

Modular Plug&Play anaerobe digester kit

The Bio2E digester is a modular Plug&Play anaerobe reactor kit for conversion of biomass into ready-to-use biogas and biofertilizer.

Differently from other digesters to low capacity biogas plants, the Bio2E digester is designed for use with a large variety of organic soft waste from agriculture, including e.g.

rice straw, water hyacinths, animal manure, organic waste from plantations or food processing facilities. The digester design eliminates the need for shredding materials prior to loading into the digester, increasing yield and reducing investment in shredder equipment, labour and operation costs. Designed, developed in Scandinavia and Vietnam, and validated by the global community, the unique reactor design features easy installation, elimination of expensive agitation and the "Essential" kit configuration package includes pressure relief valve, dehumificator and H₂S filter for biogas, supporting direct use of gas for e.g. electricity production.

In addition to the essential biogas kit, Bio2E offers a range of optional accessories including remote performance monitoring systems, electric generator, combined heat and power system (CHP), reactor heating system and energy storage.



TECHNICAL DATA

Type	Tubular, horizontal anaerobe digester,
Nominal capacity	2.5m ³ /day biogas
Digester volume	8m ³
L x W x H	10000mm x 1000mm x 1000 mm
Thickness, digester liner	0.9mm
Port size, inlet & outlet	ø250mm
Port size, gas	1" female, ISO228

FILTERS & VALVES

Pressure relief valve, gas	0.05 bar
Dehumidifier, gas	20"x 2.5", silica gel
H ₂ S filter	20"x 2.5", iron filter material

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