

**AQUAPHOR**  
PROFESSIONAL

**Trailer-Mounted Mobile  
Surface Water  
Treatment System**



# Trailer-Mounted Mobile Surface Water Treatment System

## Product Overview

This compact, fully integrated mobile treatment unit is designed to deliver high-quality drinking water directly from natural surface sources—anywhere, anytime. Built into a robust trailer platform, it combines mobility with advanced multi-stage purification, making it ideal for remote locations, emergency response, and decentralized water supply.

## Process overview

Raw water is first drawn through a submerged self-priming pump and pre-treated via a hydro cyclone and precise coagulation dosing, ensuring efficient removal of suspended solids.

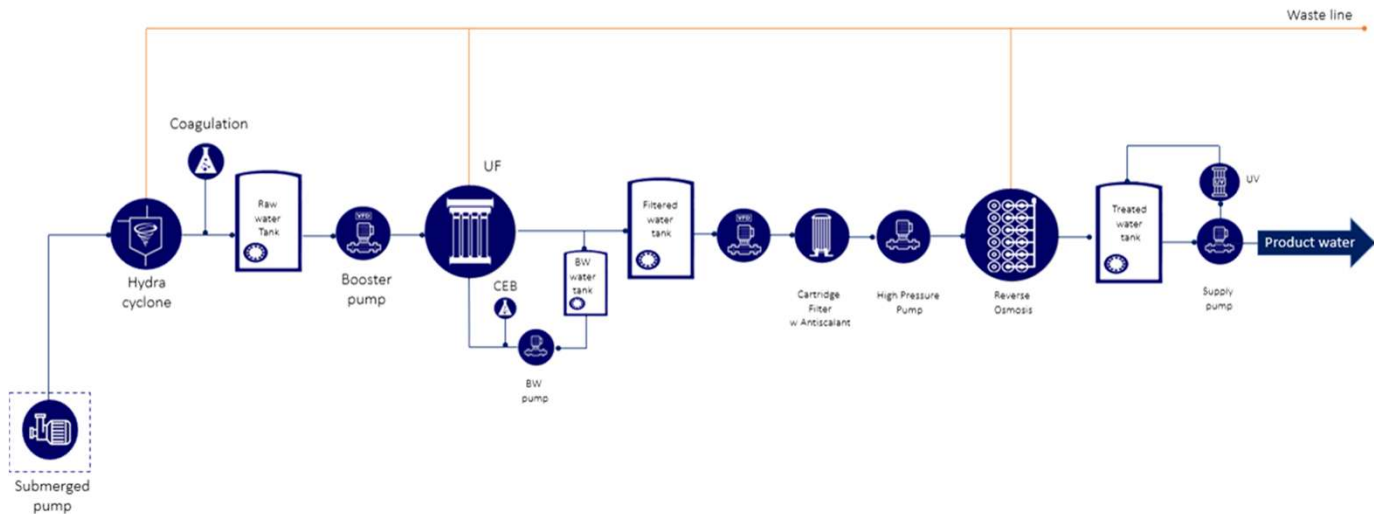
The system then stabilizes flow in a 300 L raw water tank before boosting pressure for ultrafiltration (1000 LPH), effectively removing turbidity, bacteria, and larger contaminants.

Following intermediate storage, water undergoes advanced treatment through antiscalant-protected cartridge filters followed by a fully automated high-performance APRO Reverse Osmosis system (1000 LPH), eliminating dissolved salts, heavy metals, and organic impurities.

The treated water is stored in a product tank equipped with UV disinfection, guaranteeing microbiological safety.

A final supply pump delivers clean, safe water on demand.

This unit represents a powerful combination of mobility, reliability, and advanced treatment technology in a single, compact system



## Trailer-Mounted Mobile Surface Water Treatment System

Compact and lightweight mobile surface water treatment station featuring robust multibarrier technology for treating low/medium salinity brackish water from ground or open water sources.



### Key Benefits:

- Mobile
- Plug & Play installation
- Rapidly deployable
- Patented AQUAPHOR's multi-stage UF-RO technology
- Fully automated
- Suitable for installation and operation in remote areas

### Equipment list

• Submerged self-priming pump	1 pc.	• Filtered water tank 300 L	1 pc.
• Hydro cyclone	1 pc.	• Pre-filter cartridges with Antiscalant effect	2 pc.
• Coagulation dosing pump	1 pc.	• APRO-1000 Reverse Osmosis system	1 pc.
• Raw water tank 300 L	1 pc.	• Product water tank 300 L	1 pc.
• Booster pump	1 pc.	• UV disinfection	1 pc.
• AP-UF-1000 Ultrafiltration	1 pc.	• Supply pump with VFD	1 pc.

### Specifications

Features	AP-UFRO-1000-TR
Nominal filtration capacity, LPH	1000
Dimensions, mm	3050 X 1500 X 1800
Max. inlet TDS, ppm	3,000
Nominal recovery, %	60-90%
Power supply	single-phase, 220V 50 Hz
Power consumption, kW	2.2 kW