

# Aerobic TECHNOLOGIES

Aerobic digestion is the breakdown of organic waste in the presence of oxygen using heat, water and enzymes. The aerobic digester will digest all food waste within a 24 hour period, discharging grey water into the main drainage system. There is no residue or solid waste, the chamber never needs to be cleaned out, there is no smell and no noise.

The digester is capable of digesting fruit, vegetables, meat and fish at a rate of up to 5,000kg per day, depending on the capacity of the machine. ATL manufactures digesters with different capacities. The waste is added to the digester through the loading door and is mixed with inoculant impregnated chips. The contents are automatically agitated to aerate the waste in order to maximise the aerobic digestion process. Water is sprayed at intervals into the digestion chamber to keep the waste moist and aid the enzyme reaction.

**The digester will accept any of the following food products:**

- Fruit
- Vegetables
- Nuts, without shells
- Meat
- Whole fish
- Crustaceans, including shells
- Molluscs, without shells
- Eggs
- Cheese
- Bread
- Rice and noodles
- Cooked food



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“ The machines meet our objectives to reduce and control food waste through the ATL proprietary data monitoring and reporting system, whilst meeting our environmental targets.

We believe that these targets are important goals for hospitals and healthcare organisations.

ATL's aerobic digesters offer a cost effective, sustainable solution for hospitals and commercial kitchens.

We are the first NHS Trust to adopt this technology after conducting a detailed review of our waste systems, and in our experience this technology provides valuable benefits for hospitals and healthcare organisations that provide catering facilities for staff, patients and visitors. ”

SALLY YATES, FACILITIES AND ESTATES MANAGER,  
DIANA, PRINCESS OF WALES NHS HOSPITAL, GRIMSBY, UK



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## Aerobic technologies portal functionality

The Aerobic Technologies portal gathers statistical data from connected digester units at each location (internet connection must be available locally at the site of the digester). The portal communicates bespoke statistical data across multiple sites in real time, with waste streams broken down into timelines, location, quantities, etc.

The data is shown in periods of daily, weekly and monthly records.

ATL can customise the portal to specific hospital group requirements, showing statistics from each ward or cafeteria.

The design can be integrated into the hospital's sustainability and environmental reporting systems, presented in standalone tabular, graphical and numerical formats. Subject to further analysis and evaluation, ATL can populate existing hospital group reporting systems with the appropriate data for further in house manipulation and display options by the groups' own existing solutions.

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