

Induced Blanket Reactor

The Andigen digester or Induced Blanket Reactor (IBR) is a continuous upflow anaerobic digester capable of treating animal manures and food waste. The digester employs a septum and a rotating apparatus to trap methanogenic bacteria and overcome plugging. The septums, submerged in tanks 10 m high x 4 m wide (33 ft high x 13 ft wide), induce a blanket or bed of living bacteria in the lower portion of the tank. Waste passing through the blanket is converted into methane by the bacteria. The tanks are above ground in a 38°C (100.4°F) enclosure ensuring optimal microbial processing of the waste. This adaptation of upflow anaerobic digestion for use with animal manures and food processing waste results in minimum improvements of five times faster digestion or digester volume sizes of one-fifth compared to other technologies. Andigen systems are modular multi-tank designs, facilitating easy expansion and isolation of tanks for scheduled maintenance.

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