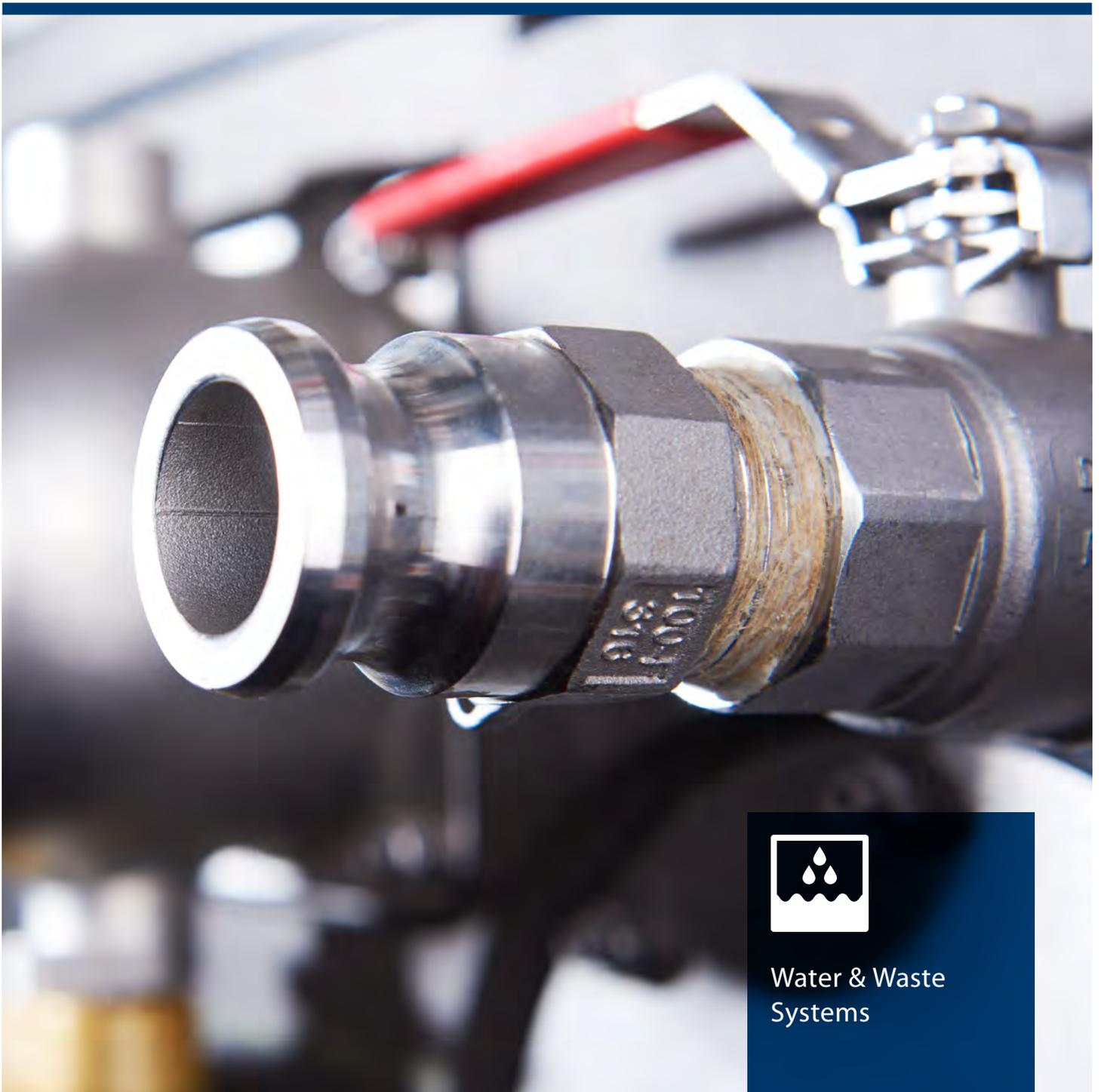




EVAC

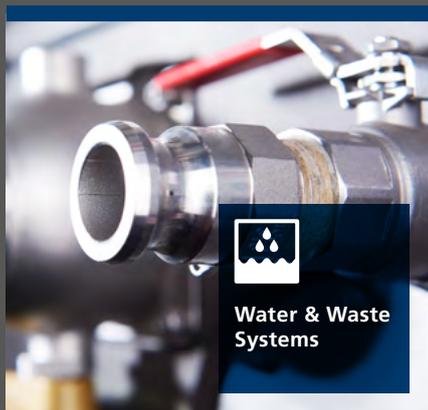
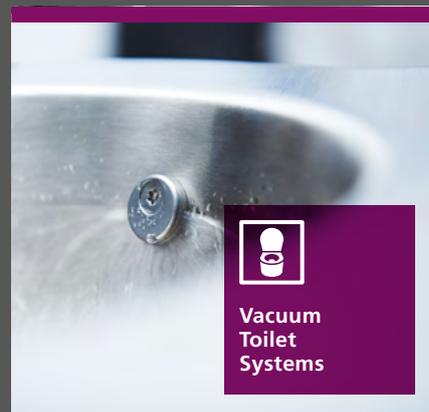
Water & Waste Systems



Water & Waste
Systems

Product Overview

The vital ingredient for truly exceptional results



- » Every single product designed to meet highest technical expectations
- » Continuous innovations and updates guarantee future-proof investments
- » All products extensively tested and tailored to our clients' specifications

Evac Water & Waste Systems

Essential options from a one-stop source.

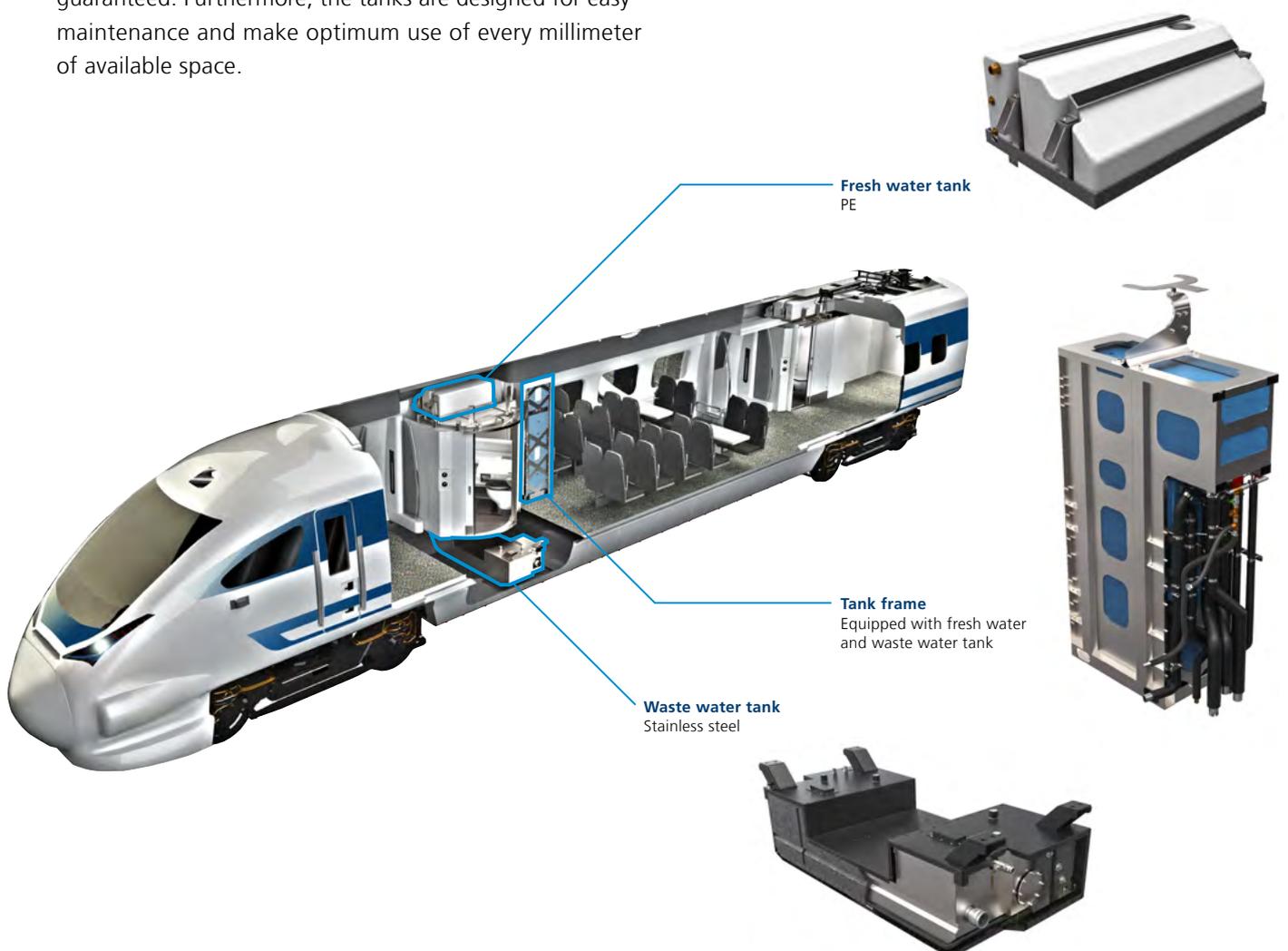
System Overview

Optimized treatment for fresh, grey and waste water is essential for any vacuum toilet solution. As the world's leading provider of vacuum systems for trains, Evac offers all the components needed for complete, fully integrated solutions from a single, one-stop source – from tanks and tank racks as well as grey water systems through to water panels including water heaters and pumps.

The advantages are obvious: By individually tailoring all key components for any given project and choosing the combinations that work best, Evac makes sure to meet even the most complex project requirements spot on. Frictionless interplay and seamless interfacing between all parts are guaranteed. Furthermore, the tanks are designed for easy maintenance and make optimum use of every millimeter of available space.

Engineering Design

Evac is in an ideal position to generate sophisticated and cost efficient on-train water and waste management solutions for any environment. A unique concentration of skills and experience under one roof guarantees that we have all the manpower and expertise it takes directly at hand, e.g. for tank design, welding, bonding and stress calculation. Our excellent in-house staff of specialists and its continuous training are the key to making us a reliable, valued consultant and engineering partner for all our clients in the world-wide railway market.



Fresh water tank
PE

Tank frame
Equipped with fresh water
and waste water tank

Waste water tank
Stainless steel

Compliance



| | |
|-------------------------------|--------------------------------------|
| Fire protection: | EN 45545 HL2 |
| Welding: | EN 15085 |
| Bonding: | DIN 6701 |
| Stress calculation: | DIN EN 12663-1 APTA standard etc. |
| Fresh water tank draining: | DIN EN 16362:2014-03 |

Tank Dimensioning and Placement

Evac tanks are custom-designed and engineered for space-saving placement (e.g. in the roof area, underfloor or next to the toilet modul) as well as reliable operation, even in the most challenging conditions. From the Arctic to the desert, there is virtually no terrain where our systems are not in use. So, no matter how tough your requirements are: We are sure to find the perfect and most efficient combination of tank size and vacuum system in terms of optimized weight management, crashworthiness and fatigue strength.

Accessories



Grey Water Unit (GWU)

When high-speed trains pass one another or run through tunnels, ambient pressure differences arise. These pressure waves can be transferred through the grey water piping into the toilet cabin, which may lead to unpleasant pressure in the ears of passengers.

Evac's grey water unit (GWU) prevents fluctuations in cabin pressure. The reliable and well-proven GWU complies to the fire protection standard EN 45545 and is easy to install, directly under the wash basin.

Liquid Level Guard



Evac's newly developed liquid level guard represents the state of the art in measuring technology. Made of stainless steel, it is robust, cost-efficient and extremely precise. By measuring fresh, grey and waste water levels electronically instead of mechanically, it is both more exact and fault resistant than conventional devices. Paper, incrustations and other deposits are ignored during the measurement process. Real-time electronic transmission of the generated data allows to trigger active countermeasures (e.g. against blockages), and additional data can be used to support preventive and condition based maintenance.

Evac Train – Integrating Excellence



For more than 40 years, Evac solutions have been known for outstanding reliability, efficiency and low maintenance. As the world's leading provider of completely integrated sanitary systems for trains, we have been generating state-of-the-art components with "built-in" field experience of about 100,000 vacuum systems installed worldwide – and counting.

With extensive expertise and rigid quality assurance, we develop and integrate high-class components into seamless systems that, just like railways, are much more than the sum of their parts – individually tailored for the demands and conditions of vastly different markets in many countries. Introducing a maximum level of performance and stability into any system while using minimum resources and space is our day-to-day business. This is why integrating Evac is integrating excellence.



EVAC

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