

# Ultrazur™ aqs450F

POLISHING DRINKING WATER THROUGH  
ULTRAFILTRATION MEMBRANE  
TECHNOLOGY



**DRINKING  
WATER**



GUARANTEE THE HIGHEST SANITARY  
QUALITY OF YOUR DRINKING WATER  
THROUGH ULTRAFILTRATION MEMBRANES

**+** **HEALTH**  
Clean water that is free of  
pathogens micro-organisms

**+** **EFFICIENCY**  
The high performance of  
ultrafiltration



# INNOVATION

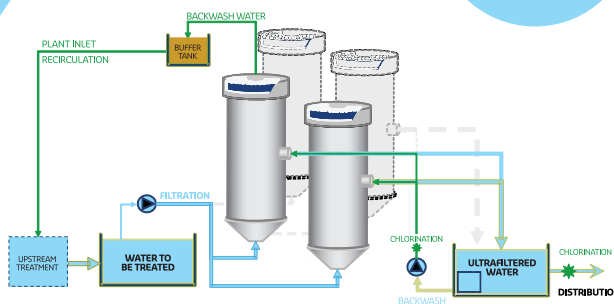
DEAD-END FILTRATION SYSTEM REDUCES ENERGY CONSUMPTION AND GENERATES AN EFFECTIVE BACKWASH.

## KEY FIGURE:

**20** plus years of Degrémont experience in ultrafiltration membrane systems.

Ultrazur™  
aqS450F

DRINKING WATER



Ultrazur™ aqs450F is part of the range of water treatment systems by ultrafiltration membranes specific to the production of potable water. The dead-end filtration mode is the aqs450F's distinction.

## Ultrazur™ aqs450F TECHNOLOGY...

For combined treatments aimed at the elimination of organic matter and micro-pollutants, the Ultrazur™ aqs450F is positioned after a granular media for retention of pathogenic micro-organisms as part of the polishing treatment.

	I Block	H Block
Combination of modules per unit	24, 28 or 32	48 or 56
Average unit capacity in m <sup>3</sup> /h at 20° C	300 - 400	600 - 700

**Total elimination of pathogenic micro-organisms:** The Ultrazur™ aqs450F system is designed to function in alternating modes from long filtration cycles to short backwash cycles. During filtration cycles, water passes through what is referred to as "hollow-fiber" membranes that retain all particles larger than 0,01 µm (virus, pathogenic microorganisms). These accumulated particles are eliminated at regular intervals during very short reverse backwash using ultrafiltered water. The backwash is recycled back to the plant inflow.

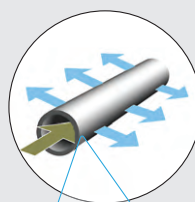
## AMONG OUR REFERENCES:

- Apremont, 85, FRANCE (40,000 m<sup>3</sup>/d capacity)
- Mezieres-sur-Couesnon, 35, FRANCE (25,000 m<sup>3</sup>/d capacity)
- Nemours-St-Pierre, 77, FRANCE (9,600 m<sup>3</sup>/d capacity)

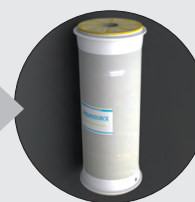
## ...WHAT IT CAN DO FOR YOU

- + EFFICIENCY:**
  - High-performance clarification treatment utilizing membranes
- + ECONOMY:**
  - Strong productivity of dead-end filtration
  - Low energy consumption
- + FLEXIBILITY:**
  - Small system footprint
  - Automated function
- + SECURITY / HEALTH / QUALITY :**
  - Bacteriological barrier: total retention of pathogenic micro-organisms
  - Low dosage of chlorine in discharged water
  - DGS (French Sanitation Authorities) approval of the Aquasource module for the production of drinking water

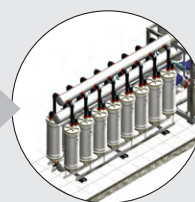
1 Membrane



2 Module



3 Block



The membranes used in this process are hollow-fiber membranes manufactured by Aquasource. Their cutoff – the size of the smallest particles filtered out – are in order of 0.01 µm.

## Degrémont

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