

Portable water filter systems not just for use in crisis regions

Kirchheim, Unterallgäu (Bavaria). Germany needs to prepare, and increasingly is preparing, "critical infrastructures". Alongside snow, storms, power outages, minor earthquakes and sinkholes, water also plays a very important role. This ranges from floods and heavy rains to the loss of drinking water systems. In the Salzgitter area, for instance, some housing estates were left without usable drinking water for up to a week in spring 2017. A portable water filter system is now being presented to provide proper preparation for drinking water treatment.



It is not just in crisis situations that drinking water is a valuable resource – the lack of drinking water supply is a global problem. Around 663 million people worldwide have no access to clean water, and every day 1,400 children under five die from diarrhoea and associated diseases, in part brought on by unclean water. That finding comes from the 2016 Water Report by the German charitable organisation Welthungerhilfe. There is a huge need for action worldwide in improving the supply of drinking water.

This is where the Ujeta Care steps in with its Ujeta water filter system to create a stable water infrastructure.

But what is the Ujeta water filter system?

Ujeta stands for water (Kosovan "uje") and life (Kosovan "jeta"). The Ujeta water filter is one of the smallest and most effective water treatment systems, with a filter output of up to 5,000 litres per unit. As a portable, lightweight water filter (weighing just 340 grams), it is quickly ready to use and filters the water in the place where it is needed, not where it is extracted. Thanks to combined ultra-filtration using activated carbon and membrane filters (LOG 6 classification), the Ujeta water filter removes 99.999 per cent of all bacteria and germs, along with heavy metals, drug residues, chlorine products and chlorine decomposition products, pesticides, organic compounds and asbestos fibres.

The high-quality activated carbon filter "Made in

Germany" filters with a filter fineness of up to 0.45 µm, and also exploits the high absorption effect of the activated carbon as a pure natural product. The membrane filter, composed of high-tech hollow fibres, has a filter fineness of up to 0.1 µm. Bacteria, germs, moulds, metal particles and microorganisms are thus retained in the membrane filter, while valuable minerals remain intact in the water. Energising bio-crystals and a special turbulence technique gives the filtered water a spring-water quality. Surface water from wells, freshwater lakes or rivers is thus transformed into germ-free drinking water.

The principle of helping people to help themselves is aimed at empowering emergency personnel and the general population to take preventive measures in preparation for crisis situations. People fall ill and



helpers can be laid low if, for example, E.coli bacteria lead to diarrhoea and associated diseases. Ujeta Care water filters can filter water from wells, freshwater lakes, rivers and tanks, using the removable ten-litre plastic container. A fleece mat, integrated into the plastic container, pre-filters the water and removes coarse particles. Using a pump unit and a cartridge with special filters, the water is further filtered and then passes into the heart of the system: the Ujeta water filter. There, it is transformed into clean drinking water, before bubbling through a narrow pipe into the drinking cups. In one minute, around three litres of water can be filtered like this to make clean drinking water.

The system has proved, and is still, a massive success on the island of Haiti in the Greater Antilles, where 300 children and young people are being supplied daily with clean drinking water. To date, a total of ten of these Ujeta Care water filter systems are in use in seven children's refuges run by the charity Kindernothilfe Österreich.

But it is not just crisis regions that can benefit from this development. Alongside the Ujeta Care, the Ujeta water filter is also available as a **Home + Travel Set**. It ensures clean, clear drinking water whilst travelling, and equally in the home. The "Home + Travel Set" comprises a perlator adapter, a rotary adapter and the Ujeta water filter. Thanks to its simple plug-and-play installation, the water filter can be fitted without major effort to many proprietary water taps, thus ensuring fresh drinking water anywhere straight from the tap – whether you are in a hotel, on the campsite or just at home. The only tool required is a pipe wrench.

About Ujeta GmbH

Ujeta GmbH is a company based in Kirchheim (Allgäu). All Ujeta products are manufactured exclusively in Germany. That ensures high-quality "Made in Germany" products, with a guarantee of best manufacturing quality, and also secures jobs in the region. The Ujeta water filters are produced by Schneider Kunststofftechnik in Kirchheim, which has been specialising in high-quality plastics processing for over 20 years. The family-run business is successfully DIN EN ISO 9001 and DIN ISO 14001 certified, and is an active participant in "Umweltpaket Bayern", an agreement between the Bavarian state government and Bavarian business for cooperative environmental protection.

The effectiveness of the Ujeta water filter was confirmed by the well-known drinking-water laboratory of Dr. Staber & Kollegen. Scientific 'before and after' examinations using brackish pond

Instruction and training in using the system in crisis regions. Here in use at children's refuges in Haiti run by the charity Kindernothilfe Österreich.



Helping people to help themselves; even children can get involved in ensuring a supply of water.



water have shown that the Ujeta water filter is ultra-efficient in filtering out coliform bacteria, intestinal enterococci and E.coli. Where the brackish pond water exhibited 200.5 MPN/100 ml E.coli, after filtration using the Ujeta filter this was 0 MPN/100 ml (manufacturer's information).

Source, photos: Redaktion Jensen media