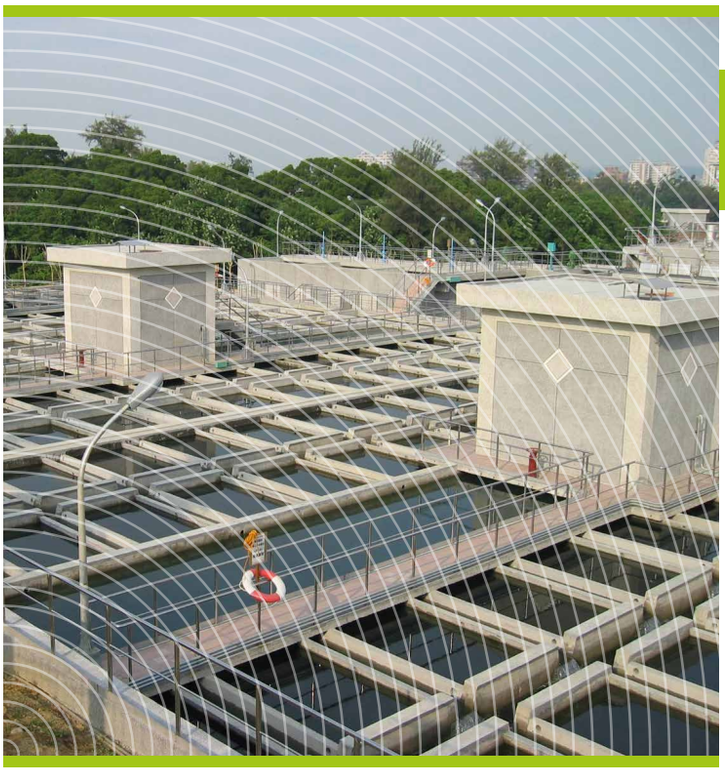
Pulsatube™

lamellar settling with pulsed sludge blanket

drinking water



safeguard the quality of your clarified water

savings

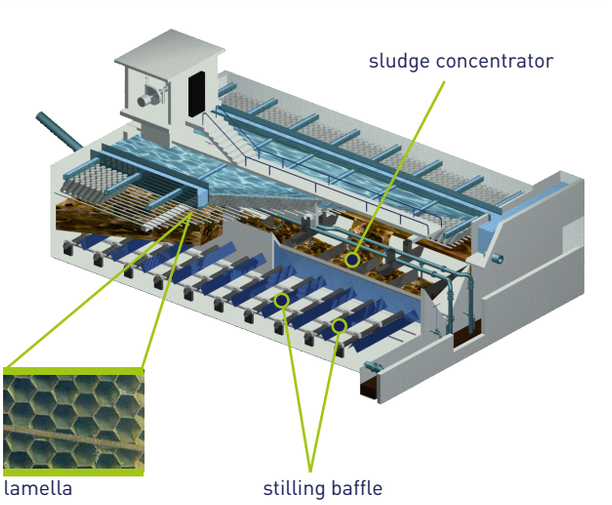
reduced energy consumption and reagent use

flexibility and performance

able to adapt to variations in raw water quality and flow, safe settling rate

a clarifier combining the benefits of sludge contact clarification, sludge blanket pulsation, and lamellar settling

The Pulsatube™ (degrémont® technology) can perform coagulation, flocculation and clarification in a single unit. Its unique design means that the quality of clarified water is perfect, regardless of variations in quality and flow of the raw water.



key figure

energy consumption:

5 Wh/m³ of treated water

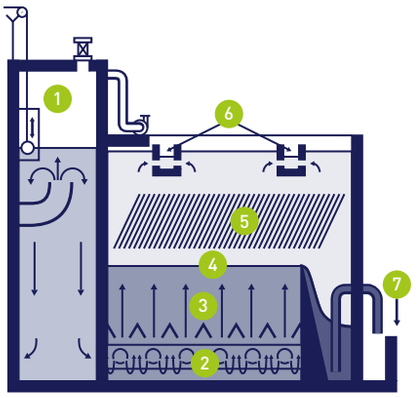
suez

Pulsatube™ technology . . .

Pulsatube™ is a lamellar clarifier with a pulsed sludge blanket: the sludge formed by flocculation is an expanding mass (sludge blanket), the homogeneity of which is maintained by pulse cycles, applied by a vacuum chamber.

The water that has coagulated beforehand flows regularly and evenly from the bottom to top through this sludge blanket and returns clarified to the top of the settling tank.

The lamellar modules in the clean water area above the sludge blanket also optimize the settling rate.



1. vacuum chamber
2. perforated raw water distribution pipes
3. stilling baffle
4. upper level of the sludge blanket
5. lamellar modules
6. clarified water outlet
7. sludge draw-off

. . . what it can do for you

environmentally-friendly

- simple overlay of the flocculation (in the sludge blanket) and clarification areas in a single unit
- minimal energy consumption (5 kWh/m³)
- very low or even zero polymer dosage
- reduced water leakage

flexibility

- very adaptable to raw water quality and flow variations
- can operate without pulsing
- option to inject powdered active carbon to treat organic mater

safeguard

- safeguard of the treatment quality due to the use of lamellar modules
- homogenous distribution of raw water on the tank surface

easy to operate and maintain

- a single motor per unit
- no submerged electro-mechanical equipment
- accessibility

among our references

Chenchin Lake, Taiwan
capacity: 450,000 m³/d

Boudaou, Alger, Algeria
capacity: 540,000 m³/d

Selangor, Malaysia
capacity: 475,000 m³/d

Rennes, Villejean, France
capacity: 90,000 m³/d

Angers, France
capacity: 160,000 m³/d

Avranches, France
capacity: 9,000 m³/d

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