



Top design for sustainable, advanced water treatment

Business lines in PWN Technologies

SIX (Suspended ion exchange process)

Organics removal has become a very high priority in water treatment. SIX has been designed to address this priority. The philosophy of the SIX process is based on an advanced plug flow reactor followed by a specially designed lamella settler. The settled resin is then completely regenerated and re-used. The continuous (mod-elled) adsorption process operated under stable kinetics.



SIX has been designed as a highly compact system, with lower resin concentration and lower resin inventory, lower salt usage, higher effluent quality and better control of the adsorption process than any other system available. Furthermore, all available resins from any supplier can be used in SIX. This is cutting edge technology, which is proven and validated as well as completely controllable.

CeraMac

CeraMac is a well-designed and engineered filtration process based on ceramic membranes. Several problems common to the filtration process have been solved with new solutions based on advanced R&D and large scale demonstration testing. This has produced a totally new design, with a far more compact footprint, lower energy consumption, more reliable operation, lower maintenance and more productivity and at lower costs than existing membrane systems. The application of CeraMac results in a significant improvement in filtration processes and enables a large-scale introduction of ceramic membranes on the market.

Perfector series

Throughout the world, there is a need for low-maintenance and easily installed package treatment systems that produce safe drinking water. The Perfector designs facilitate the treatment process of surface water into pure potable water, ranging from small, portable installations to full size installations. The designs are simple and upscalable, have low energy and chemical consumption, are easy to operate, have extremely low maintenance costs and are based on proven designs. A large number of reference cases of the Perfector designs are available in Indonesia and Vietnam.

Fully integrated water treatment solutions

By using SIX, Ceramic micro filtration, UV/H₂O₂ treatment and GAC filtration as unique innovative components for fully integrated, sustainable water treatment processes, based on process fundamentals, mathematics and hydraulics and real-world testing, PWN Technologies experts are able to provide end-users with customer-oriented solutions. All PWN technologies and solutions are tried and tested, as they are already being used by PWN Water Supply Company North Holland in their own successful operations.

PWN Technologies, partner in water supply

PWN Technologies is a wholly owned subsidiary of PWN Water Supply Company North Holland. PWN supplies water to about 1,7 million people in Holland. PWN Technologies was founded in order to share the impressive R&D programme of PWN Water Supply Company with others. Our revenues are invested in our R&D programmes. This enables us to enhance our position as a leading solution provider.



PWN TECHNOLOGIES

Rijksweg 501 | Velsersbroek
PO Box 2046 | 1990 AA Velsersbroek
The Netherlands

Telephone +31 23 541 3740
Fax +31 23 541 3113

Email info@pwntechnologies.com
Website www.pwntechnologies.com