



HEADWORKS
BIOLOGY
SEPARATION
▶ MEMBRANE
DISINFECTION
BIOSOLIDS
SYSTEMS

ALL-IN-ONE

COMPACT

PLUG AND PLAY

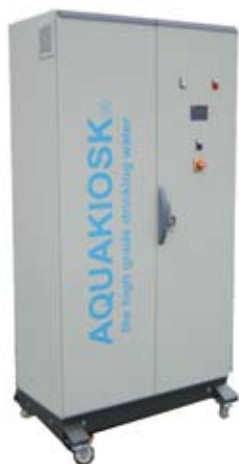
UPGRADEABLE

▶ Applications

- Small communities
- Emergency uses
- Industrial uses
- Remote locations
- Resorts

▶ Main characteristics

- Aquakiosk® 1 module
- Aquakiosk® 2 modules
 - Switch easily and at anytime from 1 to 2 modules



AQUAKIOSK® is a compact, automatic and autonomous unit producing up to 20 m³ per day of Ultrafiltered water from a network, groundwater or surface water supply source.

MAIN FEATURES

- Bacteria and Cysts removal > 7 log
- Viruses removal > 6 log
- Autonomous and fully automated

- User friendly: easy to install and operate (Commissioning in one day)

MEMBRANE TECHNOLOGY: AQUAKIOSK®

Degrémont Technologies-Aquasource's Ultrafiltration is simply a physical process for the removal of particles such as turbidity, bacteria and viruses. This filtration technique involves passing water through porous and hollow fiber membranes. The membrane wall acts as a filter for all particles larger than 0.01 micron: pollen, algae, parasites, bacteria, viruses, germ and large organic molecules. The result is a perfectly pure water with a turbidity of lower than 0,1 NFU.

The protection of the membrane is ensured by a 100 µm pre-filter. Pre-filtered water is distributed to the modules using the feeding valves. Under the effect of the pressure, water crosses the Ultrafiltration membrane. Ultrafiltered water is then collected and directed to the treated water outlet.

HOW IT WORKS

The AQUAKIOSK® is a simple, robust machine developed by people with an expert knowledge of rural environments. The different cycles of operation are controlled by PLC and a series of automatic electric valves. Only connection to hydraulic circuit is required.

The AQUAKIOSK® is equipped with all the accessories required for proper operation. Operation and maintenance require no particular skills and can easily be performed by the local community.

TECHNICAL DATA

Aquakiosk® Model	Number of modules	Production ⁽¹⁾
		m ³ /day
Aquakiosk® 1	1	10
Aquakiosk® 2	2	20

(1) at 20°C depending on raw water

► Standard

- Feeding pump
- Backwash tank with pump and cleaning in place
- Dosing pump for chlorination
- PLC (Programmable Logic Controller)
- Unit equipped with all elements for extension from 1 to 2 modules

► Materials

- Cellulose triacetate module type A1A35
- PVC pipes
- Stainless steel pumps
- Galvanized steel frame
- Epoxy steel plate housing
- Raw water inlet diameter (ND/Ext) U3P PVC F1" G
- Treated water outlet diameter (ND/Ext) U3P PVC F1" G
- Backwash water (ND/Ext) U3P PVC F1" G

DIMENSIONS

Aquakiosk® Model	Number of modules	I x h x w	Flooded Weight
		mm	kg
Aquakiosk® 1	1	1020 x 2020 x 706	380
Aquakiosk® 2	2	1020 x 2020 x 706	445

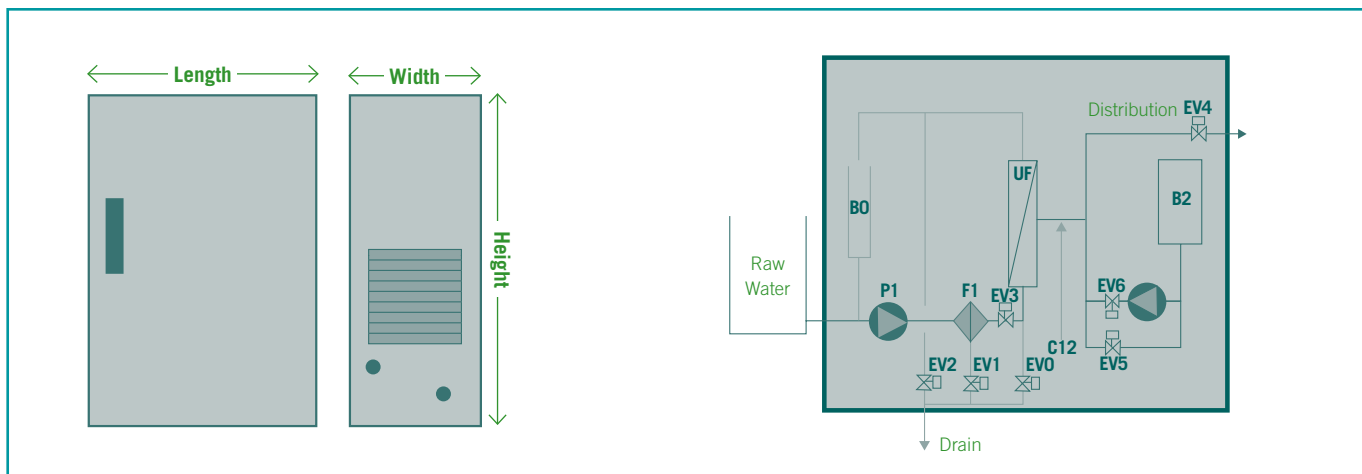
- Voltage: 230 V single phase
- Installed power: 1200 W
- Production backpressure: < 1 bar

► Remote controls and alarms

- General alarm can be activated using the relay
- On-screen alarm indicators
- Dry contact available for several alarms

► Options

- Communication card (RS 232 or RS 485)



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