

THE MAGNETIC WATER TREATMENT

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There are many intensification destinations for water purification. The most common is the use of effective technological schemes, modernization and development of new methods. Their implementation in practice is not always possible due to technical, economic and other reasons.

Physical methods play an important role in solving this problem now. They are based on the effects of physical fields on water (magnetic, electric, ultrasonic, etc.). These methods differ from other methods by universality, efficiency and effectiveness.

Magnetic water treatment technology is effectively used for intensification methods of water purification. There are many compelling examples of successful application of magnetic treatment in various industries. But it has not been widely used, because the mechanism of magnetic treatment is not determined.

This treatment consists of imposing a magnetic field on a moving stream of fluid. Magnetic induction vector is directed perpendicular to the velocity vector of the flow of water. Changes in physico-chemical characteristics of water systems depend on tension, gradient and configuration of the magnetic field, velocity of water, its composition, etc...

Magnetic treatment of water is not applicable as a separate node clearance, and is used in combination with other methods to increase their effectiveness. Determination of the mechanism of magnetic treatment is one of the urgent tasks and promising area of research in the development of environmentally friendly technologies. Besides, the simplicity of this treatment and its effectiveness make it one of the most promising methods for water treatment.

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