

# Sales Sheet: BioConversion Solutions

## Advanced Fluidized Composting (AFC) Technology

### Overview

The BCS patented AFC technology represents state-of-the-art process stream treatment. A proprietary combination of thermophilic biological treatment with a solids separation and chemical treatment step enables AFC to treat highly concentrated organic waste and/or sludge streams with only a fraction of residual sludge generated in other aerobic and anaerobic biological processes.

AFC is a unique process technology for treating high-strength organic waste streams and sludges. Using AFC results in a highly efficient rate of organic destruction with little or no generation of residual sludges commonly associated with most biological processes. The AFC process consists of thermophilic aerobic or anaerobic biological treatment, solids separation, and chemical treatment of residual solids and excess biomass. The technology combines the advantages of low biomass yields associated with anaerobic processes along with rapid biodegradation kinetics and stable process control of aerobic systems.



### Features

- Able to withstand high COD loadings (5,000 to 60,000+ mg/L)
- Systems are usually self-heating with sustained operating temperatures from 120 to 160 °F
- Effective with high TDS streams
- High rates of organic destruction

### Benefits

- Cost-effective and minimizes or eliminates sludge disposal costs
- Excellent system stability
- Low sludge production
- Existing treatment systems can be easily retrofitted with AFC
- Reduces long-term liability issues

### Applications

- High-strength waste treatment
- Sludge treatment and reduction
- Waste minimization
- Solid waste treatment
- Bioremediation
- Source treatment

