

Greendaf™

(RICTOR process)

TERTIARY PHOSPHATE REMOVAL
BY RAPID FLOTATION



URBAN
WASTEWATER

REMOVE PHOSPHATES FROM WASTEWATER
WITH A REDUCED CONSUMPTION OF REAGENTS

- ⊕ **PERFORMANCE AND SAVINGS**
Remarkably efficient phosphorus removal,
with little need for reagents

suez
environnement

Degrémont

INNOVATION

A MORE COMPACT CLARIFICATION SOLUTION PROVIDING HIGHER FLOTATION SPEEDS, AND REDUCED FLOCCULATION TIME.

KEY FIGURE:

Reduce phosphorous levels by up to

0.3 mg per liter.

Greendaf™ TECHNOLOGY...

Greendaf™ is designed for the purification of urban wastewater containing phosphorous and is particularly well suited for installations that must conform to strict discharge regulations.

A patented, perforated floor: The ferric chloride and the raw water to be treated are introduced into the coagulation zone to neutralize the phosphate present in the water. Once their loads are neutralized, the colloidal particles agglomerate by a hydraulic pulsation system (to form floc particles in the flocculation zone).

These solid particles, agglomerated within the water, are then piped into a flotation zone diffused with air microbubbles. The flocs cling to the air bubbles and float to the surface to form a thick sludge blanket which is then removed using overflow troughs.

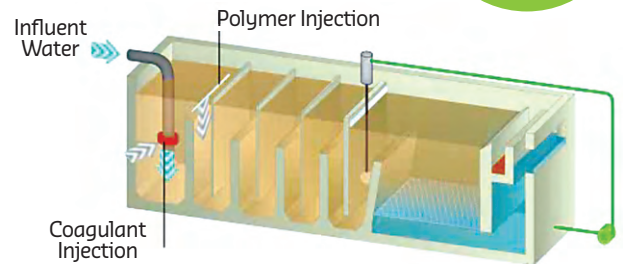
The patented perforated floor creates a bubble blanket, which allows the system to function at higher flotation velocities.

AMONG OUR REFERENCES:

- Hudson, USA (2 x 725 m³/h flow rate)
- Evreux, 27, FRANCE (3 x 590 m³/h flow rate)
- Roux-Canal, BELGIUM (2 x 720 m³/h flow rate)

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**URBAN
WASTEWATER**



Greendaf™ belongs to the rapid air-flotation systems range and is specially designed for the clarification of cleared water. This process is for facilities with a maximum flow rate of 10,000 m³/h.

...WHAT IT CAN DO FOR YOU

- + **PERFORMANCE AND RESPECT FOR THE ENVIRONMENT:**
 - **Greendaf™** obtains a particularly low level (< 0,3 mg/L) of phosphorous discharge.
 - Compact installation
- + **ECONOMY:**
 - Functions with little need for reagents
- + **SIMPLICITY OF USE AND MAINTENANCE:**
 - Instant start-up and shutdown without special precautions
 - Visibility of treatment phases
 - Limited mechanical equipment



Degremont

183, avenue du 18 juin 1940 - 92508 Rueil-Malmaison Cedex
Tel : +33 (0) 1 46 25 60 00 - Fax : +33 (0) 1 42 04 16 99

www.degremont.com

