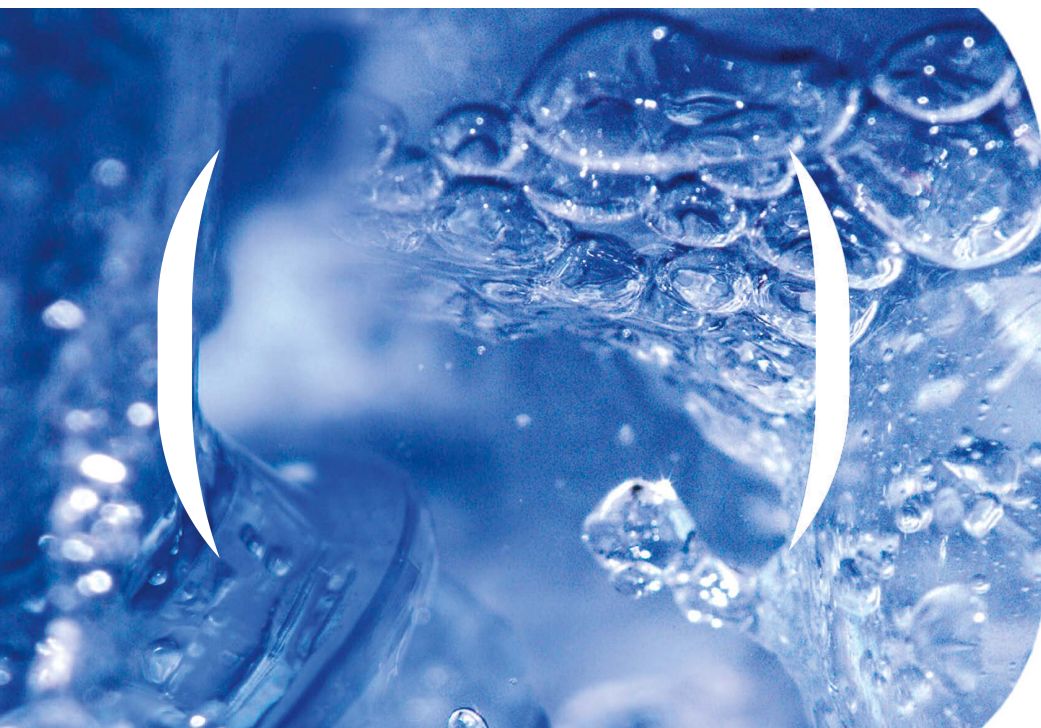


AQUA-RM[®]

Biological treatment by membrane bioreactor

AQUA-RM[®] is a patented wastewater treatment process that combines biological treatment by activated sludge and filtration by submerged flat sheet membranes.



Thanks to a partnership developed with Kubota, Stereau offers a method called **AQUA-RM[®]**. This process, exclusive to France, is based on flat sheet membrane technology and is specially designed for wastewater.

Suitable for urban and industrial wastewater, this process allows the highest purification yields with compact installations.

AQUA-RM[®] technology stands out from other membrane bioreactors thanks to its robustness. The ease of operation of this method is linked to the use of flat sheet membrane and the very low pressures involved.

FIELDS OF APPLICATION

- urban and industrial wastewater treatment,
- high-level treatment requirements : sensitive areas, water reuse, bathing quality, etc,
- space, foundation or earthwork constraints,
- environmental constraints: odors, noise, etc,
- plant rehabilitation (extension of capacity and quality by reusing existing facilities).

AQUA-RM[®]

Flat sheet membrane technology

By replacing clarification with submerged membranes, the membrane bioreactor enables:

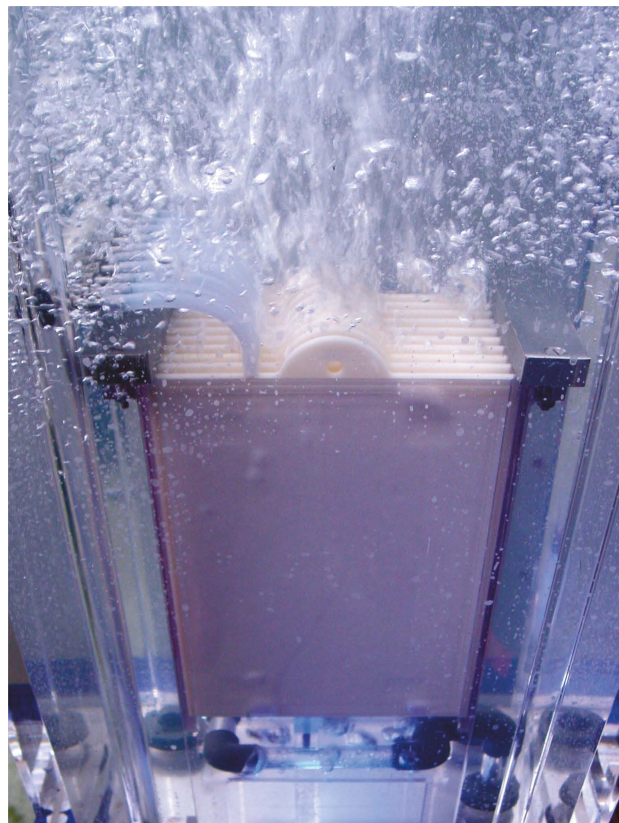
- space-saving, and easy integration of structures,
- the rehabilitation of existing plants,
- the production of crystal-clear treated water. The exceptional quality of this water is due to the retention of bacteria and pathogenic micro-organisms to match bathing standard,
- the reuse of treated water to preserve water resources,
- superior process control regardless of sludge settleability,
- increasing tank concentration and biomass residence time (sludge age) for better elimination of refractory organic matter.

In addition of these advantages, **AQUA-RM[®]** offers unique features allowing simplicity and low maintenance.

- Simplicity of continuous operation without backwashing.
- Very few in-situ cleaning of membranes required (2 times a year). Handling is not necessary.
- Low pressure for maintenance and energy-saving gravity operation.
- Adaptability and tolerance to load and concentration variations. This process accepts high concentrations in the basins.
- The sturdiness is provided by a flat sheet membrane specially designed for wastewater.

FEATURES

- Flat sheet membrane: Kubota- exclusive contract
- Unit surface of the flat sheet: 0,8 m² - 1,45 m²
- Chassis: single or double deck
- Number of flat sheet: 25/50/100/200
- Usage concentration(g/l): 12 (8 à 20)



Exceptional durability and sturdiness.



Rehabilitation of a former thickener in AQUA-RM[®]

REFERENCES

More than 40 references in France and abroad, including Grimaud, Vence, Fos-sur-Mer, Meyreuil, La Grande Motte, Quiberon, Chambéry, Carnac, Crozon, Kerran, Vathia Gonia (Cyprus)...



11 chemin de Bretagne
92130 Issy-les-Moulineaux
France
Tél. 33 1 30 60 84 00
602 011 918 RCS Nanterre