



Top design for sustainable, advanced water treatment

Perfector-E

Emergency water unit

PWN Technologies is a leading company when it comes to developing innovative water treatment techniques. We translate our know-how into solutions in water supply. A prime example is the Perfector-E (Emergency); a self contained, easy to use, portable water treatment plant, especially designed as an emergency water unit.



Recent humanitarian disasters like the tsunami in South East Asia and the war in Darfur boosted the need for the instant and reliable supply of safe drinking water in what are mostly rural and remote areas. In close collaboration with Norit Membrane Technology, PWN Water Supply Company North Holland has developed a mobile water treatment unit, the Perfector-E, which filtrates and disinfects surface water, to provide consumable water. Its robust design and plug and play operation makes it suitable for a wide range of applications.

The Perfector-E is an excellent system for the treatment of any polluted surface water. This compact built purification system is designed to provide high quality potable water from heavily polluted surface water. Although it is not designed for desalination, it is the perfect treatment for reversed osmosis.

The Perfector-E is fed by a mobile generator and has a net capacity of 2000 litres per hour. The unit is based on membrane filtration: impurities like bacteria are retained by an automatically backwashed filter. This process is followed by disinfection through ultraviolet light.

Advantages

- ▶ Easy to use and operate
- ▶ Produces high quality potable water
- ▶ Easy to maintain
- ▶ Low initial costs
- ▶ Very robust
- ▶ Useful in any situation requiring potable water

System capacity

- Capacity** ▶ Approx. 2000 litres per hour
- Power supply** ▶ 230 Volts/3,1 kW or via a power generator (5kW)
- Production** ▶ Clear potable water, regardless of the turbidity of the source
- Aseptic** ▶ Hygienic and aseptic, regardless of the contagion of the source
- Pump** ▶ Feed pump 2,5m³/h – 3,5 bar backwash pump 12m³/h – 2 bar
- Chemical free** ▶ No use of chemicals
- Dimensions** ▶ 1,1 x 1,1 x 2,2 metres (pallet size)

References

- Places where the Perfector-E has been successfully applied:
- ▶ Aceh, Indonesia, tsunami emergency aid
 - ▶ Uganda, refugee camp (Medecins Sans Frontieres)
 - ▶ Kashmir region, Pakistan
 - ▶ Padang, Indonesia
 - ▶ Haiti (Cordaid)

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 | Velsbroek
PO Box 2046 | 1990 AA Velsbroek
The Netherlands

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

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