

OPUS[®] One

Pure Water, Anywhere, Anytime

OPUS® One – Clean Water, Anywhere, Anytime

The **OPUS® One** from **Nordic Technologies** is a portable, hand-operated water treatment unit that works entirely **without electricity**, making it the perfect solution for areas with limited infrastructure.

Using a **six-stage filtration system** with our proven **OPUS® MF 48 Plus cartridges**, the unit removes particles and bacteria down to **0.1 microns**, delivering **safe, clean drinking water** from floodwaters, lakes, or small wells. With a capacity of **5 -10 liters per minute**, OPUS® One is ideal as an **emergency response unit** and a **sustainable permanent solution** for communities without reliable power.

Lightweight and user-friendly, the hand pump is easy to operate—even for women and children—and the portable design allows it to be moved wherever water is needed most. Built on a **durable stainless steel frame** with minimal moving parts, OPUS® One ensures reliability and long service life.



Size:
Width 581
Depth 316
Height 657

OPUS® One

Stage 1: The Strainer – First Line of Defense

The process begins with a **durable strainer** at the suction end of the filling hose. Whether placed in a bucket or directly in a nearby water stream, the strainer immediately blocks large debris and particles from entering. This keeps the intake water cleaner from the start and protects the entire system. For transport, the strainer is safely stored in a protective cover mounted on the OPUS® One frame, shielding it from dust and damage.

The pump is a membrane hand pump made of food contact certified materials, FDA (Federal Food Administration) approved and conform to European regulations.

The pump is able to give 0,5 l - 17 fl oz per stroke.



At the heart of the OPUS® One's second filtration stage is a **Big Blue filter with clinoptilolite**, a high-performance natural zeolite trusted for decades in drinking water purification.

Clinoptilolite stands out thanks to its **exceptional surface area and selective adsorption capacity**, effectively removing ammonia, dissolved organics, and harmful cations. Unlike many other filter materials, it combines **superior stability with outstanding hydraulic performance**, making it ideal for processing large water volumes efficiently.

What truly sets clinoptilolite apart is its role as a **powerful natural barrier against microorganisms**. Pathogens such as giardia, cryptosporidium, bacteria, and spores—typically sized 0.5–10 microns—are efficiently trapped as water passes through the ultra-fine pore structure of clinoptilolite, which measures less than 0.05 microns. This unique mechanism allows OPUS® One to reliably meet and exceed global drinking water standards for microbial safety and turbidity.

Beyond its effectiveness, clinoptilolite is **completely natural and safe for humans**. In fact, it has even been used in animal feed—famously helping to remove radioactive contaminants from reindeer after the Chernobyl disaster.

With clinoptilolite, OPUS® One doesn't just filter water—it delivers **trusted, proven protection for clean, safe drinking water anywhere**.

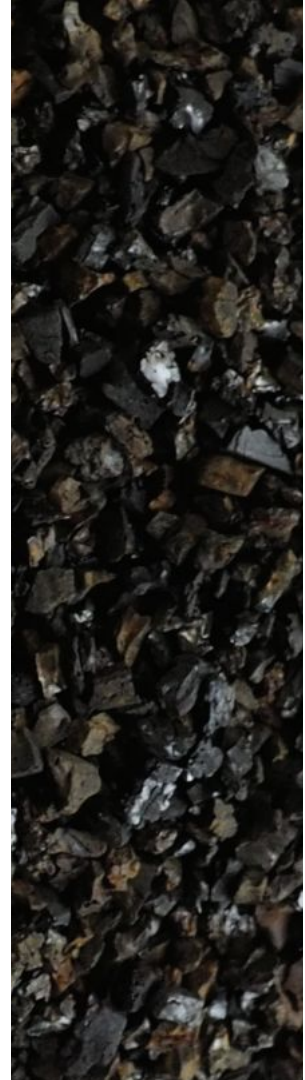


The **third stage of the OPUS® One purification process** features a Big Blue filter with **coconut shell granular activated carbon (GAC) enhanced with iron-hydroxide catalysis**. This advanced filter medium is specially engineered with a **positive surface charge**, dramatically increasing its ability to adsorb and bind contaminants carrying a negative charge.

This catalytic GAC is exceptionally effective in removing a wide range of harmful substances, including:

- **Humic substances and tannins** – improving taste, clarity, and freshness.
- **Chloramines, trihalomethanes, and phenols** – reducing chemical by-products and protecting health.
- **Color, odor, and dissolved organics** – for water that looks and tastes pure.
- **Cyanides and heavy metals** – including arsenic, boron, bromides, chromium, copper, lead, fluoride and mercury.

By combining **natural coconut shell carbon** with **catalytic iron-hydroxide activation**, this stage offers **maximum adsorption power, chemical safety, and long-lasting performance**. The result: water that is not only microbiologically safe from the first stage, but also free of chemical, metallic, and aesthetic contaminants—making it truly clean, clear, and refreshing.



Final stage is 3 stages in one - OPUS® MF 48 Plus

The **OPUS® MF 48 Plus** from Nordic Technologies is a unique **3-in-1 Point-of-Use water treatment system** designed to deliver **safe, clean, and affordable drinking water** directly where you get your drinking water.

Compact and user-friendly, the system is **easy to install and maintain**, making high-quality water accessible without hassle. Its **innovative filter design** combines a **high-performance activated carbon block**, **FilterSorb SP3 anti-limescale beads**, and an **ultrafilter** to remove contaminants, improve taste, and protect plumbing from scaling.

Unlike conventional systems, the OPUS® MF 48 Plus produces **no wastewater**—every drop of water that enters the filter comes out as purified drinking water. Its **Zero Liquid Discharge** design ensures efficiency, sustainability, and cost savings, making it an environmentally responsible choice for households.

With OPUS® MF 48 Plus, families enjoy **peace of mind, superior water quality, and a simple, reliable solution** for daily drinking water needs.

OPUS® MF 48 Plus



The OPUS® One gives 0,5 liter per stroke, giving about 6 liter per minute. If a person drinks 4 liters per day with a 15 hours operating use and a utilization of 30%, one unit can serve 405 people.

Based on those numbers for a 6 year period, the operational cost for the OPUS® One unit is € 1,97 per cubic meter water or € 20,72 per person*

**based on a quarterly exchange of the OPUS MF 48 plus cartridge and a three year exchange of the media in the Big Blue. Total cost for exchange parts for six years € 8 392,-*

Eco-friendly and power-free, it delivers safe water with a **low carbon footprint**. Meanwhile no drinking water needs to be trucked saving additional on carbon emissions.

No chlorine is used in the the OPUS® One often a cause for all different kind of health issues.

OPUS® One

OPERATING BREAKDOWN



OPUS® One EUR 2 200,-

MORE INFORMATION

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