

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: - Anaerobic activated sludge process - Anaerobic clarigester	

Anaerobic contact process
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Upflow and down-flow anaerobic attached growth

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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