

Ultrafor™

biological purification by hollow fiber ultrafiltration membranes

urban wastewater



guarantee the water quality beyond the highest standards

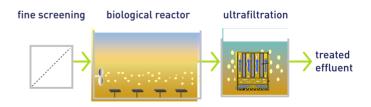
- o performance
 - a quality of treatment optimized by ultrafiltration
- o sustainable development

protection of nature, local populations and water resources

innovation

using membrane technology to better control the separation between water and sludge

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





key figure

D. D35

μm nominal pore size creating a physical barrier against bacteria



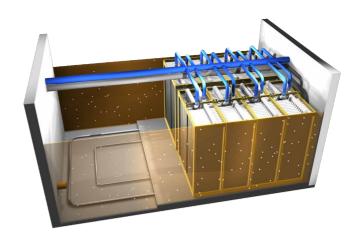
Ultrafor™ technology...

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 $0.035~\mu m$ nominal pore size, which creates a true physical barrier for the elimination of bacteria, and helminth eggs, and a reduction in fecal coliforms.



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

... what it can do for you



safety C

production of a quality effluent



sustainable development

- protects nature and its biodiversity with an effluent quality that allows discharge in protected
- 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.)
- o compact size reduces the environmental footprint

a totally automated operation assures the safety of operating partners

SUEZ treatment infrastructure

innovation.mailin@degremont.com www.degremont.com

among our references

Lusail Doha, Qatar capacity: 60,000 m³/d

la Morée, France capacity: 60,000 m³/d

Bréhat, France capacity: 300 m³/d

Conception & Realisation: O. Barbier (SUEZ) - Photos credits: SUEZ