

Ultrafor™

BIOLOGICAL PURIFICATION BY
HOLLOW FIBER ULTRAFILTRATION
MEMBRANES



URBAN
WASTEWATER

GUARANTEE THE WATER QUALITY BEYOND
THE HIGHEST STANDARDS

⊕ **PERFORMANCE**

A quality of treatment optimized
by ultrafiltration

⊕ **SUSTAINABLE DEVELOPMENT**

Protection of nature, local populations,
and water resources

suez
environnement

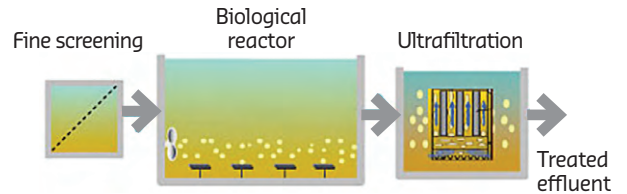
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INNOVATION

USING MEMBRANE TECHNOLOGY
TO BETTER CONTROL THE SEPARATION
BETWEEN WATER AND SLUDGE.

KEY FIGURE:

0.035 μm nominal
pore size creating a physical barrier
against bacteria.



Ultrafor™ is a process of wastewater treatment (residential and industrial) by ultrafiltration membranes. Adapted to all installation sizes, Ultrafor™ combines a biological treatment with membrane filtration.

Ultrafor™ TECHNOLOGY...

Ultrafor™ combines both a biological treatment using activated sludge and a clarification by immersion of ultrafiltration membranes. Water to be purified enters into a reactor where it is put in contact with a purifying bacterial mass before passing through the membranes.

An almost total elimination of SS: Ultrafor™ functions according to the Out /In principle of immersion filtration, in other words a filtration flow from exterior to interior.

Membranes are bundled in modules set within racks, which are placed one next to the other in an immersion tank.

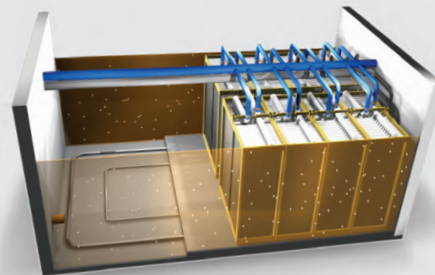
These hollow fiber membranes have of 0.035 μm nominal pore size, which creates a true physical barrier for the elimination of bacteria, and helminth eggs, and a reduction in fecal coliforms.

AMONG OUR REFERENCES:

- Lusail Doha, QATAR (60,000 m³/d capacity)
- La Morée, 93, FRANCE (60,000 m³/d capacity)
- Bréhat, 22, FRANCE (300 m³/d capacity)

...WHAT IT CAN DO FOR YOU

- + **PERFORMANCE:**
 - Production of a quality effluent
- + **SUSTAINABLE DEVELOPMENT:**
 - Protects nature and its biodiversity with an effluent quality that allows discharge in protected zones
 - Population protection with a guarantee of sanitation safety
 - Protection of resources thanks to the option of reusing effluent for specific needs (irrigation, watering city parks and gardens, etc.),
 - Compact size reduces the environmental footprint
- + **SAFETY :**
 - A totally automated operation assures the safety of operating partners



The membranes used in this process are hollow-fiber membranes manufactured by the GE Company.