

Hartmann GmbH specializes in the complete deionized water supply in clinics, medical practices, laboratories, research institutions and industrial companies. In doing so, we are advancing to become a leading, production-related service provider specializing in: **Pure and ultrapure water technology, cleaning, disinfection and drying machines, cleaning agents and disinfectants, stainless steel furniture, quality assurance, validation and safety checks.**

With 40 years of experience in the industry, we also develop efficient, cost-effective and reliable high-quality solutions for your individual requirements. A guaranteed mileage of the systems and devices as well as sustainable profitability are focused properties for your satisfaction. However, should failures occur, our customer-oriented and comprehensive customer service is available to you around the clock.

OUR MISSION STATEMENT

High-quality products, innovative ideas, high standards of functionality, design and ecological compatibility as well as close and direct customer loyalty are therefore of crucial importance to us. Hartmann GmbH is an international company that is constantly oriented towards innovation and continuous growth. With our high-quality product range and the competence of our employees, we will continue to assert ourselves on the market in the future. Your quality standards drive us forward, fair working conditions bind our employees to us.



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WHEN DRINKING WATER IS NOT PURE ENOUGH:

ULTRAPURE WATER TREATMENT BY EXPERTS



Hartmann GmbH
Frankenberger Straße 64
09661 Hainichen
Germany

Telefon: +49 (0) 37207-407-0
Fax: +49 (0) 37207-407-20
Mail: info@hartmann-gmbh.eu
Web: www.hartmann-gmbh.eu

Reverse Osmosis Systems

The top priority is that our reverse osmosis systems always deliver the best deionized water. All reverse osmosis systems from our range are assembled in our house and adapted to your individual needs.

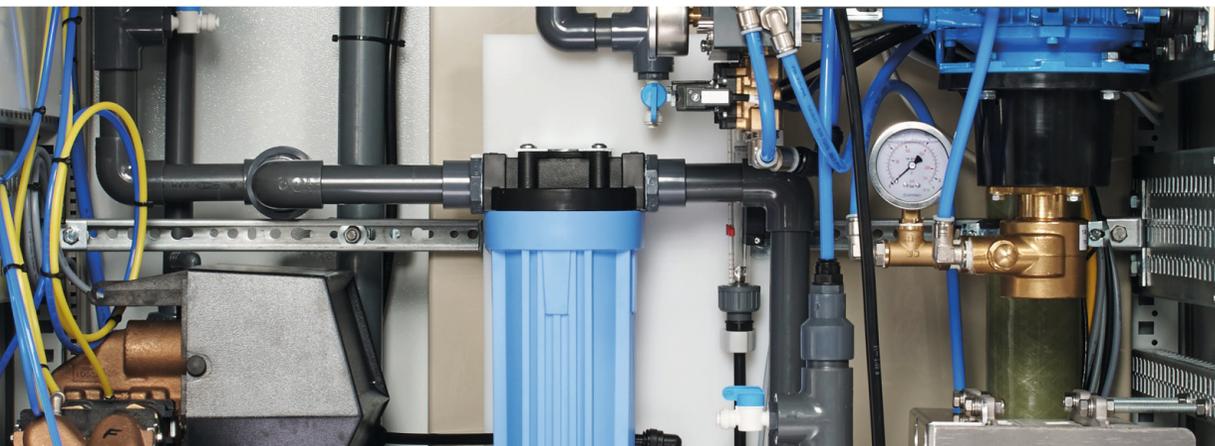
Reverse osmosis (also called reverse osmosis) is the most economical process for removing up to 99.8% of all contaminants. During water filtration, water is pressed against the membrane at line pressure so that only the water molecules can pass through the membrane. All unwanted components are retained, resulting in the purest water. In addition to the high water quality, environmental friendliness and resource conservation are crucial components. Our systems filter polluting substances such as bacteria, germs, particles and other dissolved organic substances from the water using a membrane, without generating polluting regeneration waste water.



Electrodeionization

Our individual EDI systems are used after the actual reverse osmosis, resulting in very low conductivity. Electrodeionization is a very good alternative to conventional mixed-bed exchangers to treat boiler feed water, process water in the electronics industry, the pharmaceutical industry, in hospitals and laboratories.

The advantage of an EDI system is the continuous process with a chemical-free, environmentally friendly regeneration. The storage and handling of acid and lye is therefore completely eliminated. Our EDI systems not only offer you high quality, but are also space-saving thanks to their compact design. Another feature is the minimum of maintenance with a high level of operational reliability.



Ultrapure water is one of the most valuable and important raw materials for work processes in medicine, research and industry. It is often used as process water, rinsing water, boiler feed water or cooling water as well as in laboratories for reliable treatment for the central laboratory water supply. In medical technology, on the other hand, pure and ultrapure water is used for instrument processing in central sterile supply departments (CSSD) and therefore requires high water quality.

But how is ultrapure water produced? Through a wide variety of water treatment processes, which can also be combined with one another. This particularly pure water is the pure chemical compound H₂O, without any foreign substances. Due to its low conductivity, ultrapure water should not be confused with distilled or demineralized water.

Deionized water by Ultrapure Water Treatment

When it comes to ultrapure water treatment, we rely on modern treatment stages. Starting with filtration and ion exchange through reverse osmosis to electrodeionization. Matching storage and distribution concepts are part of our customer-specific solutions. The best thing about it: Hartmann GbmH produces the optimal ultrapure water treatment system according to your very specific quality specifications, which also correspond to your individual needs in terms of size and performance.



low maintenance

high operational reliability

compact design

modern processing stages

high flexibility

Whether for demanding applications in medical technology, life sciences, analytics or to supply analysers, autoclaves and laboratory washers: today's highly sensitive areas of application require ultrapure water systems in order to produce ultrapure water of the highest quality.

Ultrapure Water Systems

Pure and ultrapure water is particularly purified water that, in contrast to conventional natural water, contains almost no foreign substances. Our systems are suitable for the production of pure and ultrapure water (type I and type II water). Pretreated water from a reverse osmosis, ion exchanger, electrodeionization is required as feed water. Some small systems can be operated directly with drinking water.

Ion Exchanger

Our ion exchangers with mixed-bed water deionizer contain selected mixed-bed resin made from strongly acidic cation and strongly basic anion exchange resins. By means of the fine mixing, a qualitatively high water purity is achieved. During operation, the input water (drinking water according to TVO) flows through the ion exchange resin from top to bottom. This removes the salts from the water that is fed in. The use of high-quality and quality-tested mixed-bed resins results in consistently high water quality that meets the requirements for your individual area of application and protects valuable resources. In addition, the high-quality and regenerable resins can be used several times and have a long service life. Our ion exchange cartridges guarantee you optimal utilization of the capacity. When the specified limit value is reached according to the intended use, the mixed-bed ion exchanger must be replaced and regenerated.

We are also happy to offer you the exchange of your cartridges on site.



First-hand Service and Advice

Our systems are developed in strict compliance with the Drinking Water Ordinance, DIN 285, DIN EN 15883, CLSI and ASTM and are characterized in particular by low operating costs and minimal maintenance. We would be happy to assist you in deciding on the right water treatment system, to clarify questions about water requirements, the necessary flexibility in terms of purity levels and the available space.