

19 YEARS OF RESILIENCE

Longevity and Reliability of our Water Treatment System at a Dialysis Center in Heidelberg

Client: Kidney Center Heidelberg

Capacity: 2500 l/h (2.5 m3/h)

Location: Heidelberg, Deutschland

Plant: Reverse osmosis for the production of ultrapure water for hemodialysis

Start-up: May 2005

Nineteen years ago, the Kidney Center in Heidelberg, Germany, approached Herco Wassertechnik GmbH with the request for a water treatment system that would deliver high-quality purified water for dialysis. At that time, the importance of good water quality in connection with dialysis fluid for hemodialysis patients was recognized, as poor water quality can trigger inflammatory processes in patients.

It was crucial that the proposed solution be sustainable and efficient in removing endotoxins, germs, and other trace elements in water according to European regulations and recommendations. Herco proposed a twin pass reverse osmosis water treatment system, focusing on providing pure water of the highest quality for patients. The system minimizes water consumption by ensuring that only a minimal required amount of water is discarded, thanks to Herco's water-saving function. To ensure reliable operation, the Heidelberg facility is equipped with a sub-loop design, including a double hose system.

This system provides a dead zone-free continuous water supply to the dialysis stations. Furthermore, the reverse osmosis system and loops are designed for optimal efficiency to maximize throughput while meeting the stringent quality standards required for dialysis procedures.

An outstanding feature of the water treatment system delivered to Heidelberg is its ability to deliver microbe-free water over a long period without the need for chemical or thermal disinfection. This breakthrough was made possible by the dead zone-free design of the reverse osmosis system and the subloop system.

Of particular note is the longevity of this Herco technology. In 19 years, the membranes did not need to be replaced even once. This is evidence of the high quality of materials used and careful design. The very long lifespan of the membranes contributes to the sustainability of the system and reduces operating costs, along with uninterrupted operation.



Christian Kalbrunner

Nierenzentrum Heidelberg
Head of Building Services
and Energy Management

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We have been relying on Herco system technology for 19 years now and can testify to the reliability of the system technology and the Herco service.

During this time, not a single membrane change has been required on the reverse osmosis system.

This is possible thanks to the unique dead-zone-free design of the reverse osmosis system, the reliable maintenance and the particularly good quality of the sophisticated technology.

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In summary, the Herco water treatment system at the Heidelberg Kidney Center represents a sustainable, high-quality solution for reliable operation with optimal hygienic properties. Herco is proud to contribute to the well-being and safety of patients while meeting the highest standards of sustainability in healthcare

Status: April, 2024

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