

BIOGAS SYSTEM TRAINER

Model Number : GOTT-BST-01



DESCRIPTION

By using this trainer, trainees can learn about biogas systems as a form of alternative energy. Biogas is the mixture of gases produced by the breakdown of organic matter in the absence of oxygen (anaerobically), primarily consisting of methane and carbon dioxide. Biogas can be produced from raw materials such as agricultural waste, manure, municipal waste, plant material, sewage, green waste or food waste. Biogas is a renewable energy source. Through this lab, students will learn about biogas systems, how they operate, how to set one up, how they are controlled, storage and distribution .

FEATURES

The trainer consists of a biogas digester, stainless steel sink, feeding pump, circulating pump, hollow sunlight sheet, outlet and metal supporting frame. Biogas digesters receive organic matter, which decompose in a digestion chamber. The digestion chamber is fully submerged in water, making it an anaerobic (oxygen-free) environment. The anaerobic environment allows for microorganisms to break down the organic material, and convert it into biogas.

TECHINICAL SPECIFICATIONS

- Stainless Steel Sink
- Feeding Pump
- Circulation Pump
- Hollow Sunlight Sheet
- Membrane digester
- Outlet Gas
- Volume of digester : 1.7 m³
- Volume of gas storage: 1 m³
- Space of green house: 3.4 m³
- Biogas production : 2 m³/day
- Biogas for cooking : 4 hour
- Dimensions(cm) ; 195(H)x 156(L)x120(W)

EXPERIMENT TOPICS

- Familiarisation with operating principles of a biogas system
- Biogas digester setup
- Achieving a stable operating state
- Temperature influence of biogas generation
- Substrate influence of biogas generation
- Volumetric loading influence of biogas generation

Manuals :

- (1) All manuals are written in English.
- (2) Model Answer
- (3) Teaching Manuals

General Terms :

- (1) Accessories will be provided where applicable.
- (2) Manual & Training will be provided where applicable.
- (3) Design & specifications are subject to change without notice.
- (4) We reserve the right to discontinue the manufacturing of any product.

Warranty :

2 Years

ORDERING INFORMATION :

ITEM	MODEL NUMBER	CODE
BIOGAS SYSTEM TRAINER	GOTT-BST-01	445-010

*Proposed design only, subject to changes without any notice.