

# AMAYA

## MEMBRANE WATER TREATMENT PLANTS

More than  
**20 YEARS**  
on the market

### Mobile membrane WTPs **AMAYA M**

- Emergency supply of drinking water in crisis situations as part of an integrated rescue system
- Temporary or permanent solution for drinking water supply
- Ensuring of drinking water supply for sports and cultural and other mass events

### Stationary membrane WTPs **AMAYA S**

- A permanent supply of drinking water for villages and town suburbs using unsuitable local sources (exact design of requested capacity)
- Production of drinking and process water for industry
- Part of complex water treatment projects
- Tertiary treatment of waste water for reuse



## Advantages of the technology

- The new filtration technology (dead-end, in-out) using ceramic membranes with pre-coagulation
- High chemical resistance and mechanical robustness in one technological step
- Low washing water consumption (about 0.5 - 1.0 % of produced water) and power consumption (0.1 kWh/m<sup>3</sup>)
- Fully automated operation, remote control with continuous measurement of raw and treated water quality
- High removal efficiency of organic matter, color, turbidity, microorganisms and virus's
- Suitable for both surface and underground water sources with significant quality fluctuations
- Optional integration of additional sorptive step
- Modular concept – easy capacity projection

# Technical specifications



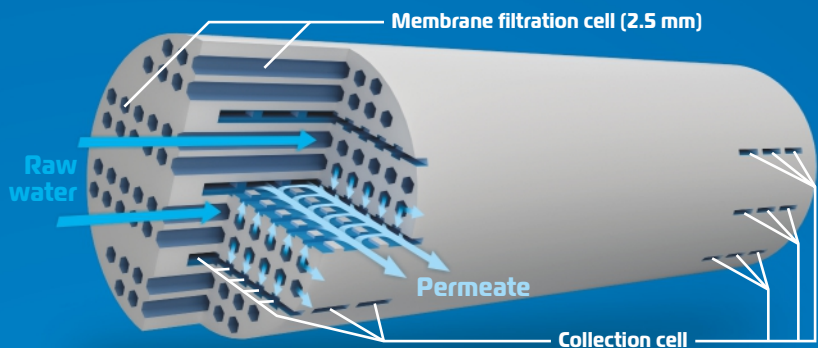
Type	AMAYA M 5	AMAYA M 10	AMAYA M 25	AMAYA S
Maximum capacity [m³/h]	5	10	25	10 – 7 000
Daily capacity [m³/d]	120	240	600	240 – 168 000
Permeate water tank [L]	1 000	3 000	5 000	*
Installed power supply [kW]	8	10	16	*
Plant weight [kg]	3 000	6 500	10 000	*
Dimensions**	ISO 10'	ISO 20' HC	ISO 40' HC	*
Foot-print area** [m²]	8	15	30	*

\* Water treatment plant can be designed individually according to client requirements  
 \*\* Indicative parameters, which may vary depending on the technical layout and scope of delivery

## Ceramic membrane element diagram

The heart of the water treatment plant is a ceramic element with filtration area of 25 m² whose pores have a size of 0.1 microns (flux 200 L/(m²·h). The number of individual elements depends on the maximum required water flow.

The membrane filtration system is a reliable barrier way for removal of solid microparticles, turbidity, microorganisms and other contaminants in water from various sources of water.



## AMAYA M 5 units

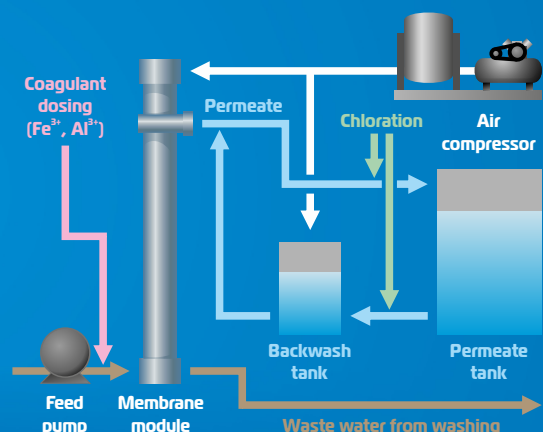
ENVI-PUR has two AMAYA M 5 mobile units. Both devices can be used as a pilot plant to verify the functionality and technical arrangement adjustment prior to the new construction and reconstruction of water treatment plants.

Both units are also used for emergency drinking water supply in case of an emergency or to provide drinking water for a pre-planned sports, cultural and other events.



## Process diagram

- Direct filtration
- The wash interval is 1.5 - 20 hours depending on the quality of the raw water



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