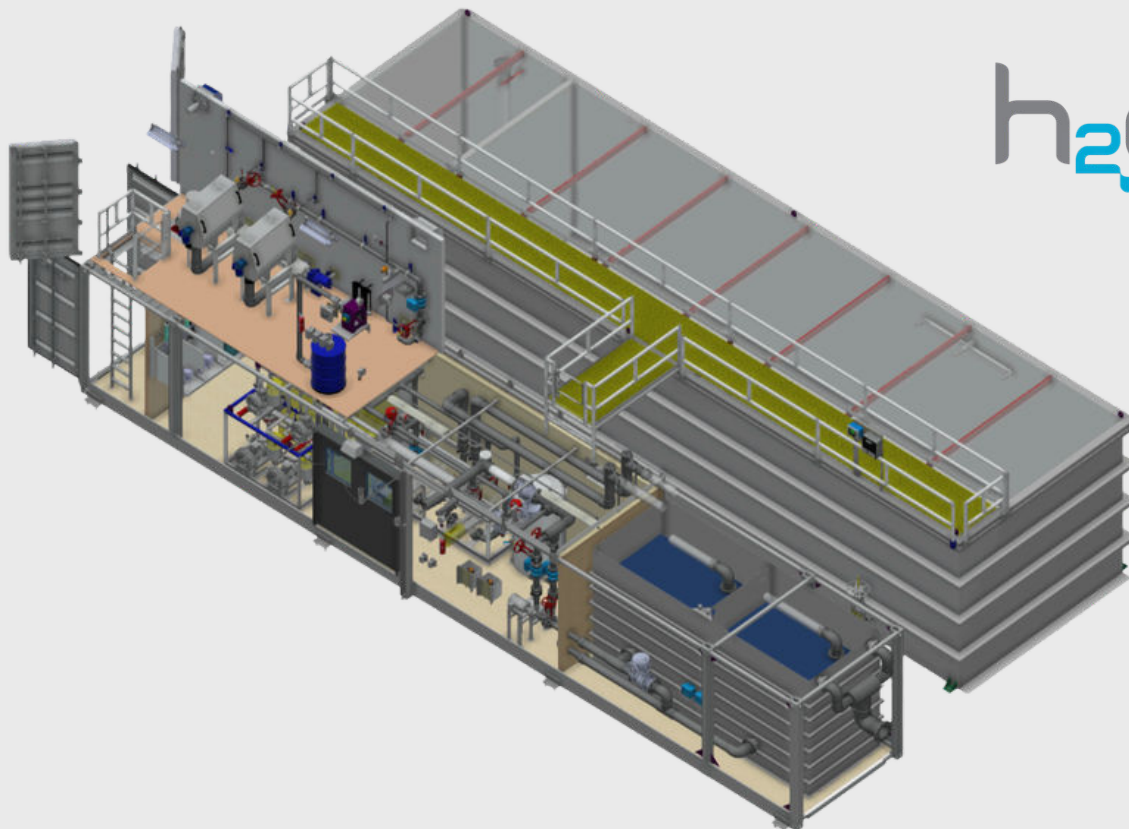


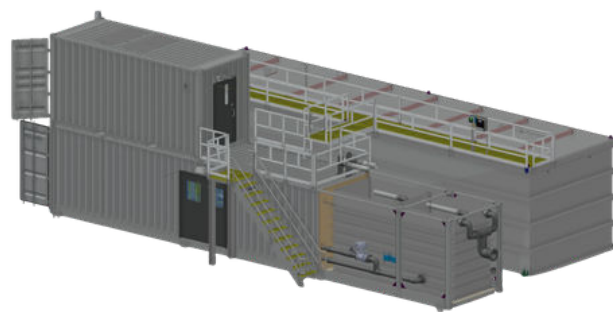


**PRE-ENGINEERED
FAST INSTALLATION
FULL-FEATURED PLANT**

FLEXBOX

Containerized Membrane Bioreactor System

The FLEXBOX MBR™ incorporates a complete wastewater treatment plant in a modular, factory-tested package designed for rapid deployment and simplified site construction. The base package includes a bioreactor tank for biological treatment, and an equipment and membrane container.



Key Benefits

- Factory assembled and tested
- Reduced civil construction requirements
- Compact footprint: 53' x 8.5' for equipment and membrane container, 50' x 14' for bioreactor
- Remote monitoring and automation ready
- Adaptable to operation in harsh climates
- High effluent quality suitable for stringent discharge requirements

Applications

- Municipal wastewater
- Industrial wastewater
- Remote communities
- Work camps and resorts
- Emergency response and plant upgrades

Overall Design

- Screening -> Bioreactor -> Two (2) MBR trains
- 50,000 - 150,000 gpd (189-568 m³/d) ADF
- Pre-fab & minimal install
- Rent or purchase



Membrane and Equipment Container

- Operator areas have HVAC and unclassified air space
- Headworks and bioreactor space is segregated for area classification and odor control
- HMI, PLC, and power panels fully tested

Container Specifications

- Bioreactor:
 - Anoxic and aerobic biological treatment
- Membrane and equipment container:
 - 20' ISO container housing screens mounted on top of 53' high cube ISO container for equipment and membrane tank
- Wide-ranging design flow: 50,000 gpd to 50,000 gpd influent (250-500 homes)
- Hollow-fiber membrane technology, total surface area up to 23,500 ft²
- Coagulation dosing system, pH conditioning system, acid membrane cleans, base membrane cleans
- Redundancy
 - Process blowers, fine screens, membrane trains, RAS pumps
- Weights:
 - Bioreactor – Shipping: 46,000 lb, Operating: 476,000 lb
 - Container – Shipping: 44,000 lb, Operating: 124,000 lb
- Customization offered to meet upstream/downstream process needs and target specific permit criteria

Intellogx™ Enabled

- Remote access to all HMI functions
- 24/7 monitoring and alarm call-out
- Store, visualize, and analyze operational data in graphs and dashboards to enable quick decisions and optimize performance
- Automated report generation on Key Performance Indicators