

Noah Water Systems

Noah Water Systems currently offers two portable water purification systems. The Nomad is the high volume unit, capable of satisfying the drinking water needs of an entire small town or village and is well suited for disaster response. The Trekker will fulfil the water needs of individuals and groups while providing total mobility. While the Trekker and Nomad differ in capacity, they both use the same patented technology. In addition to visibly cleaning the water, they also methodically kill the bacteria and virus hidden to the naked eye. That's what sets the Nomad and Trekker apart from all other products on the market. Noah has combined filtration and Ultraviolet treatment, engineering them together into one cohesive process, creating water purification units that are completely portable. Every unit is assembled and manufactured by hand in the United States at our Michigan facility.

The Need For A Supply Of Safe Drinking Water...

Water.... We can't live without it. Pure, clean water is an absolute must for our survival. Experts estimate that over 1 billion people lack safe drinking water. That's nearly a quarter of the world's population. Each year, more than five million people die from water-related diseases; four million of them are children. You might be faced with a critical situation where lives hang in the balance.... Or.... Maybe finding safe water is just simply impractical or inconvenient. Whether you're providing aid to regions affected by the ravages of Mother Nature, assisting third-world nations with insufficient infrastructures or simply confronted with remote terrain that lacks effective water treatment methods, an abundant, safe and healthy drinking water supply is always the highest priority. Noah Water Systems was formed by individuals who have been involved in disaster relief and humanitarian efforts worldwide for over 30 years.

As Often Is The Case, Necessity Is The Mother Of Invention...

The engineers of this group of disaster relief volunteers were able to analyze the problem and develop a solution in a portable, self-contained, comprehensive water purification system. Noah Water Systems was formed by these very people with the intent of producing and distributing their products worldwide.

Field Tested, Effectiveness Proven...

Noah experts tested, refined, and retested their portable water purification units from the Panamanian jungles to Sub-Saharan Africa to the frozen tundra of the upper Midwest. The results demonstrate that Noah's products, which combine sediment and carbon filtration with patented ultraviolet technology, provide purified, great tasting water that is 99.9999% free of deadly bacteria and virus, and the conditions they lead to including:

- Giardia
- Cryptosporidium
- Diphtheria
- E. Coli
- Legionnaires Disease
- Infectious Jaundice
- Tuberculosis Causative
- Enteric Fever
- Typhoid Fever
- Cholera
- Dysentery
- Staphylococcus Infections
- Streptococcus Infections

Additionally, sediment, organic matter, volatile chemicals, THM's, pesticides and herbicides are effectively removed providing clean, clear, great tasting and SAFE water.

Two Models Introduced...

The result is the introduction of two totally self-contained water purification systems: the 1-gpm Trekker and the 25-gpm Nomad. While differing in size, flow-rate and cost. Both have been designed with ease of use in mind.

Noah Water Systems manufactures and sells the Nomad, our portable water purification system capable of producing 25 gallons / 95 litres per minute or 36,000 gallons / 136,800 litres per day. The Nomad will satisfy the need for large volumes of safe drinking water using any fresh water source: well, lake, river, stream, pond and even polluted floodwaters. Like its Trekker counterpart, the Nomad is a completely self-sufficient purification system. Every component is securely packaged in two custom-built ATA flight cases, designed and constructed for rigorous travel. Each container is fitted with heavy-duty handles and loading skids for easy forklift mobility. Both cases have been specifically engineered to fit within standard aircraft cargo doors. The Nomad is entirely portable and comes complete with every component needed for operation, including its own generator, pump, hoses and fittings. Setup and operation is easy and effective, with assembly limited to quick-connect hoses. The Nomad portable by Noah Water Systems is a completely self-contained / self-sufficient water purification unit, making it the *ideal choice* for remote water service and the *only choice* in portable disaster response.

Applications for the Nomad include:

- Disaster Response Efforts
- Refugee Camps
- Feeding Programs
- Remote Work Camps
- Displaced Persons Emergencies
- Remote Villages and Towns

The Nomad also gives you plenty of flexibility, allowing it to be left in place for hours, days, months, or years at a time. It's durable enough to provide years of trouble-free service to a town or village and agile enough to journey from refugee camp to disaster scene at a moment's notice. With the ability to purify 36,000 gallons of chemical-free water every day, the Nomad is, without a doubt, the undisputed leader in compact, remote water treatment.

The Trekker purifies 1 gallon / 3.8 litres per minute of safe drinking water from any fresh water source: well, lake, pond, river or flood. It's compact enough for the needs of a single explorer, and rugged enough for a village of 300. The versatility of the Trekker makes it the ideal choice in areas where water service is either impractical or unavailable. It's a complete water treatment system in a compact, easy-to-use package. Operating the Trekker is fast and simple, using 12-volt DC current that can be supplied from any source: auto, truck, RV, boat or airplane, even the 12-volt leads from most generators. You can use the Trekker to fill everything from a canteen to a gallon jug to a 1000-gallon tank and beyond. It's that simple! Make the Trekker by Noah your constant travel companion for:

- **Disaster Response Efforts**
- **Camping, Hunting and Fishing Trips**
- **Missionary and Medical Team**
- **Marine and RV use**
- **Remote Villages and Expeditions**
- **Military use**

While the Trekker and Nomad differ in capacity, they both use the same patented technology. In addition to *visibly* cleaning the water, they also methodically *kill the bacteria and virus* hidden to the naked eye. That's what sets the Nomad and Trekker apart from all other products on the market. We've combined filtration and Ultraviolet treatment, engineering them together into one cohesive process, creating water purification units that are ***completely portable***.

Pre-Filtration

The purification process starts with a ***pre-filter***, screening the source water at the point of entry. In the Noah product line, the pre-filter screens are incorporated with the inlet hose. This is essential in preventing the system from becoming plugged with rocks, mud, feces and other large debris.

Sediment Filtration

The water passes through a sediment filter. Adding a sediment filter provides 5-micron filtration to extend the life of the carbon filter by removing unseen sediment that will prematurely clog the

filter. This would include the removal of:

- **Sand, Silt and Scale**
- **Dirt and Mud**
- **Other Suspended Solids**

Carbon Block Filtration

The carbon block filtration process is actually comprised of two distinctly different procedures.

1. **Chemical Bonding:** Uses **activated carbon** (sometimes called *activated charcoal*) which has a slight electro-positive charge added to it, making an even more attractive bonding agent to chemicals and impurities. When water is forced through the solid carbon block, it is forced to slow down and increase the amount of contact time with the carbon, allowing the carbon bonding to take place.
2. **Mechanical Straining:** The carbon is compacted into a solid brick of material. Every molecule of water is forced through the microscopic pores of carbon, effectively straining out particle matter.

OTHER CARBON FILTRATION BENEFITS

- **Replaceable Cartridge - Easily Changed**
- **Self-Clogging Cartridge - No Guesswork**
- **Does Not Waste Water**
- **Does Not Remove Beneficial Minerals such as Calcium, Magnesium and Fluoride**

Ultraviolet Treatment

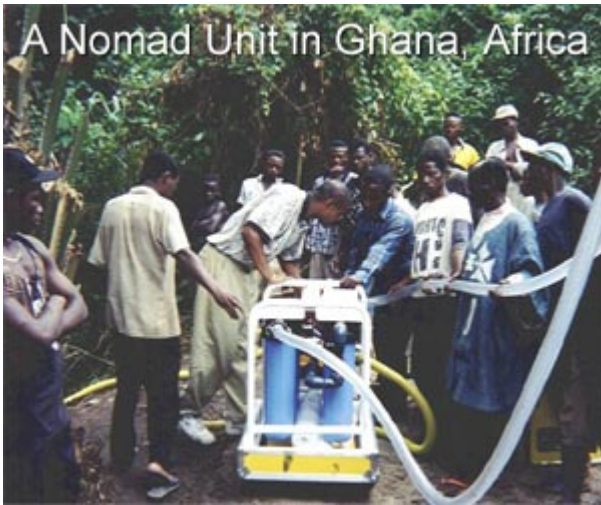
Ultraviolet treatment is the final, and in most cases, the **most important step in the purification process**. After the carbon filter has cleansed the water, it is exposed to intense dosages of UV light. This exposure effectively **destroys viruses, bacteria, fungi, algae and protozoa**.

- UV light destroys a microorganism by scrambling its DNA structure
- The cells are rendered sterile and cannot reproduce
- The cells are dead and no longer a threat

Trekker in the field



A Nomad Unit in Ghana, Africa



The first clean water supply for the village



