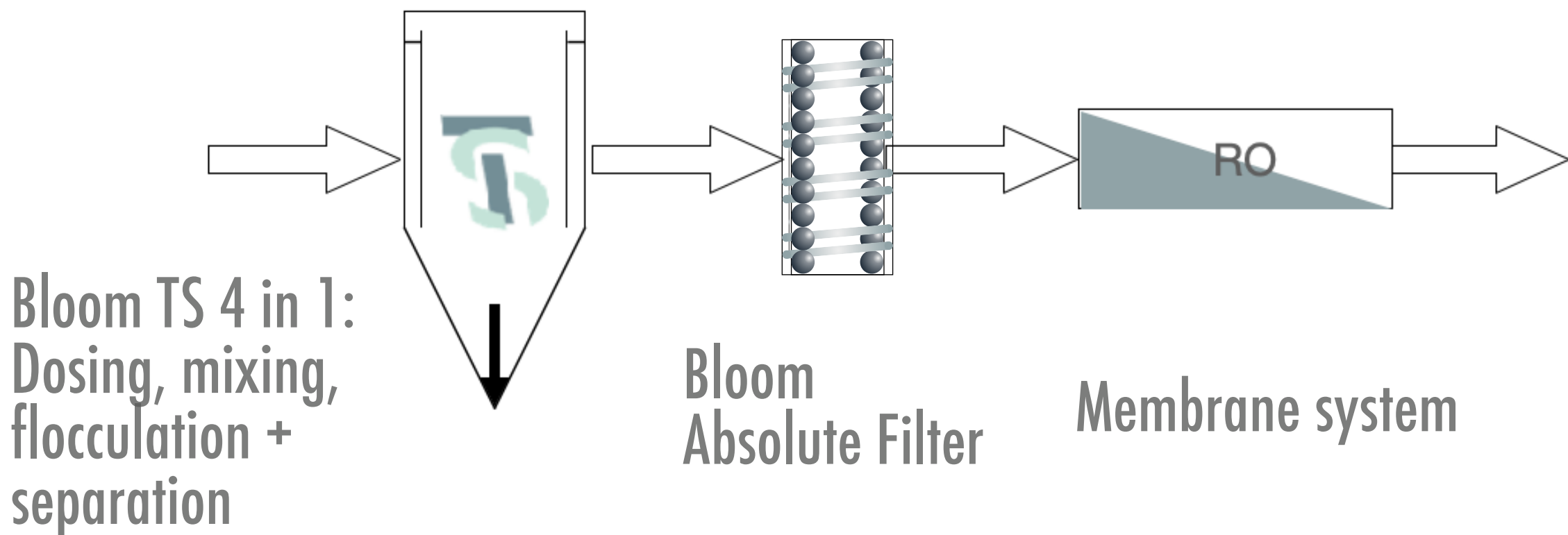
SUSTAINABLE + SMARTER CONCEPT



TASK: SUSTAINABLE + SMARTER CONCEPT

SOLUTION:

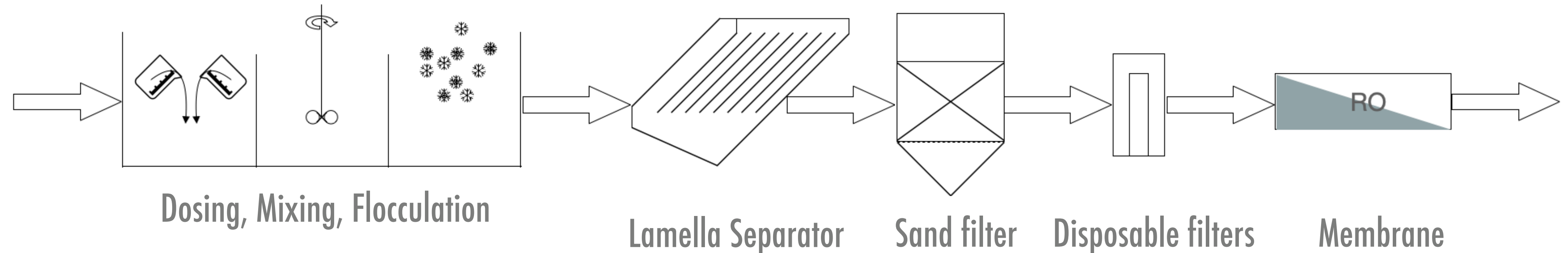
- 🔄 simpler, smaller,
- 🔄 less cost +
- 🔄 optimal protection for all processes downstream (membrane and EDI)



TREATMENT OF PROCESS FLUIDS IN INDUSTRIES

SUSTAINABLE + SMARTER CONCEPT

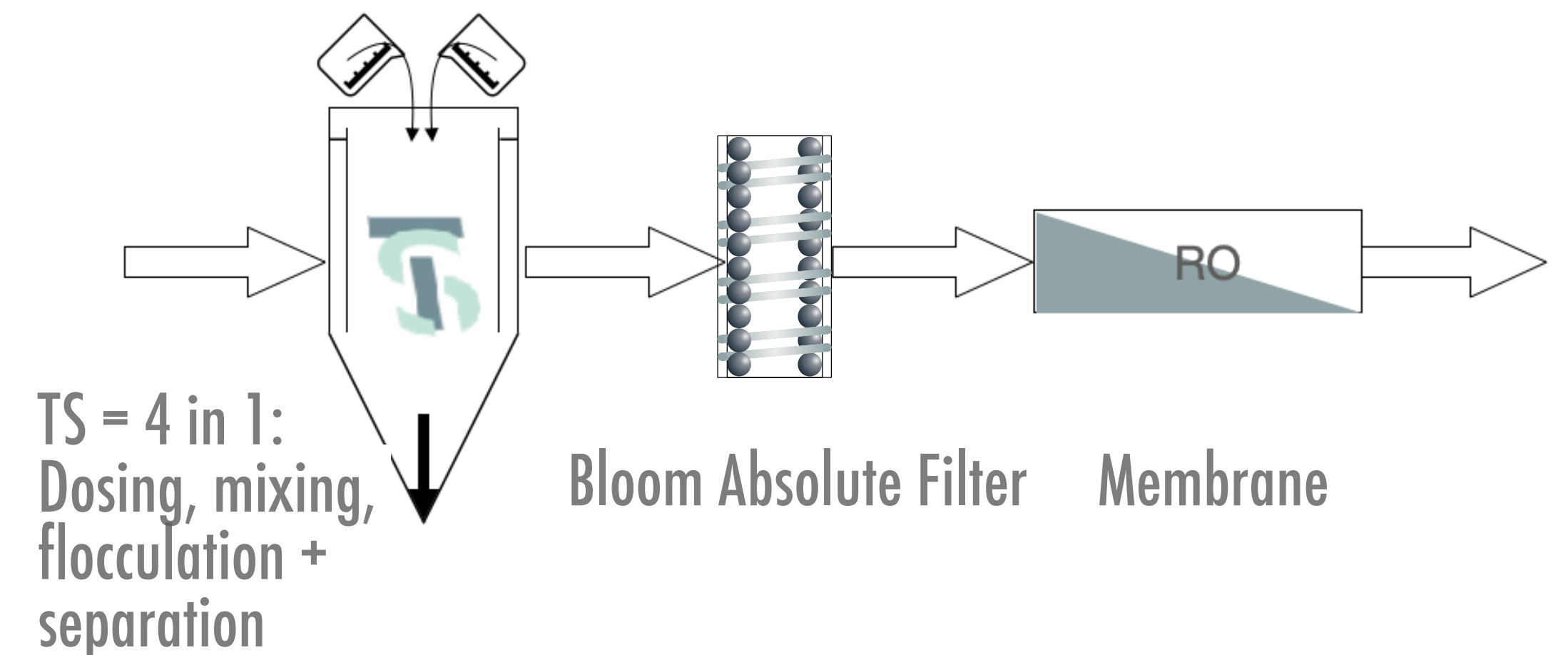
B



TASK: SUSTAINABLE + SMARTER CONCEPT FOR CHEMICAL INDUSTRY, AUTOMOTIVE, OIL + GAS...

SOLUTION:

- ♻️ Smaller + simplified
- ♻️ Higher flow + absolute quality
- ♻️ less cleaning, no downtime + no waste from disposable filters
- ♻️ Optimum protection for downstream treatment (Membrane + EDI)
- ♻️ Closed loop + less operational costs



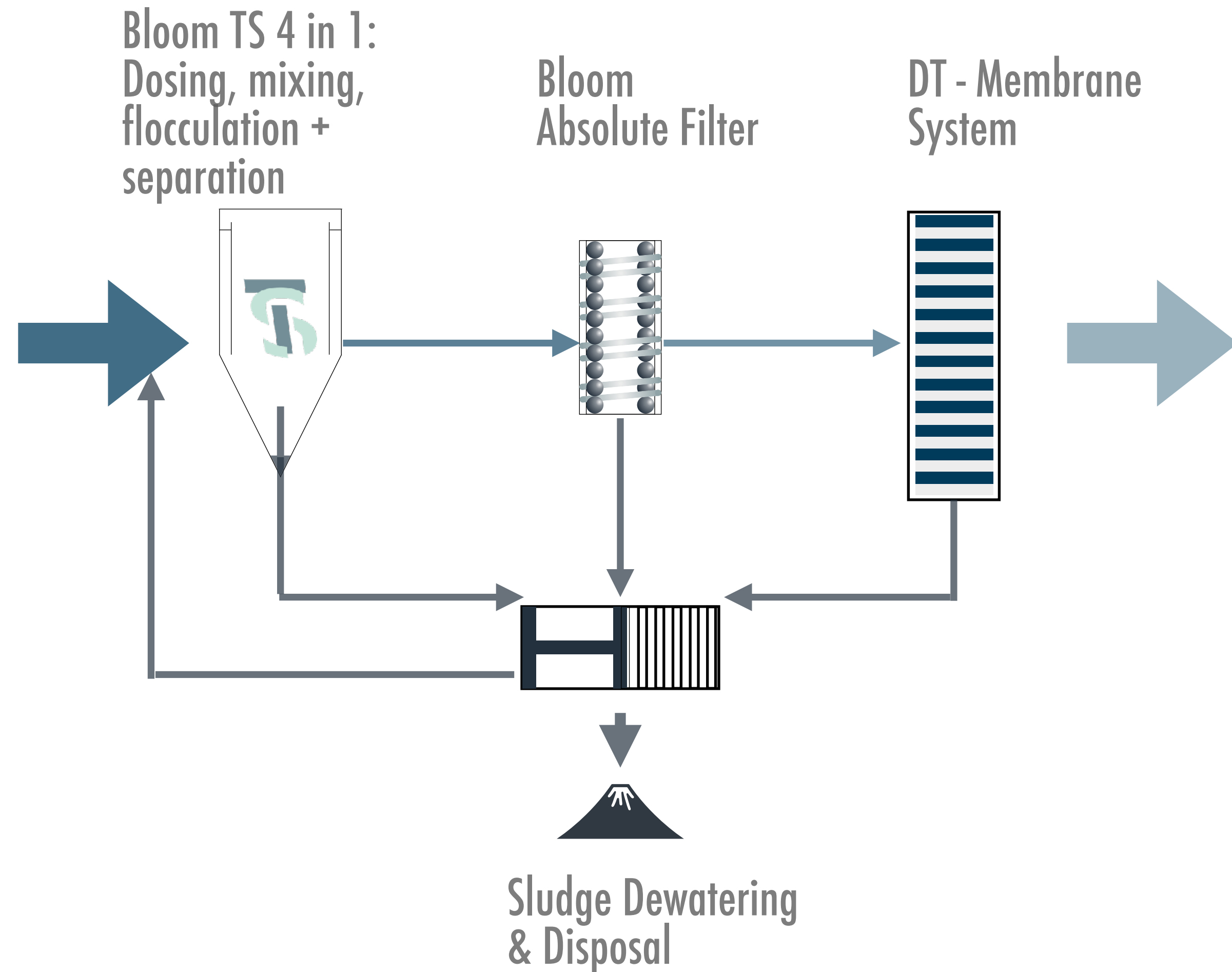
LANDFILL LEACHATE

SUSTAINABLE + SMARTER CONCEPT

TASK: PROTECTING DELICATE DT-MODULES WITH BLOOM ABSOLUTE FILTER PRE FILTRATION

SOLUTION:

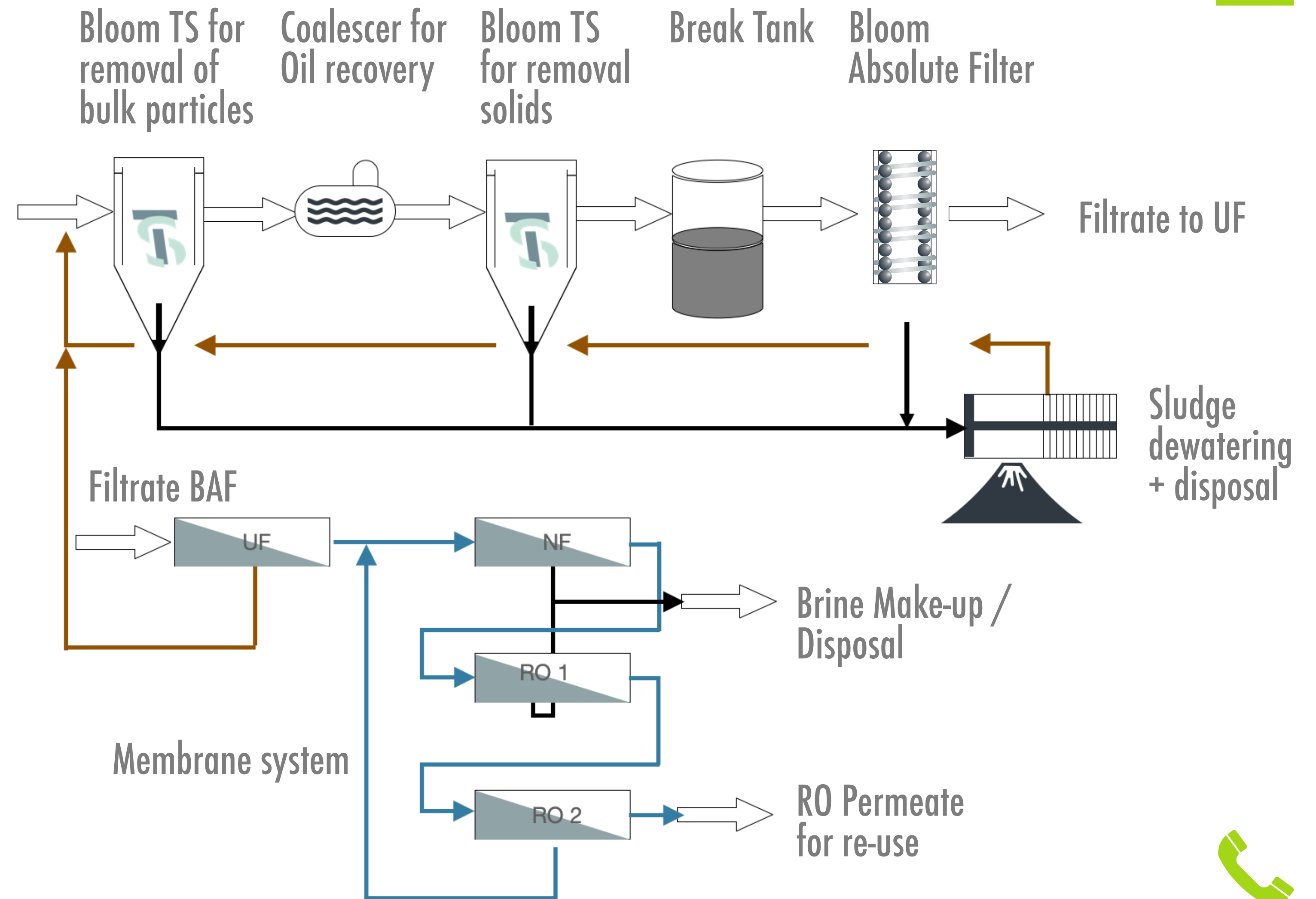
- 🔄 Small footprint & Simple Setup
- 🔄 High flow + absolute quality
- 🔄 No downtime + no waste from disposable filters
- 🔄 Optimum protection for downstream Membranes



TASK: COMMISSION „SIEMENS ROMANIA“

- ## SOLUTION:

- ♻️ High Quality Filtrate
- ♻️ Small Footprint
- ♻️ Very little Back-Wash-Water
- ♻️ No disposables = No waste

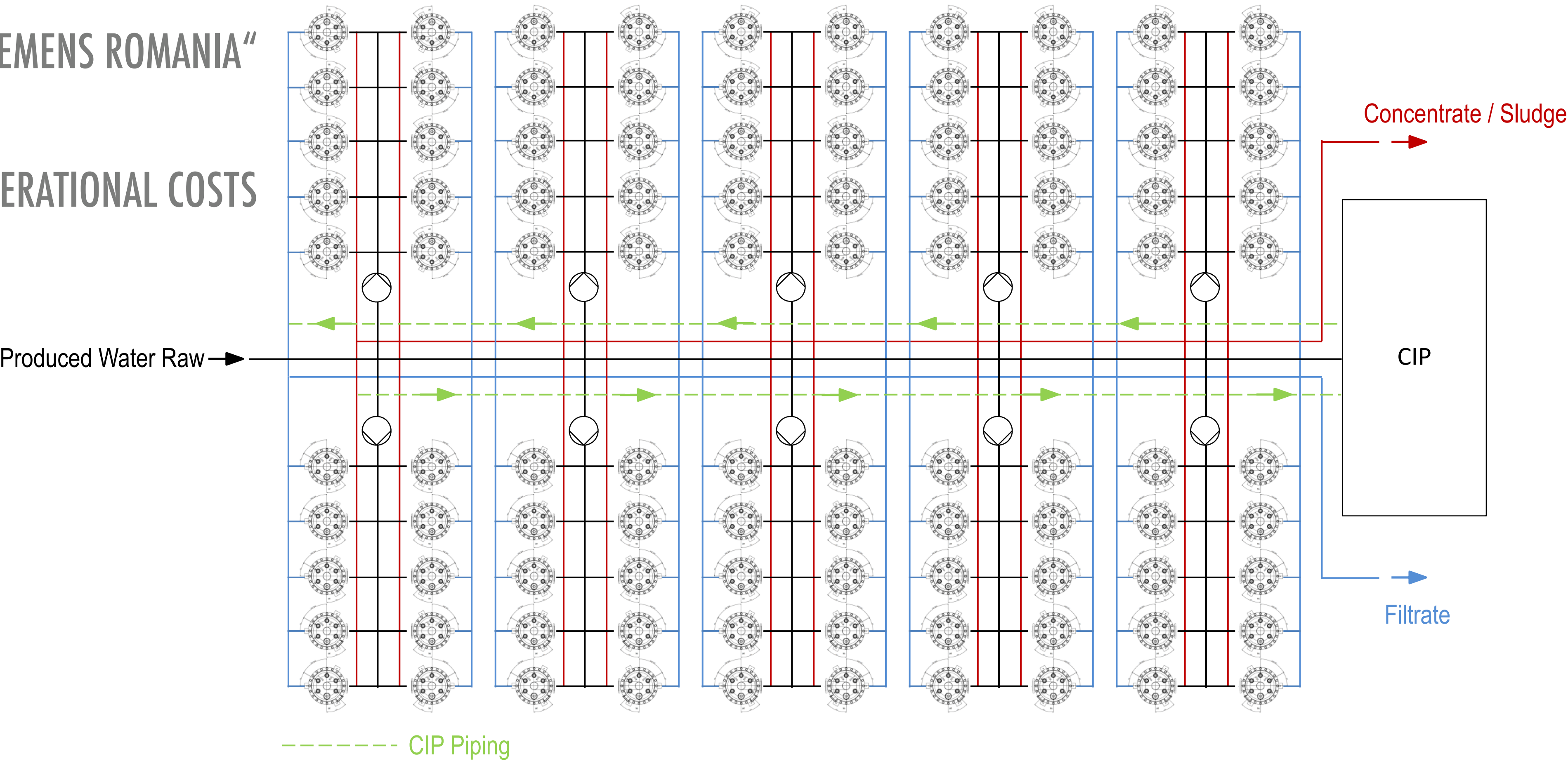


OIL FIELD PRODUCED WATER II

SUSTAINABLE + SMARTER CONCEPT

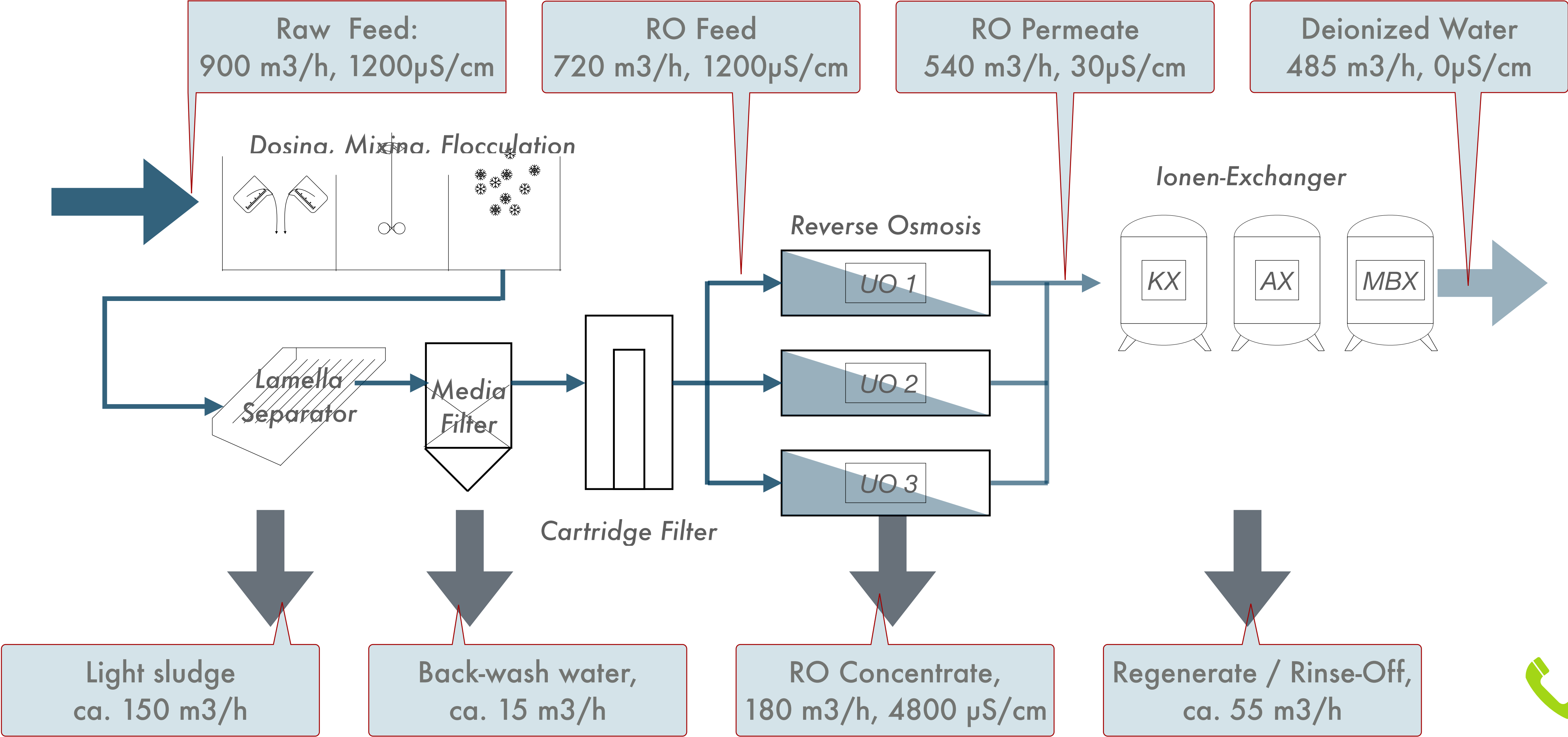
TASK: COMMISSION „SIEMENS ROMANIA”

SOLUTION: CUTTING OPERATIONAL COSTS
BY FAKTOR 4



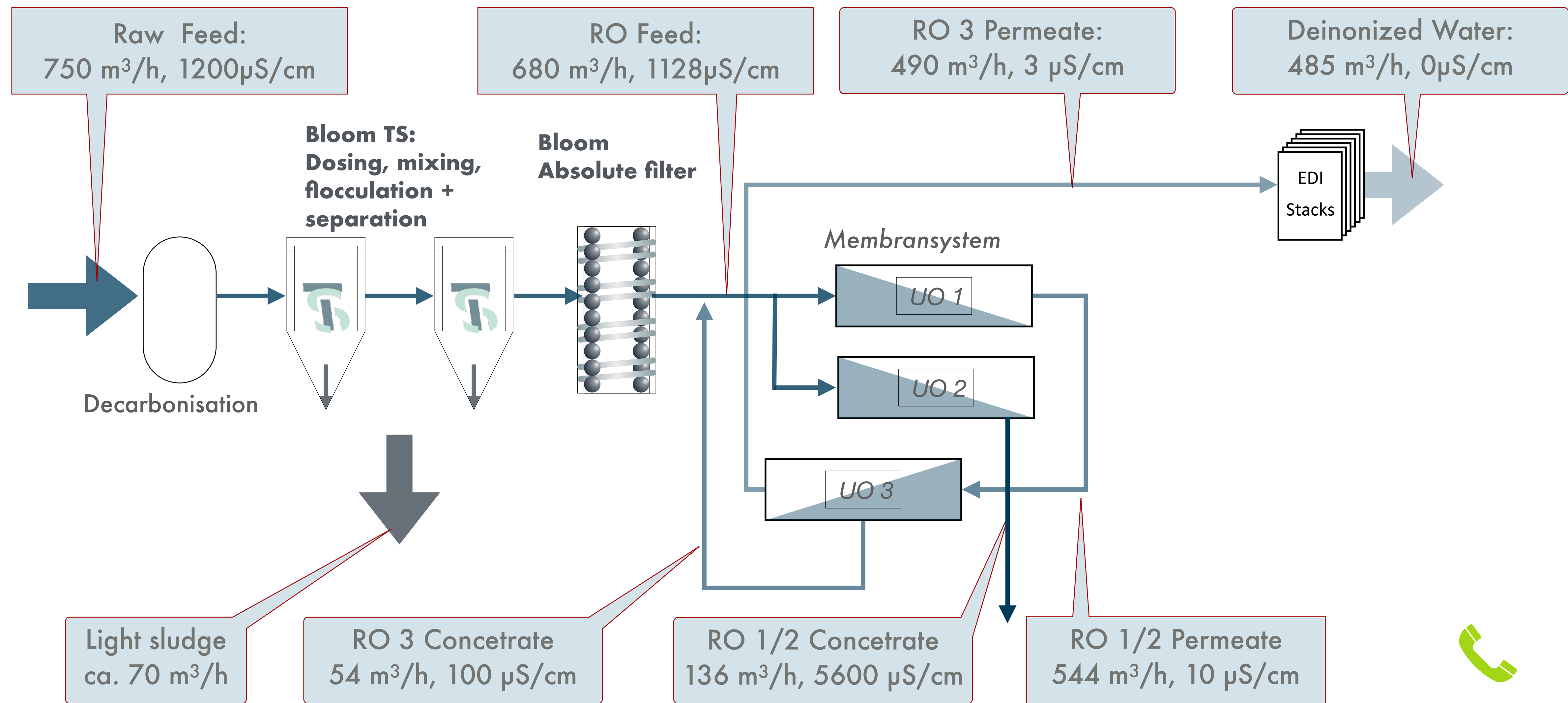
BEFORE: POWER PLANT - BOILER-FEED SETUP 1997

SUSTAINABLE + SMARTER CONCEPT



AFTER: POWER PLANT - RKB-BOILERFEED RE-FIT

SUSTAINABLE + SMARTER CONCEPT



TECHNICAL ADVANTAGES AT A GLANCE

SUSTAINABILITY IS WHEN IT'S A BLOOM ABSOLUTE FILTER



- ♻️ GL certified absolute filtration = optimal protection for membranes + edit downstream
- ♻️ High flux, low pressure drop
- ♻️ Back-washing in seconds
 - ✖ No down-time for changing filters
 - ✖ No waste water
- ♻️ No flocculants needed = less waste
- ♻️ pH 0-13, 130°C = highest compatibility
- ♻️ Easy CIP Integration and/or
- ♻️ Sterilisation with hot water / steam for maximum hygiene requirements (Food & Beverage, Pharma)
- ♻️ Compact + clever systems = small Footprint
- ♻️ Closed Loops
- ♻️ Easy recovery of valuables in concentrate
- ♻️ Less operational costs



CHECKLIST FOR OPTIMUM USE + SUSTAINABILITY

BECAUSE IT'S SMARTER



PARTICLES			MEDIA		GOAL		
☐	Small	✓	☐	Aggressive	✓	☐ Precision	✓
☐	Anorganic	✓	☐	Hot	✓	☐ Performant	✓
☐	Hard	✓	☐	High purity	✓	☐ Occupational safety	✓
☐	Abrasive	✓	☐	Food & Beverage	✓	☐ System protection	✓
☐	Low particle load*	✓	☐	Ex-protected	✓	☐ Operational Excellence	✓

* For high loads we recommend multi-stage filtration or pre-separation with Bloom TS





BLOOM ABSOLUTE FILTER

SUSTAINABILITY STARTS WITH
A SMARTER CONCEPT

LET'S TALK ABOUT IT

Stephan Schuetze
Mobil: +49 (0)170 754 29 45

Freimersheimer Straße 7
D - 47229 Duisburg

