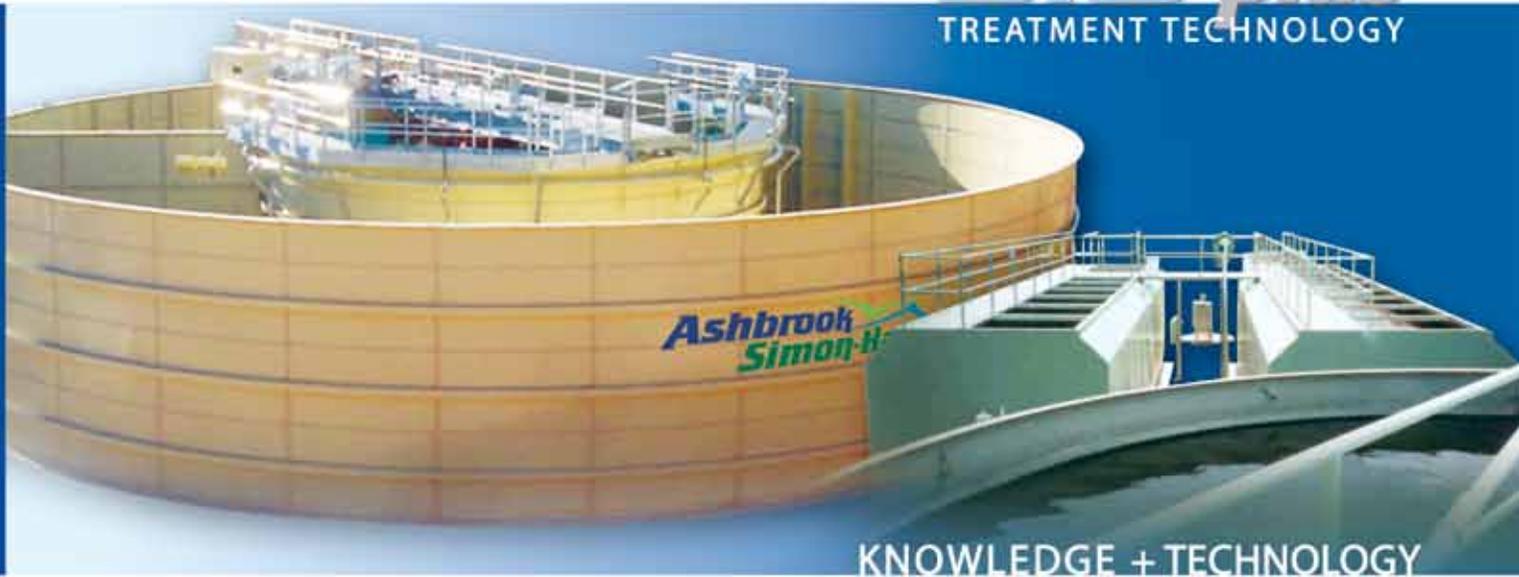


TREATMENT SYSTEMS

BIO·plus
TREATMENT TECHNOLOGY



KNOWLEDGE + TECHNOLOGY

**THE STANDARD FOR
PROCESS PERFORMANCE,
RELIABILITY, LOW MAINTENANCE
AND TREATMENT EFFICIENCIES**

BIO-PLUS

Ashbrook
Simon-Hartley[®]

WATER AND WASTEWATER TREATMENT SOLUTIONS

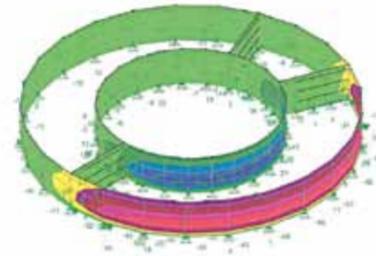
THE INDUSTRY'S MOST EFFECTIVE WASTEWATER TREATMENT SYSTEMS

- **Rectangular Package Plants Up To 200,000 GPD**
- **Circular Plants From 150,000 GPD To 3.0 MGD**
- **Advanced Treatment Options**
- **Rapid Construction Timeline**
- **Engineered For Long-Term Durability**
- **Complete and Fully Equipped**

By combining leading process engineering and technological knowledge with decades of hands-on experience, Ashbrook Simon-Hartley has consistently lead the water and wastewater industry in the development of cost-effective treatment solutions.

With the development of the BIO-plus™ line of field-erected wastewater treatment plants—in 1998—Ashbrook Simon-Hartley added much improved process design, which often results in smaller tanks and overall better process. Previous designs were typically little more than extended aeration.

Today, hundreds of BIO-plus™ wastewater treatment plants have been installed in a variety



Finite Element Analysis is used to ensure stable design based on hydrostatic, seismic and wind loads specific to your installation.

of configurations, ranging from rectangular package plants up to 200,000 GPD to circular bolted-panel systems up to 3.0 MGD in a single train.

Complete Process Flexibility

BIO-plus™ wastewater treatment plants can be provided with the activated sludge processes that best meets the treatment

objectives—whether it's conventional pollutant removal or advanced treatment for Biological Nutrient Removal (BNR) which can be accomplished in either a continuous flow process or in a Sequencing Batch Reactor (SBR)—whatever is best for the application. All BIO-plus™ units are available with advanced treatment capabilities including: Nitrification, Denitrification and Phosphorus removal.

In addition, BIO-plus™ plants can be provided with tertiary filtration as well as UV disinfection. As an option, Ashbrook Simon-Hartley provides an Integrated Membrane Activated Sludge (IMAS™) process that produces membrane quality effluent at a price point more comparable to conventional activated sludge facilities.

Specific Process Results Are GUARANTEED!

Available With Bolted Tank Advantages

Factory finished, field-assembled, bolted-panel tanks provide the advantage of factory precision in their manufacture and coating as well as the cost saving advantages of rapid field-assembly.

Erection of bolted-panel tanks requires 50 to 70 percent less time than welded tankage. Synchronized jacks are used to erect bolted-panel tanks from the ground up. Workers stay on the ground eliminating hot work and factory coated tank panels minimize on-site chemical use. Bolted tank construction means safe construction.

Each of the panels are thermoset epoxy coated steel, prepared using best-practices manufacturing in a controlled environment—problems of over-spray and other on-site risks are eliminated. The thermoset epoxy coating process also coats the bolt holes, which dramatically reduces the potential for corrosion.



Installation Process Is Simple and Fast



The foundation is prepared and rebar is installed based on foundation plans provided by Ashbrook Simon-Hartley. A working supervisor is also provided to assist with embedded item placement, and to witness the pour.



Synchronized jacks are used to erect bolted-panel tanks from the ground up. Workers stay on the ground and perform no hot work which makes tank construction safer compared to field-welded methods.



Mechanical components are installed, including blowers, pumps, aeration units, clarifiers, SBR components (when appropriate), grating and plumbing.



The completed plant is filled and commissioned.

Circular Plants

Ashbrook Simon-Hartley circular field-erected treatment plants are available for flows from 150,000 GPD to 3.0 MGD in a single train. Ashbrook Simon-Hartley provides calculations and plans for the foundation. Each wastewater treatment plant is engineered to support specific process volumes. Finite Element Analysis (FEA) is used to ensure a stable design based on the hydrostatic, seismic and wind loads of the application. Stiffener and bracing systems are optimized. Detailed structural and foundation designs are P.E. stamped for bolted steel plants.



Scope includes: blowers; Wilfley Weber aeration systems; process and clarification tanks; grating, handrails & staircase; pumps and plumbing.

Rectangular Package Plants

Ashbrook Simon-Hartley package plants are available for flows up to 200,000 GPD. These plants may be provided for above ground or buried installation, depending on your location and needs.



Ashbrook Simon-Hartley continues to lead the industry in the supply of these custom designed packaged treatment plants.



BIO-plus™ rectangular and circular treatment plants may be buried in most situations.

DISINFECTION **TREATMENT PLANTS**
FILTRATION **DEWATERING** **CLASS A BIOSOLIDS**
MEMBRANE TECHNOLOGIES **CLARIFIERS** **FLOW CONTROL**
AERATION **MUNICIPAL INDUSTRIAL**

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