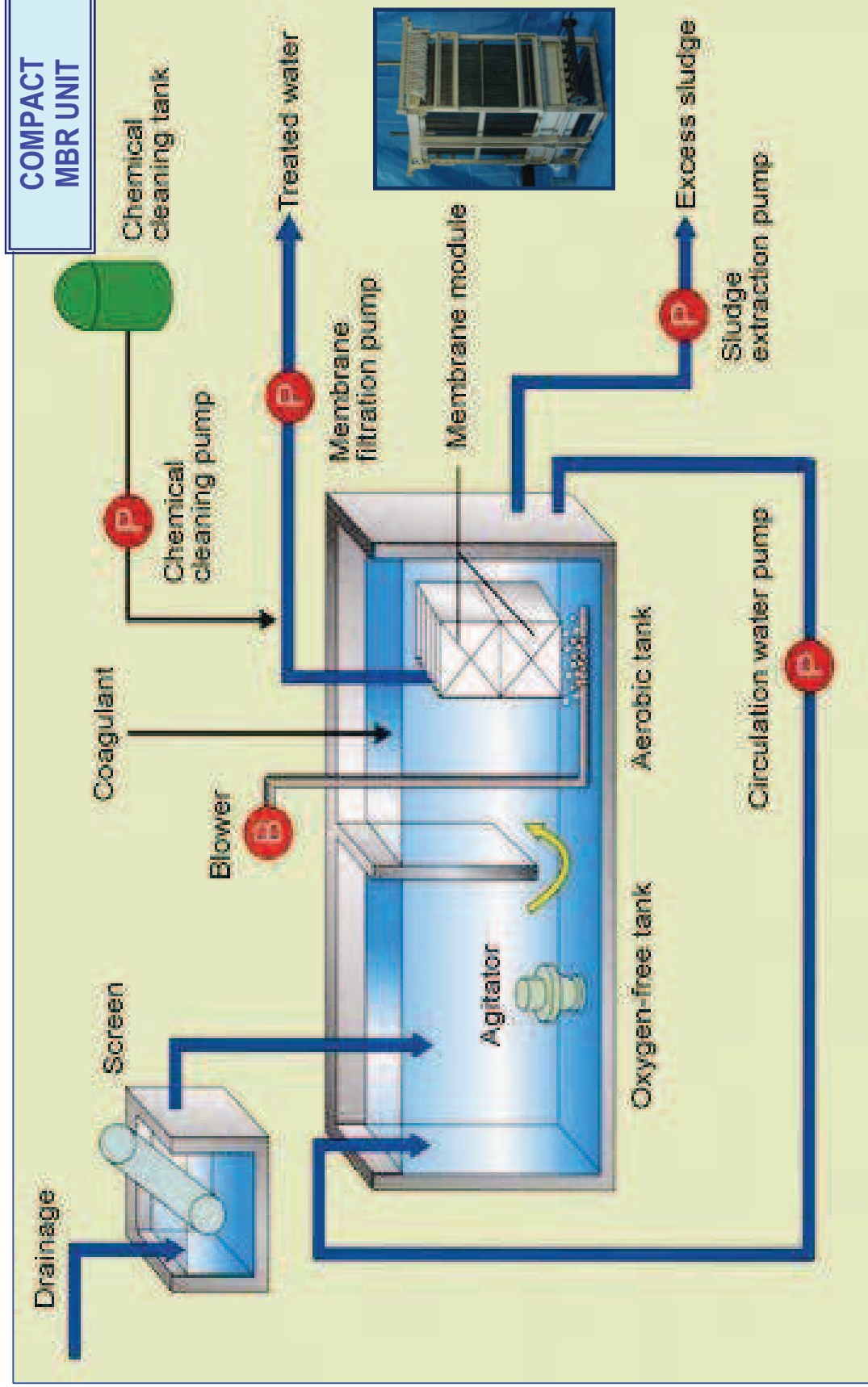


# Flow Diagram

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# Plant System Image of MBR

## Fine screen

Solids in raw water are removed by an automatic screen to extend membrane life.

## Membrane unit

Activated sludge is filtered using a flat sheet membrane and the extracted treated sewage effluent is pumped to tanks prior to disposal. The membrane is produced in Japan by Hitachi using patented manufacturing techniques.

## Aeration tank

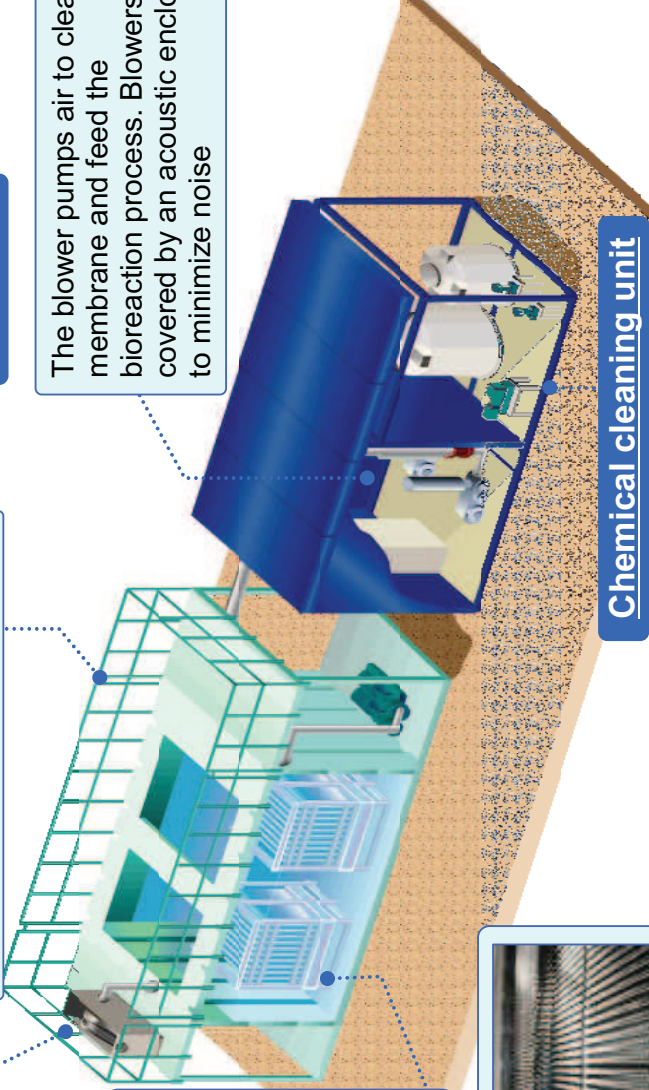
The membrane is immersed in activated sludge in the aeration tank. Microorganisms in the activated sludge digest and remove organic material.

## Blower

The blower pumps air to clean the membrane and feed the bioreaction process. Blowers are covered by an acoustic enclosure to minimize noise.

## Chemical cleaning unit

A dosing chemical (Sodium hypochlorite) is used for membrane cleaning. Dosing frequency is approx once per 2 to 3 months, depending on the condition of the raw water and the throughput volume.



## **Application (Plant User)**

- **Building Facility**
- **Resort area / Hotel**
- **Golf course / Hotel**
- **Shopping Mall**
- **Workers accommodation**
- **Small community**
- **New Development (Residence Area)**
- **Hotel**
- **Shipping**
- **Factory area**
- **School: Education institution**
- **Military Camp**
- **Emergency Use**
- **Public Water treatment Facility**



# Compact MBR Unit

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## Compact Type Membrane Unit

- Capacity: more than 50 m<sup>3</sup> /day (0.07MDG – )
- Substance treated: BOD,SS,Bacillus, Coliform, Bacteria

