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Ultrafiltration Occupies an Established Position **In Water Treatment**

Scandlines Applies APATEQ's Innovative Scrub Water Treatment System

Scandlines uses a brand new scrub water treatment system, produced by the Luxembourgish clean-tech company **APATEQ**. The treatment system MarinePaq cleans scrub water from the ferry's closed-loop exhaust gas cleaner (scrubber). It produces an effluent according to the most stringent environmental legislation and achieves substantial savings on operation costs and flexibility gains for the fleet. Scandlines' two recently launched ferries for the Rostock-Gedser route are driven by Scandlines' hybrid propulsion system which combines traditional fuel with electric battery power. The hybrid propulsion system optimizes consumption by adjusting the engine output. Together with other optimization initiatives, the fuel consumption has been reduced to almost one-third per crossing per car compared to the former ferries operating the route. The two new ferries have also both been fitted with an exhaust gas cleaner, a so-called closed-loop scrubber. In short, a mixture of water and sodium carbonate in powder form, which is pumped aboard the ferries, scrubs the exhaust gas. Contaminated water from the scrubber is channeled to an on board separator for purification. When the solution cannot absorb more waste products, the scrub water is pumped into the shore based scrub water treatment system MarinePaq from the Luxembourgish cleantech company APATEQ. The system has been installed in two containers stacked one on top of the other at the harbor in Gedser. In a five-step process, the scrub water treatment system cleans the scrub water so effectively, that the cleaned water can be discharged into the harbor according to the most stringent environmental legislation, being substantially beneficial for the environment. ■

APATEQ MarinePaq installation for Scandlines

New Intelligent Pumping Solution Gives Customers Maximum Return

Xylem Inc., a global water technology company dedicated to solving the world's most challenging water issues, is launching a new Smart Pump range equipped with built-in ultra-premium efficiency IE5 motors to achieve optimal performance in water supply and HVAC applications for commercial buildings. The IE5 motor delivers the highest level of performance, exceeding current IE3 legislative requirements. The Lowara Smart Pump range will be featured at the ISH trade show in Frankfurt, Germany. "Improving efficiency in buildings is a key priority for the global building sector," said *Giorgio Sabbatini*, Global Director, Business Unit HVAC / Commercial Building Services at Xylem. "The segment is highly focused on reducing energy consumption and operational costs as they relate to systems in a facility – whether it's plumbing or HVAC systems. Our new Lowara Smart Pump range addresses this market need. Featuring advanced variable speed drives, the next generation Lowara range lays the foundation for achieving the highest efficiencies, classified as IES2 standard. With the Smart Pumps range we are going beyond single components, as only a great trio of motors, variable speed drives and pumps can provide the reliability, best savings and shortest payback times sought by our customers." Xylem's new Lowara Smart Pump range is 'plug and play' – simple to install and commission both in new and retrofit installations. The embedded electronic drive called e-SM dramatically extends the working area of a pump to maximize flexibility and enhance system performance. ■

Lowara smart pump range