

The invention relates to an installation for biochemical treatment of sewage waters and may be used at the enterprises for processing of agricultural products.

The anaerobic bioreactor for sewage water treatment includes a closed body with charge for microflora fixation, divided into two chambers by means of an inclined partition with the possibility of overflow of the treated water from one chamber into another, water supply and discharge pipe-lines, equipped with hydraulic back-pressure valves, and a pipe with pressure-reducing valve for biogas removal. In the capacity of charge for microflora fixation it is used a woven cloth of polyethylene. The surface of the woven cloth is ferritized by 3...5-fold treatment in solution of iron (III) salts and iron (II) in the ratio of 2:1 and subsequent hydrothermal treatment with 5...10% NaOH solution at the temperature of 70...90°C. For the creation of a constant magnetic field there are used spherical sintered particles of barium hexaferrite with a diameter of 5...8 mm, magnetized up to saturation, fixed to the inferior part of the charge.

In the zone of hydraulic back-pressure valves of the supply and discharge pipe-lines there are installed pH transducers, connected to the measurement systems, the impeller, the actuator and the pressure-reducing valve, with the possibility of controlling the charge pulsating activation according to the initial pH difference and that of the treated water and of regulating the hydrostatic pressure of the accumulated biogas.

The result of the invention consists in increasing the sewage water treatment degree.

Claims: 3

Fig.: 1