

ODI 2PAD™ System

EPA CERTIFIED

Two-Phase Anaerobic Digestion for Class A Biosolids

This unique two-phase anaerobic digestion system produces Class A Biosolids, which can be land-applied without restrictions in accordance with the EPA's 40 CFR Part 503 regulations. Our innovative process separates the acid- and methane-forming digestion phases (acidogenesis and methanogenesis), increasing the efficiency of both and, combined with the high temperature, destroys the pathogens to below detectable limits. A two-year pilot study confirmed the effectiveness of the ODI 2PAD™ System to meet EPA requirements for Class A Biosolids. In fact, the ODI 2PAD™ System has been granted "PFRP Conditional National Equivalency" by the Environmental Protection Agency, as recommended by the Pathogen Equivalency Committee.

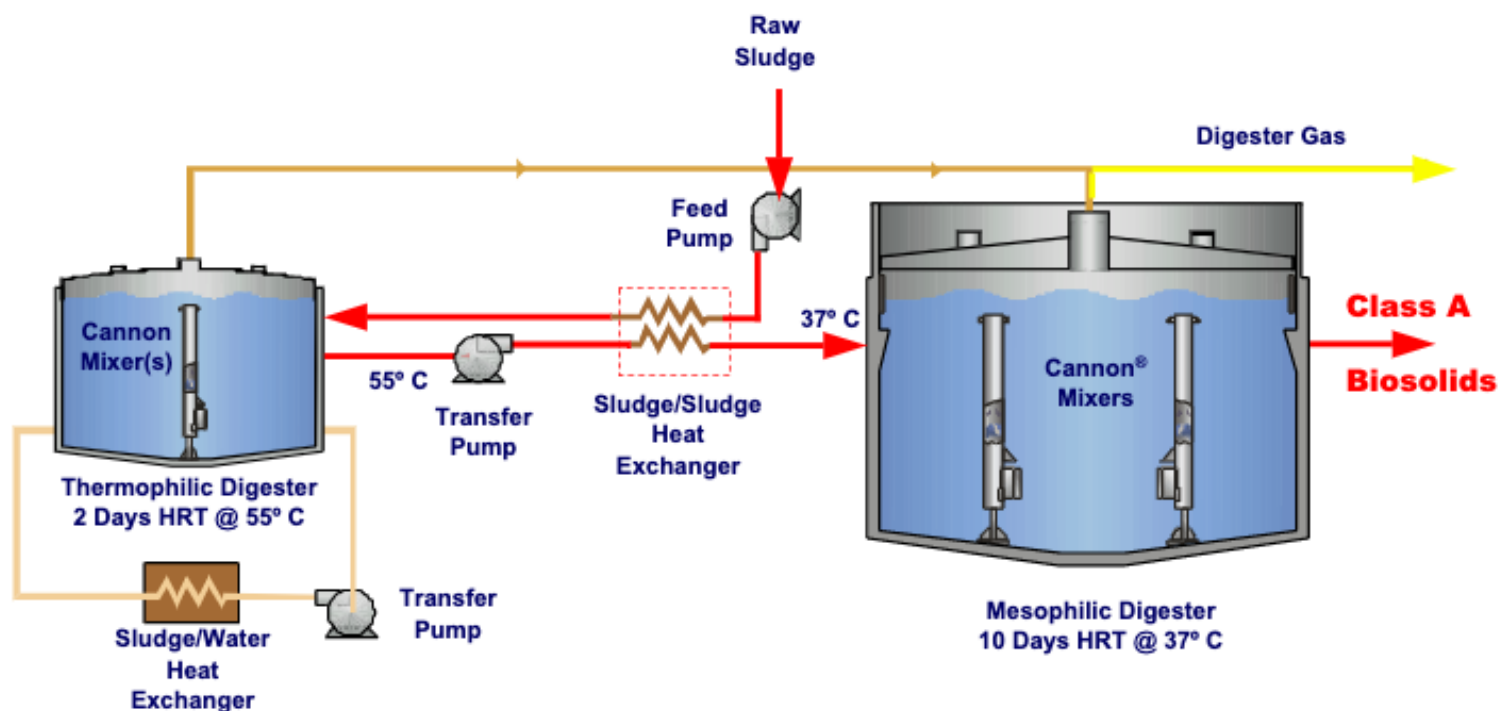
The ODI 2PAD™ System means real benefits for your facility:

- Produces Class A Biosolids, which are bio-safe and can be land-applied without restrictions.
- Separating the acid- and methane-forming phases makes both phases more efficient and more effective.
- Total hydraulic retention time is greatly reduced, which means smaller digesters can be used and associated costs are lower.
- Aeration is not required, so energy costs are low.
- Foaming is virtually eliminated because nocardia bacteria, the typical cause of digester foaming, is destroyed in the thermophilic stage.

Whether you're retrofitting an existing plant or building a new one, the ODI 2PAD™ System is ready to take your sludge to a new class—Class A Biosolids.

**OFFICIALLY CERTIFIED BY THE EPA
TO PRODUCE CLASS A BIOSOLIDS**





Innovative, Effective Process

Raw sludge is heated as it passes through a sludge/sludge heat exchanger and then enters a thermophilic digester where it is held for two days and reaches a temperature of 55°C, maximizing pathogen destruction. The discharge goes through the sludge/sludge heat exchanger to cool the sludge, recover the heat, and partially heat the raw sludge. The cooled sludge is pumped into a mesophilic digester for ten days, where volatile solids are destroyed and gas produced. The result is Class A Biosolids, which can be land-applied without restrictions.



Cannon® Mixers

ODI 2PAD™ System

Equipment List

Infilco Degremont provides the following equipment as part of the ODI 2PAD™ System:

- Cannon® Mixing System for each digester tank (complete mixing is critical for Class A approval)
- Heating equipment, including boiler; sludge/sludge heat exchanger; and other heat exchangers required
- Gas safety and handling equipment
- Transfer pumps
- Digester covers
- PLC control system



For more information, please contact

Infilco Degremont, Inc.

804.756.7600 or visit our website at www.infilcodegremont.com

