

The invention relates to an electromagnetic water softening device and may be used in different industrial and household water heating systems.

The device consists of a power transformer (1) connected to a rectifier (2), the positive output of which is connected to an adjustable current stabilizer (3), a polarity circuit (4), comprising four electronic switches (5), (6), (7), (8), connected according to the bridge circuit, where the outputs of the first and the second switch, as well as of the third and the fourth one are connected between them in pairs, across a diagonal of the bridge there is connected a charge (9) in the form of a coil onto the water supply pipe-line, and another diagonal of the bridge is connected to the negative output of the rectifier (2) by means of a current sensor (14), at the same time the inputs of the first and the fourth switch, as well as of the second and the third one are connected to the outputs of a pulse generator (10), comprising a forming cascade (11), connected to a driving generator (12), connected to a frequency transducer (13).

Moreover, the current sensor (14) is connected into the metering circuit and comprises a signal control system (15), consisting of an oscillograph (16) and a threshold luminescent indicator (17).

The result of the invention consists in the water softening at the expense of providing the transformation of salt crystals with calcined structure into an aragonitic structure, which is crystallized in the volume of the treated water and may be removed.

Claims: 2

Fig.: 1

