

The invention relates to alternative energy sources, in particular to biogas production plants, and can be used in various fields of agriculture and the processing industry for producing biogas.

The plant, according to the invention, comprises an external cylindrical heat-insulated reservoir-reactor (1), with a conical bottom and a biomass charging port (7), inside which is mounted an internal cylindrical reservoir-reactor (1) with a conical through bottom, equipped with biomass charging ports (4, 7) and a fermented biomass discharge branch pipe (13), connected to a collection vessel (14). In the internal cylindrical reservoir-reactor (1), on a vertical shaft, connected to a gear motor (19), are fixed helical (3) and rod (6) stirrers, and in its upper part is mounted a biogas discharge pipe (10) with a siphon (9), equipped with a drinking water supply conduit (8) and a discharge conduit (15) for water, enriched with CO₂, and connected through a branch pipe (11) to a membrane gasholder (12). In the upper part of the internal cylindrical reservoir-reactor (1) is placed a treated liquid discharge conduit (16), which communicates with a granular floating filter (17), connected to the discharge conduit (15) and to a microalgae cultivation pool (18).

Claims: 1

Fig.: 1

