

**Product Name :**  
Anaerobic Digester

**Product Code :**  
NLAB-TECHNICALAB22002

**Description :**

Anaerobic Digester

**Technical Specification :**

This product is used for sewage treatment and bio-gas generation. It is the process in which animal or food waste used for the production of biogas and biofertilizer. One popular type of this process is Anaerobic contact process. In this type. By using the recycling process, a set of reactors is created in a series. This reactor allows the process to flow up from the bottom and after that it separates the waste into 3 zones. First zone is Biogas zone. In this zone the entire gas is collected. Anaerobic means 'in the absence of oxygen'. There are various types of Anaerobic Digester:

- Anaerobic activated sludge process
- Anaerobic clarigester
- Anaerobic contact process
- Anaerobic expanded-bed reactor
- Anaerobic filter
- Anaerobic fluidised bed
- Anaerobic lagoon
- Anaerobic MBRs
- Anaerobic migrating blanket reactor
- Batch system anaerobic digester
- Continuous stirred-tank reactor (CSTR)
- Expanded granular sludge bed digestion (EGSB)
- Hybrid reactor
- Imhoff tank
- Internal circulation reactor (IC)
- One-stage anaerobic digester
- Plug-flow anaerobic digester
- Submerged media anaerobic reactor
- Sintex Digester
- Two-stage anaerobic digester
- Upflow anaerobic sludge blanket digestion (UASB)
- Upflow and down-flow anaerobic attached growth

Types of Anaerobic Digester:

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#### Technical Specifications

Reactors: Two, identical -nominal capacity: 5 litres packed volume: 4 litres 150mm dia x 250mm high Reactor  
25mm diameter Bio-balls packing: Temperature for each reactor: control: 200W heating jacket with PID control  
from a temperature sensor positioned inside the reactor, set point within range ambient to 55°C, the jacket is  
thermostatically protected by a cut-out set at 85°C Feed pumps: Two, identical peristaltic pumps -variable speed  
using 10 turn potentiometer to 4rpm supplied with three tube diameters, 1.6, 3.2 and 4.0mm flow rates from 0.2  
to 7 l/day Gas collection Two, identical -vessels: linear scale, 0-5 litre capacity

## Naugralabequipments

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