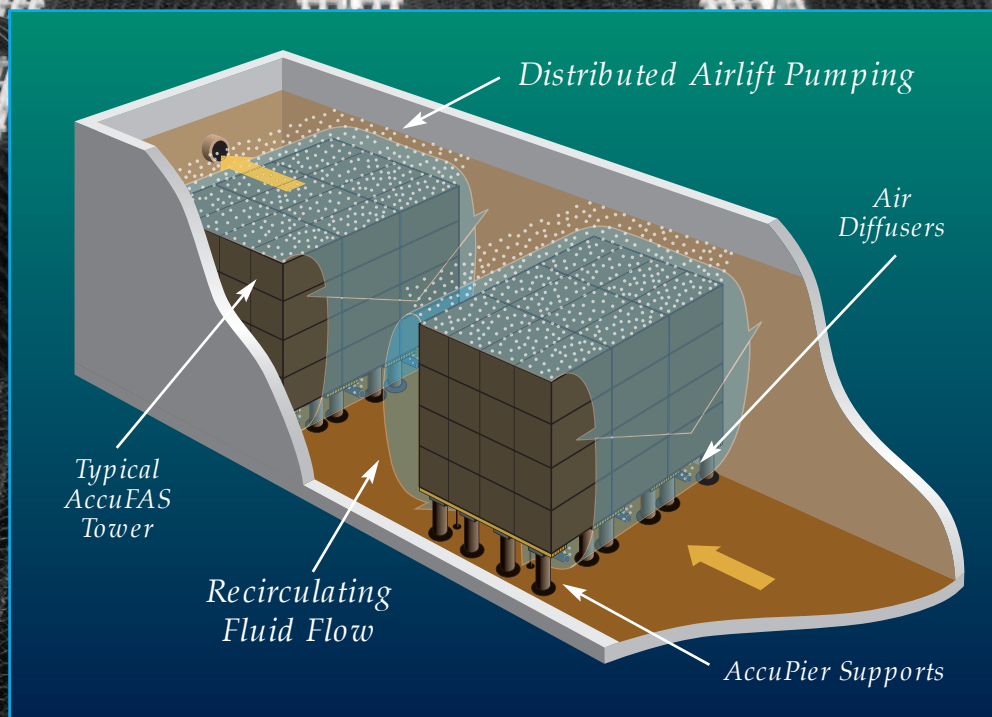


# ACCUFAS™ SUBMERGED FIXED-FILM TECHNOLOGY



## AccuFAS™ Systems

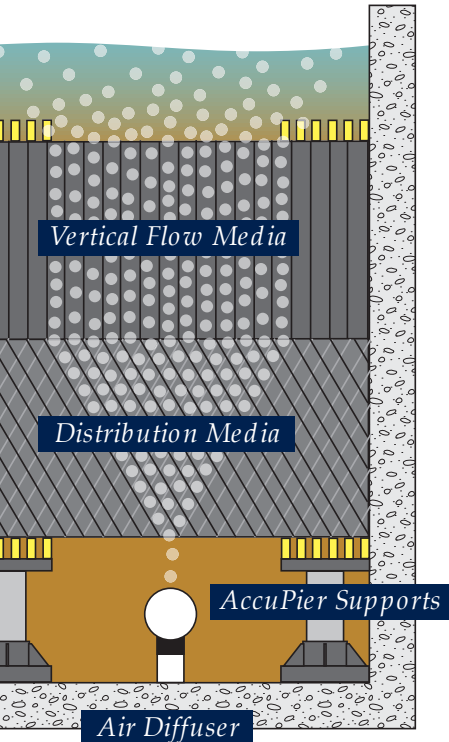
Add a fixed-growth surface for bio-mass with our structured-sheet media to add proven BOD, ammonia, and total nitrogen-removal capacity.

**BRENTWOOD**  
INDUSTRIES

**Brentwood's AccuFAS System** is constructed of PVC structured-sheet media and provides biological primary or secondary treatment capacity in a simple yet robust solution for your site-specific process goals.

## Brentwood Engineered

Brentwood's design team draws on over 25 years of fixed-growth process experience to guide the design and application of our wastewater treatment products. AccuFAS systems are a direct result of our extensive research, development, testing, and evaluation programs:



- Innovative combination of Distribution Media (DM) and Vertical Flow (VF) Media developed by Brentwood eliminates short circuiting and provides even flow and air distribution for optimum contact between the waste stream and biomass.
- Backed by extensive pilot studies and verified continually at full-scale installations, Brentwood's process design models accurately predict treatment performance.
- Project-specific, fully-integrated physical system layout design (media, supports, diffusers) by Brentwood engineers complement overall project design.

## Simple, Compact, Robust

- Simple operation without hydraulic limitation or in-basin moving parts
- Combination of DM and VF media offers a high, effective specific surface area in a compact package
- Brentwood's proven structured-sheet media and AccuPier support and retention systems ensure a 20-year-plus service life

## Lower Costs & Maintenance

- Eliminates the potential for washout of suspended media systems and the need for submerged screening
- Lowers the treatment capital cost (based on pounds of ammonia removed per day) compared to moving bed systems
- Requires no additional operational costs over those of conventional activated sludge systems



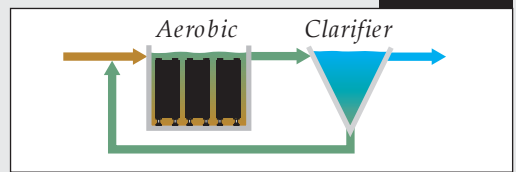
**Brentwood Industries, Inc.** 610 Morgantown Road, Reading, PA 19611, Phone 610-236-1100, Fax 610-736-1280, Email [wwsales@brentw.com](mailto:wwsales@brentw.com)

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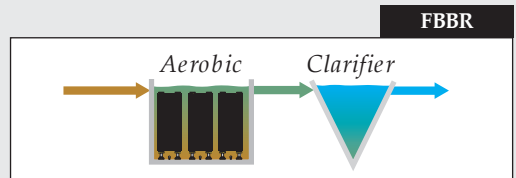
Website [www.BrentwoodProcess.com](http://www.BrentwoodProcess.com)

## Applications



**Upgrade Existing Activated Sludge Plants with Integrated Fixed-Film Activated Sludge (IFAS):**

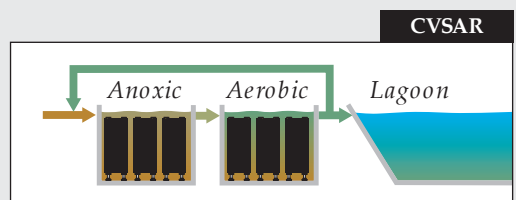
- Improve year-round nitrification and overall process stability
- Increase treatment capacity without constructing additional tanks
- Upgrade to denitrification by the MLE process in existing aeration tanks



## Optimize New Facilities

with a Fixed-Bed Bio-Reactor Process (FBBR) for BOD or BOD and Ammonia removal:

- Fixed biofilm eliminates all recycle sludge pumping and control requirements.
- Requires less tankage, process piping, and equipment compared with alternative treatment processes
- Simple process control and stable operation



## Add Nutrient Removal to Lagoons

with IFAS or Brentwood's patented Critical Velocity Submerged Anoxic Reactor (CVSAR):

- Pre-lagoon CVSAR process (above) for BOD and Ammonia removal with denitrification - *no clarifier required*
- Post-lagoon FBBR for polishing with nitrification
- Simple, compact, easy-to-operate, and cost-effective upgrade for all lagoon systems