

PRESS RELEASE

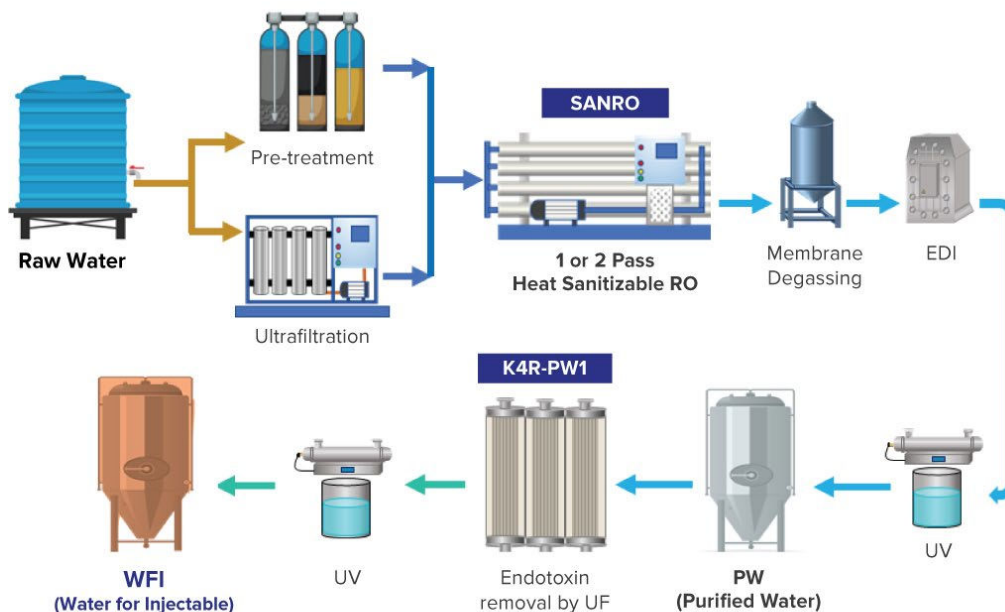
Hydranautics' launches K4R-PW1 – the Innovative Hot Water Sanitizable Ultrafiltration Membrane to Produce WFI Quality Water

Hydranautics, a leading global membrane technology company, launches its new state-of-the-art solution: K4R-PW1. The hot water sanitizable ultrafiltration membrane is specifically designed to produce high purity water. That is, the water which is bacteria and pyrogen free and meets the quality standards for critical applications in the healthcare, biopharma, pharmaceutical, semiconductor and life sciences industries.

Hydranautics is known for its innovations and futuristic approach. We strive to improve the quality of life through our products and K4R-PW1 is introduced while considering the demand for highly pure water in the global pharmaceutical industry. This novel membrane module helps in reducing endotoxins to less than 0.25 EU/ml, to achieve Water for Injections (WFI) quality.

Global pharmacopeias, including the United States (US), European (Ph. Eur), Japanese, Indian and Chinese have defined quality standards for different grades of water to be used for various pharmaceutical applications. These grades of water include Purified Water (PW) and Water For Injection (WFI). To generate PW and WFI, the microbiological quality of water needs to be controlled. This is to ensure that the water used in manufacturing of pharmaceutical products should not contain any organisms that can grow in the products.

To achieve PW and WFI quality and comply with the regulations of major global pharmacopeias, Hydranautics offers the innovative hot water sanitizable UF membrane K4R-PW1, along with the industry-trusted sanitizable RO membrane SANRO.



Why Choose K4R-PW1?

- 6000 Dalton MWCO provides highest reduction of endotoxins, pyrogens, and bacteria
- Outside-in mode of treatment enables high flux filtration due to clean structure and no liquid accumulation on permeate side
- Hot water sanitizable sanitary construction with excellent heat and chemical resistance properties
- Reliable module parts which are FDA CFR Title 21 compliant, USP <88> Class VI compliant

ABOUT HYDRANAUTICS

Hydranautics is a part of the Nitto Group and one of the global leaders in Integrated Membrane Solutions. Hydranautics offers complete membrane solutions like Reverse Osmosis, Nanofiltration, Ultrafiltration, and Microfiltration for Water, Wastewater and Process treatment and applications. Hydranautics membrane-based solutions are currently in use on seven continents throughout the world for diverse applications such as Seawater Desalination, Industrial High-Purity Water, Surface Water Treatment, Waste Water Treatment, Specialty Process Applications etc. Our Global Membrane Division is headquartered in Oceanside, CA, USA and we have 3 state-of-the-art manufacturing sites located in Oceanside – USA, Shiga – Japan and Shanghai – China. For further information on Hydranautics kindly visit our website www.membranes.com

ABOUT NITTO

Nitto is Japan's leading diversified materials manufacturer. Based on four core technologies: adhesion, coating, polymer function control, and polymer analysis & evaluation, Nitto provides customers with various products such as polarizing films for displays, industrial adhesive tapes, reverse osmosis membranes for desalination and transdermal drug delivery patches. Under the brand slogan of "Innovation for Customers", Nitto contributes to a better life by solving social issues and improving corporate value. For further information on Nitto please visit www.nitto.com

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