

The invention relates to a bioreactor and may be used for treatment of sewage waters with high content of nitrous pollutants. The bioreactor includes a body with branches for sewage water inlet and for treated water outlet, pipe-lines for mud removal, aeration, filtration and mixing systems. The body is consecutively divided by partitions into chambers of biochemical oxidation 1, nitrification 2 and denitrification 3, each of them being provided with a level gauge and a filtration system, consisting of a screen filter with bellows in the lower part, communicating with a pipe-line for treated water overflow from chamber 1 into chamber 2, and from chamber 2 into 3. The pipe-line in the chamber 3 is joined with the branch for treated water outlet, which is provided with a siphon and a valve. The upper part of each filter is joined by means of a rod with an electromagnetic vibrator. The vibrators and the level gauges are connected to the control desk. The filters are made in the form of a multilayer screen of stainless steel and/or porous stainless steel with the pore diameter of 0,05...0,16 mm. The result of the invention consists in increasing the degree of sewage water treatment from organic pollutants.

Claims: 2
 Fig.: 1

