



Company profile

Seccua – leader in ultrafiltration technology for water purification

Seccua is a global technology leader in the field of standardized, packaged ultrafiltration systems for process and drinking water. Bacteria, viruses, Legionella and parasites; turbidity, colloids and coloration due to iron can be effectively removed from drinking water without the addition of chemicals.

More than 10 years of experience in the field of ultrafiltration have culminated in systems with proprietary control systems incorporating automatic membrane integrity testing, data logging and remote monitoring and control. Our certified module manufacturing enables us to offer custom sized UF modules to OEM's, and our system manufacturing is capable of producing over 1,500 systems annually.

Based in Steingaden, near Munich, Germany, and Surprise, Arizona, Seccua has installed over 400 ultrafiltration systems for residential, commercial and small-systems municipal applications. Products from Seccua are primarily aimed at local water supplies and industrial water treatment. These compact systems can filter up to 30,000 liters of water an hour (132 GPM), and are easy and inexpensive to install and operate. They are fully automated and require low maintenance. They are ideal for places and areas not connected to central water supplies, but are also widely applied in industrial treatment processes that need full removal of pathogens and suspended solids.

Ultrafiltration - the most efficient technology for water purification

Ultrafiltration is a technology that can turn contaminated water into safe drinking water. With significantly better performance and cost efficiency than any other purification method.

Ultrafiltration, which originates from medical technology, has been making its entry in drinking water treatment to an increasing degree. The purification process utilizes membranes, which have a pore size of 20 nanometers or less. Thereby they are smaller than all known pathogens present in the water. In this manner, ultrafiltration offers an almost 100%, chemical-free barrier against viruses, parasites and bacteria. Simultaneously, turbidity and all other suspended solids are removed from the water in a single step.

The removal of up to 99.9999 but more than 99.99 per cent of all pathogens has been proven in extensive tests, demonstrating that drinking water is completely free of bacteria after filtration. No further disinfection is required.

A further key argument for ultrafiltration, a low-energy treatment process, is its compatibility with other methods used for purifying drinking water. The use of activated carbon before ultrafiltration removes pesticides and drug residues, and with downstream nanofiltration, the water can be softened. Reverse osmosis will desalinate the water after ultrafiltration pre-treatment, much more efficient than without.



Product portfolio

Seccua's portfolio of products comprises the three product series X-Spot , Virex and Phoenix which suit the needs and the volumes of water required.

The **X-Spot Pro** system, delivering a flow rate of e.g. 36 liters/min (10 GPM) at less driving pressure than comparable Ultrafiltration systems, is particularly ideal for water treatment in households, small individual water supplies, restaurants and catering businesses. The system removes virus, parasites and bacterial content from mains or well water. In opposite to conventional Ultrafiltration systems, the X-Spot Pro unit detects the grade of fouling on its filter and automatically flushes only when required. In combination with the unique SmartFlush – program, the unit saves up to 90% of flushing-water and avoids interruption of water production when water is used.

The flagship in Seccua's product range is the **Virex Pro** system. This intelligent filtration system can purify up to a maximum of 3,900 litres of water an hour (18 GPM). It automatically detects how badly contaminated the filter is and automatically carries out cleaning processes at the appropriate intervals, if required with automated chemical enhancement. The control unit independently adjusts the interval between filter cleans, as well as the length of each filter clean, depending on the water quality, thereby ensuring simple operation and optimised running costs. The Virex Pro and Phoenix systems also feature an integrated membrane integrity test:

The membrane filters used are regularly and independently checked for damage. In the event of a membrane fault, the system is stopped automatically and triggers an alarm locally and remotely. Thanks to this innovation, the removal of pathogenic organisms from the drinking water and a constant high quality of water can be assured. Seccua is the world market leader for this patented technology.

Within Seccua's range of products, the most powerful system is **Phoenix**. It combines all the features of the Virex Pro unit with a space-saving, scalable approach to reach up to 30,000 litres of water an hour (132 GPM) of filtration performance. This system is ideal for disinfecting surface, spring and well water as well as for removing sediment or treating high flows of water in industrial processes.

Management

Michael Hank - Founder and CEO Seccua GmbH and Co-Founder Seccua Americas LLC

Michael Hank founded Seccua GmbH, Germany and has been its General Manager since April 2005. By end of 2008, he had implemented over 400 reference projects in the German-speaking region for Seccua and had managed to close white-label co-operation agreements with two of Europe's leading water treatment companies.



In 1999, the graduated engineer founded inge AG, the first manufacturer of ultrafiltration membranes for purifying water and waste water in Germany. Under his management, the company achieved sales of Euro 3.5 million by the end of 2004. In April 2005, Michael Hank sold the majority of his shares in inge AG and also resigned from his CEO position in order to focus completely on the development of Seccua. Michael Hank began his career in sales and business development at Hydranautics, a US market leader, specialising in membrane technology for water desalination.

Dan Wyckoff - Co-Founder and General Manager Seccua Americas LLC

Dan Wyckoff has been in the water treatment industry for over 30 years. He began his career with a major U.S. water treatment company, during which he held senior engineering, sales and business development positions, including a ten year assignment living and working in Asia. Market focus included filtration and membrane treatment processes for residential, commercial and industrial applications.

Prior to relocating to Arizona and establishing Seccua Americas with Michael Hank, founder of Seccua GmbH, he was head of the filtration technologies division of the first company in the U.S. to manufacture and market standardized ultrafiltration systems for point-of-use and point-of-entry applications. This pioneering work led to the acceptance of ultrafiltration as a recognized technology for home and commercial applications.

Dan's formal education includes a BS in Chemical Engineering from Michigan State University, and a MBA from Lake Forest Graduate School of Management.

Further information can be found at www.seccua.com or from:

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