

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

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

In the zone of hydraulic valves of the supply and discharge pipe-lines there are installed pH transducers, connected to the signal amplifiers, the controller, the actuator and the pressure-reducing valve with the possibility of controlling the process for charge pulsed activation according to the pH difference of the initial and treated water and regulating the hydrostatic pressure of the accumulated biogas in the first chamber of the bioreactor.

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

Claims: 3

Fig.: 1