



APRO 120 UN

**A mobile or stationary water purification station for extreme conditions
Suitable for perfect drinking water from any source or surface water!
Self-sufficient inland shipping: making safe drinking water from surface water!**

The **APRO 120 UN** is a portable (or stationary) water purification station. It provides top quality drinking water under extreme conditions with limited access to electricity:

- Emergencies without access to clean water
- Floating facilities (ship, houseboat, etc.), drinking water supply at remote locations (islands, e.g.)
- Recreational accommodations, temporary accommodations, event locations, etc.

Distinctive features:

- ❖ **Extremely energy-saving & suitable for any energy source: works on DC24V**
Patented ultra-low energy consumption technology saves up to 50% energy and enables any power source: a small solar panel, car battery (with an adapter), electrical network (DC).
- ❖ **Smart remineralization for delicious and healthy water**
Smart remineralization system ensures the optimal balance of minerals and ensures healthy and tasty water.
- ❖ **Plug&Play**
Easy maintenance & user-friendly operation. No need for highly qualified personnel.
- ❖ **Less anti-scale agent required**
Patented pre-filtration cartridge (Viking Pro-H) with anti-limescale effect reduces the need for antiscalant agents.

System configuration:

- Self-priming water pump with suction line & washable pre-filter for open water sources
- Automatic disinfection system
- Patented pre-filtration cartridge with anti-scale effect (Viking PRO-H)
- Innovative reverse osmosis (RO) system with double pump (energy saving)
- Remineralization of membrane filter water with microfiltration 0.1 micron (K7B)
- Fully equipped electronic control panel for automatic process control
- Accumulation tank 80L

The advantages of the APRO 120 UN:



Technical specifications of the APRO 120 UN

MODEL	APRO 120 UN
Membrane flow rate	120 litres/hour (2.9 m ³ / per day)
Membrane number	2
Membrane type	600GPM
Pre-filtration cartridge	Viking PRO B520-H
Max inlet TDS, ppm	2000
Salinity reduction, %	to 95%
System recovery	50-75%
Inlet pressure, bar	1-4
Electrical supply	24VDC (adapter AC220V / DC24V)
Dimensions (L x W x H), mm	685 x 780 x 925 (excluding optional pre/post chain technology)
Net weight / kg	75

The **Aquaphor Group** belongs to the absolute top of market leaders in the field of water treatment systems, from small water filter jugs for domestic use, reverse osmosis systems for the catering industry to large industrial water purification systems for hospitals, the food industry and sectors that place extremely high demands on process water. The **Aquaphor Professional** division mainly focuses on systems for applications in the gastronomic, medical, agricultural and industrial sectors. This division operates from Sillamäe in northeastern Estonia, on the coast of the Gulf of Finland. It is because of this that this department has years of experience in extracting high-quality pure drinking water from (sea) surface water, among other things, and there are thousands of Aquaphor installations in daily use along the shores of the Scandinavian and Baltic states. Especially in remote locations such as islands with small populations where the construction of a permanent drinking water pipeline from the continent is either far too expensive or impossible. The experiences gained here have led to several innovative patents in the field of filter materials and techniques. And this knowledge has led to a very innovative and high-quality system for extracting drinking water from surface waters: the **APRO 120 UN**. For example, inland vessels can use this to produce safe and healthy drinking water from river water. This makes it possible to replace large drinking water tanks with a much smaller tank and the weight savings that this yields benefit the loading capacity and / or the draft of the (aft) ship.



Info by website: <https://www.h2optimizer.nl/home-en/h2optimizer-water-treatment-units/>