

# PUXIN Medium size 15m<sup>3</sup> Portable Assembly Biogas Plant



## 1. PRODUCT DISCRIPTION

This is a Do It Yourself (DIY) Kit medium size BIOGAS SYSTEM for convenient transport and easy assembly. It comes in boxes. It is surface mounted; there is no need for digging and/or heavy construction. It can be assembled by client itself according to the manual we provide without any training.

It is a high efficient biogas system with hollow sunlight sheet green house for solar heating and insulation, circulating pump for mixing and heat exchanger for heating.

It is designed for livestock farm, Slaughter house and food processing plant to treat their organic wastes and waste water; for restaurants, hotels, and campus and residence community to treat their organic wastes (food waste, sewage sludge and animal manure etc.)



The product is mainly composed of a green house made with hollow sunlight sheet and mental supporting frame, and a membrane digester with a gas storage bag combined in one. The membrane of the digester has the characteristics of anti-aging, acid and alkali resistant and rodent resistance.

When required, a feeding pump can be added;  
A circulating pump for raw material feeding and anaerobic digestate mixing can be added;

A grinder for food waste shredding can be added, and heat exchanger that uses hot water to heat can be added.





## 2. TECHNICAL DATA

Waste capacity:

Raw material	(Kg/d)
Food waste	180
Pig manure	320
Cow manure	450
Chicken manure	200
Human manure	250

Output: Biogas and organic liquid fertilizer

Dimensions: diameter: 3 m, height: 2.5m

Greenhouse volume: 15m<sup>3</sup>

Fermentation capacity: 12.7m<sup>3</sup>

Gas storage: 2.5m<sup>3</sup>