



THE PERFECTOR SERIES

Innovative water purification techniques for developing countries

PWN Technologies is a leading company in developing innovative purification techniques. Our know-how is translated into sustainable solutions in water supply. Such as, for example, the Perfector series: innovative water treatment plants for the production of drinking water in developing countries.

PERFECTOR-R

The Perfector-R is a water treatment plant for the production of drinking water for communities of 50,000 to 250,000 people.



VALUE FOR MONEY

Compared to most existing surface water treatment plants, the ready-to-build design of the Perfector-R offers:

- > equal or lower investment costs
- > lower operational & maintenance costs
- > equal or better drinking water quality

TAKE WHAT YOU NEED

Due to the modular design the client has the option to build a complete new treatment plant in green field conditions or add capacity to an existing treatment plant. The modular design consists of:

- > raw water intake on floating pontoons, process units, chemicals preparation and dosing systems, clear water reservoirs, distribution pumping station, electrical infrastructure and various other facilities such as emergency generator, laboratory, offices, workshop, etc.
- > optional waste water storage and pumping

A RANGE OF CAPACITIES

- > overall net production capacities of 60, 120 and 240 l/s
- > a wide range of capacities for individual modules
- > option to add modules and expand the capacity of modules in the future

INNOVATIVE TOP DESIGN

The ready-to-build design of the Perfector-R is the result of 3 years work by a unique combination of experts from PWN, a leading Dutch water company, and qualified engineers. Existing water treatment plants were evaluated and their shortcomings identified. The result is the Perfector-R design, which:

- > can easily be built on site
- > can deal with almost all types of surface water, whether rivers, lakes or canals
- > ensures stable operation, even during strong and rapid fluctuations of raw water quality
- > offers an optimized robust process
- > ensures easy operation & maintenance due to an efficient design and a minimum of mechanical parts
- >

EXCELLENT PERFORMANCE

Compared to other designs excellent water quality thanks to:

- > a highly efficient chemical mixing system
- > flocculator internals that can be customized for actual raw water quality
- > better sedimentation design than usually encountered
- > a sustainable and fool-proof filtration system





ENVIRONMENTALLY FRIENDLY

Low energy and chemicals consumption thanks to optimized treatment process and efficient hydraulics.

SUSTAINABLE AND RELIABLE

Where conventional water treatment plants give up, the Perfector-R continues to operate smoothly during a lifetime. Thanks to its innovative design, it:

- > can easily accommodate to rapid and long-term fluctuations in raw water level and quality
- > can deal with high turbidity in water source
- > can easily be kept in good condition

PERFECTOR-P

The Perfector-P was developed as a spin off from the Perfector-R. It has all the technical process advantages of the Perfector-R, but is an essentially different product. It is no total concept like the Perfector-R; it is a purification installation with a production capacity of 10 l/sec. The installation is a unit made of steel, so the production time is short. Furthermore, it is easy to transport by truck because it is composed of parts.

PWN TECHNOLOGIES, PARTNER IN WATER SUPPLY

PWN Technologies is a subsidiary of PWN Water Supply Company North Holland. PWN supplies water to about 1.5 million people in Holland. Furthermore, PWN supports the improvement of water supply for people in developing countries, including Indonesia and Rwanda. These operations are undertaken by PWN's local affiliates. PWN holds the exclusive rights to market the Perfector series R and P worldwide.

For more information, please contact:

PWN TECHNOLOGIES

Telephone: +31 61 088 89 02

Fax: +31 70 525 61 05

Email: office@pwntechnologies.nl

Website: www.pwntechnologies.nl

PWN TECHNOLOGIES

Advanced solutions based on proven and implemented innovations

