They use water to boost efficiency

How do you use your water?

HydRO®

for laundries

Cost-effective plug-and-play solution to recover, treat and recycle laundry wastewater



REDUCES FRESH WATER INTAKE BY ≥ 80%

LIMITS DISCHARGE COSTS

PROCESSES BEST QUALITY WATER

VERIDE
SUSTAINABILITY SOLUTIONS

CHRISTEYNS
LAUNDRY TECHNOLOGY

HydRO®
for laundries

As water is no longer a stable resource and water prices keep rocketing, water reuse makes financial and environmental sense. Especially now when strict regulations on wastewater volume and limitations on effluent parameters are coming into force in several European countries. We know how to help you to tackle these challenges and to lower your fresh water consumption.

THE CHALLENGES

1. Water is no longer a stable resource

- Ground water is getting scarce
- Permits on ground water extraction are phased out or restricted

2. Strict regulations on wastewater discharge

- Limitations on wastewater volume
- Limitations on effluent characteristics, such as COD, heavy metals, AOX etc.

3. Prices are constantly rising

- Municipal water is becoming more and more expensive
- Tax levels on wastewaster discharge keep rising

UN Sustainable Development Goal on Water (SDG 6) specifically targets a substantial increase in recycling and safe reuse globally by 2030.

THE SOLUTION

Looking to reduce your water-related expenses and at the same time limit your wastewater discharge? Look no further! With HydRO for laundries you will **reduce your fresh water intake by at least 80%** thanks to **a sustainable water supply** with a **cost-effective plug-&-play** solution offering **the best water quality** for your wash process.

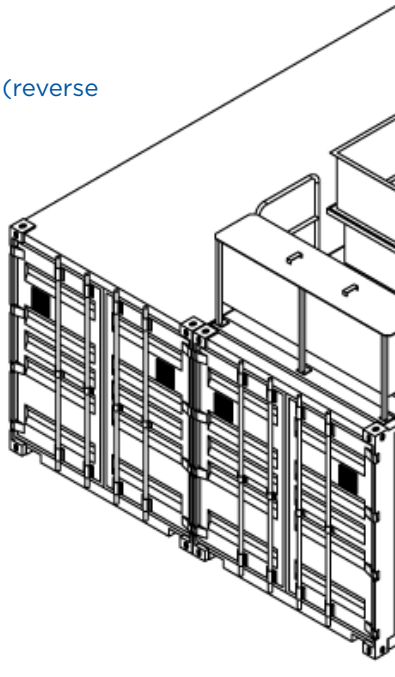
The concept

HydRO for laundries comes as '**plug-&-play**' container unit that **recovers, treats and recycles** wastewater from the washroom equipment and turns it into the best water quality for your wash process and boiler house.

But there is more than meets the eye. The unit also replaces all water-related equipment in your laundry. In short, it is an all-in-one installation.

The HydRO technology makes all **additional treatment obsolete** such as:

- De-ironing
- Softening
- Treatment of boiler water (reverse osmosis)
- Heat-exchanger
- Wastewater treatment



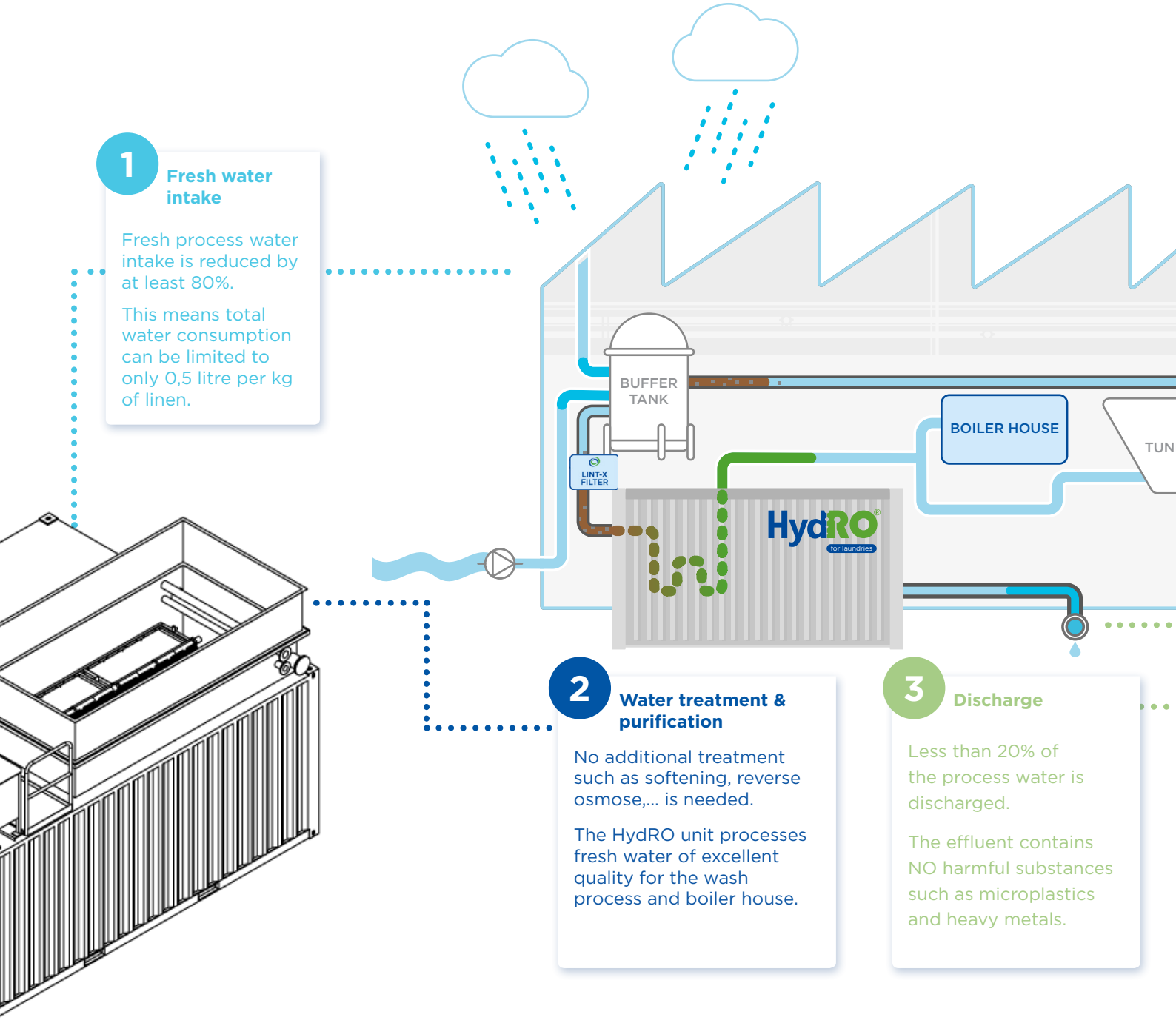
Without HydRO for laundries

- Investment in **multiple** installations for water treatment (de-ironer, softener, heat-exchanger, ...)
- **High** maintenance and lifecycle **costs** from the different water treatment devices
- **Many** supervision hours for the different installations
- **Large** wastewater volume
- **Polluted** effluent
- **Good** water quality

With HydRO for laundries

- Investment in only **1** installation
- **Limited** maintenance and lifecycle **costs**
- **1** supervisor for 1 installation
- **Limited** wastewater volume
- Effluent **free** of components such as micro-plastics, heavy metals and bacteria
- **Excellent** water quality for the wash process and boiler house

CLOSED-LOOP WATER SUPPLY



1 Fresh water intake

Fresh process water intake is reduced by at least 80%.

This means total water consumption can be limited to only 0,5 litre per kg of linen.

2 Water treatment & purification

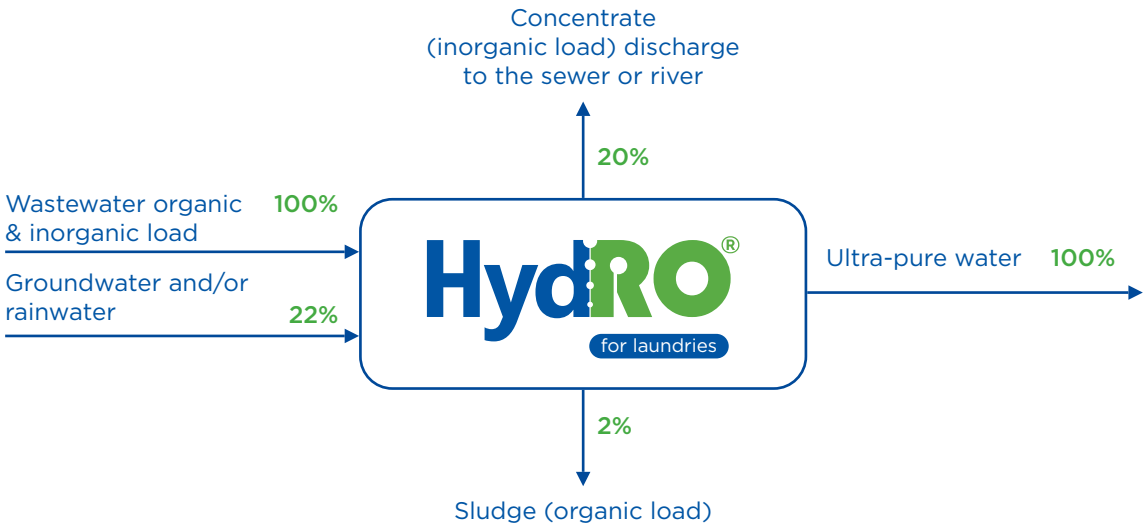
No additional treatment such as softening, reverse osmose,... is needed.

The HydRO unit processes fresh water of excellent quality for the wash process and boiler house.

3 Discharge

Less than 20% of the process water is discharged.

The effluent contains NO harmful substances such as microplastics and heavy metals.



WHAT'S IN IT FOR YOU?

QUALITATIVE wash process

- Excellent water quality for wash process and boiler house
- Lower conductivity: better rinse efficiency & whiteness

COST-EFFECTIVE solution

- Reduction of fresh process water intake by ≥ 80%
- Significant savings in discharge costs
- Decrease in gas consumption by 25% thanks to heat recovery
- Savings on CO_2 emissions - carbon credits

SUSTAINABLE operations

- Less than 20% process water discharge
- No substances in the effluent such as heavy metals, micro-plastics and harmful bacteria
- Reduction of COD, BOD, AOX, suspended solids,...
- Limitation of Eco-toxicity

FLEXIBLE concept

- Plug-&-play container unit
- Customised to target wastewater quantity
- All-in-one: no need for additional water treatment
- Simplification of the technical installation





> “ Water is too precious to only use once ”

CASE-STUDIES

HOSPITALITY	without HydRO	with HydRO*
Fresh water consumption		
m³/year	7.800	< 800
l/kg	5	< 0,5

RECOVERY **83%** **

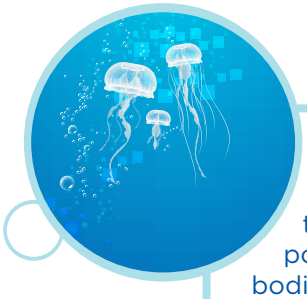
HEALTHCARE	without HydRO	with HydRO*
Fresh water consumption		
m³/year	41.600	5.200
l/kg	6,4	0,8

RECOVERY **87%** **

WORKWEAR	without HydRO	with HydRO*
Fresh water consumption		
m³/year	13.520	2.945
l/kg	13	2,9

RECOVERY **81%** **

* rain water is not included
** % recovery of the wastewater



DID YOU KNOW?

Jelly fish are 95% made of water. They are some of the most energy-efficient swimmers, as they create a pocket of water under their bell as they squeeze their bodies to swim. By doing so, they recapture energy and move 30% further than they would have done otherwise.

They have inspired many engineers by their simplicity, yet innovative technique of how they use water to their advantage.

"Empowering our customers to massively reduce their water consumption and effluent bills, to save energy and reduce CO_2 impact significantly, that's what this partnership is all about".
- Alain Bostoen (CEO Christeyns)

"We wanted to link Christeyns' know-how and broad customer base with global top-class technology tailored to the specific needs of the industry".
- Ward De Wachter (CEO Veride)

Hydro Global Solution

a joint venture by

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