

Puxin Underground Type Domestic Sewage Treatment System



The system is used to process sewage water and food waste as well as small amount of animal waste and is mainly composed of a Puxin stainless steel anaerobic and aerobic reactor, a reclaimed water pool, and the biogas utilization system.

The Puxin stainless steel anaerobic and aerobic reactor is 2.38m³ in volume and is made with stainless steel.

The biogas utilization system is composed of a small dehydrator and desulfurizer, a gas storage bag, a gas pump, a pressure gauge, gas pipelines and biogas appliances (stove, rice cooker, lamp and generator etc).

The system has the following advantages:

1. No greenhouse gas escape and no smell (all the gases produced are collected and burned)
2. Can get clean liquid fertilizer that can be used for gardening.
3. Biogas is collected and used.
4. Easy and quick to install.

Benefits:

- (1) It replaces the septic tank; being completely sealed it eradicates the septic tank's leakage smell, mosquitoes, flies and harmful germs.
- (2) It digests all family's organic waste and kitchen waste which will be instantly stored into the airtight anaerobic digester. It avoids environmental pollution (bad smell, mosquitoes and flies as well as harmful bacteria growth) in the storage and transport process of the kitchen garbage. It also profitably solves the house's organic wastes problem.
- (3) After anaerobic digestion, black water's COD [Chemical Oxygen Demand] decreases by more than 80%, the TSS [Total Suspended Solids] decreases by more than 75%, the pathogenic bacteria and other harmful organisms are killed by more

Shenzhen PUXIN Technology Co. Ltd

www.puxintech.com

Email: info1@puxintech.com

Skype: pxbiogas002

Mobile: 86-13425127057



than 90%.

(4) Through full anaerobic digestion, sewage waste and kitchen garbage become odorless, tasteless, turned into high quality green water and organic fertilizer that can be used for gardening. It reduces the community effluents' treatment costs.

(5) Biogas generated from anaerobic digestion is collected, purified and can advantageously replace part of the household fuel.



Video link for reference:

<https://youtu.be/wWTmVACIde4>

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