

The invention relates to the equipment for sewage treatment.

Summary of the invention consists in that the installation for sewage treatment includes a body and a dividing partition, placed at an angle with the vertical axis of the body, which divides the body into two chambers, filled up with charge, supply and discharge pipe-lines, separating and bearing grids, a chamber for accumulation and discharge of sewage gas, a water-lock, a sediment discharge pipe-line.

The closed chamber is provided with cover, above the charge there is additionally placed a system of electrode units with diaphragm. In the capacity of charge in the closed chamber are used shellfish valves of fractional sizes of 5...50 mm. Inside the system of electrode units with diaphragm there are installed anodes, and outside the diaphragm - perforated cathodes, connected to the constant-current source. In the capacity of anodes it is used graphite or titanium, coated with a layer of ruthenium oxide, and of cathodes – stainless steel.

In the open chamber it is placed a floating inhomogeneous filtering charge, above which there are placed collectors of compressed air and sewage, treated in the system of electrode units with diaphragm, as well as a volumetric frame grid, made of polymeric sheets, a scraper with collecting chamber and a pipe for removal of flotation concentrate, placed in the upper part of the chamber. The distributor of the sewage pipe-line is provided with a flow-meter for separation of 1,7...2,0% of the total flux of sewage into the system of electrode units with diaphragm.

The result of the invention consists in the intensification of the sewage biochemical treatment process and in obtaining sewage gas with increased caloric capacity.