

AQUAPHOR
PROFESSIONAL

**Emergency
Water Purification**



Pure water without limits

During an emergency (hurricanes, flooding, manmade disasters, etc.), people should especially have access to water, sanitation, and hygiene.

Safe water is critical to sustain human life and reduce morbidity.

Often, an emergency causes public water and electricity sources are failing.

Municipalities and the population are ought to seek alternative sources of safe drinking water.

The best alternative to a public water source

The portable reverse osmosis (RO) station is a simple and reliable solution for providing safe drinking water for rural areas with limited water sources. Aquaphor Professional has designed APRO UN — a special line of portable low-maintenance water purification systems that are able to operate in critical circumstances. When public water and electricity sources are failed, APRO UN produces safe drinking water from any water source while consuming a small amount of electricity from available sources.

Advantages

- **APRO UN** series has extremely energy-saving (50% less energy than in analogs) patented technology. That means the systems can be used when public electrical sources are failed. A small solar panel, car battery (with an adapter), or electrical power generator are enough to feed the system.
- **APRO UN** systems work with any water source* when public water sources are not available.
- All **APRO UN** units are equipped with an automatic disinfection system ensuring protection against viruses and bacteria.
- High-quality reverse osmosis systems with smart remineralization function carefully delete all harmful impurities and ensures the optimal mineral balance for health.
- Purified water is accumulated in a sterile tank. No storage expenses.
- **APRO UN** systems do not require an on-site engineer: the systems are user-friendly, while high-quality spare parts are durable.

Applications



Emergency situations with no access to pure water and limited access to electricity



Floating facility (ship, boathouse)



Summer cabins



APRO 120 UN

A portable water purification station providing up to 120 liters/hour of premium quality drinking water under extreme conditions.

Compact and portable design

APRO 120 UN is designed to suit access- and space-limited areas.

Extremely energy-saving

Patented ultra-low energy consumption technology saves energy and allows any power source: a small solar panel, car battery (with an adapter), electrical power generator, electrical network (DC).

Works with any water source

The system purifies any open water source (river, lake, pond)*.

Mineralization system

APRO 120 UN provides safe, pure drinking water with optimal healthy mineral balance.

Fully automated

The system is fully automated and user-friendly.

* Except seawater and water with high oil content.

Permeate flow, max	120 liters/hour
Prefiltration	✓
Accumulation tank	80L
Max inlet TDS, ppm	2000
Reduction of salt content, %	Up to 95%
System recovery	50-75%
Power Supply	24VDC (adapter 220/24)
Dimensions (LxWxH), mm	685 x 780 x 925
Net weight, kg	75



APRO 400 UN

A portable water purification station providing up to 400 liters/hour of premium quality drinking water under extreme conditions.

Compact and portable design

APRO 400 UN is designed to suit access- and space-limited areas.

Extremely energy-saving

Patented ultra-low energy consumption technology saves energy and works with a solar panel or electrical power generator.

Works with any water source

The system purifies any open water source (river, lake, pond)*.

Mineralization system

APRO 400 UN provides safe, pure drinking water with optimal healthy mineral balance.

Fully automated

The system is fully automated and user-friendly.

* Except seawater and water with high oil content.

Permeate flow, max	400 liters/hour
Prefiltration	✓
Accumulation tank	40L
Max inlet TDS, ppm	2000
Reduction of salt content, %	Up to 95%
System recovery	up to 90%
Dimensions (LxWxH), mm	1150 x 770 x 1390
Net weight, kg	89



APRO-UF 10 000 UN

A portable containerized water purification station with ultrafiltration step providing up to 10 000 liters/hour of premium quality drinking water under extreme conditions. Suitable for brackish water (up to 10 grams of salt per liter).

Portable containerized station

All-in solution for emergency brackish water purification is easily portable and protected from precipitation and temperature fluctuations.

Extremely energy-saving

Patented ultra-low energy consumption technology saves energy and works with an electrical power generator.

UF pre-filtration

Works with any water source, including high-salinity brackish water

The system purifies practically any open water source (river, lake, pond, brackish water).

Mineralization system

APRO-UF 10000 HS UN provides safe, pure drinking water with optimal healthy mineral balance.

Fully automated

The system is fully automated and user-friendly.

Permeate flow, max	10000 liters/hour
Prefiltration	✓
Accumulation tank	800L
Max inlet TDS, ppm	10000
Reduction of salt content, %	Up to 95
System recovery, %	30-90%
Dimensions (LxWxH), mm	6060 x 2440 x 2590

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