

Abstract

**ELECTRODEIONIZATION SYSTEM AND CONTROL METHOD FOR
ELECTRODEIONIZATION SYSTEM**

5 The present invention provides an electrodeionization system (1) comprising a plurality of electrodeionization devices (1A) installed in parallel and also provides a control method therefor. The electrodeionization system (1) comprises: a supply water flow rate varying means that varies
10 a flow rate of supply water to the plurality of electrodeionization devices (1A); a concentrated water flow rate adjusting means that adjusts, for each electrodeionization device (1A), a flow rate of concentrated water (W4) discharged from each of the plurality of
15 electrodeionization devices (1A); and a concentrated water flow rate maintaining means that maintains the flow rate of concentrated water (W4) discharged from each of the plurality of electrodeionization devices (1A) at a certain level or higher. The concentrated water flow rate maintaining means
20 is installed only in a main flow path (23) in which a plurality of sub-flow paths (22) are integrated and a main path (25) in which a plurality of sub-paths (24) are integrated. Desalted water (W2) produced in each of the plurality of electrodeionization devices (1A) flows through
25 each of the plurality of sub-flow paths (22) while concentrated water (W4) discharged from each of the plurality of electrodeionization devices (1A) flows through each of the plurality of sub-paths (24). According to the present invention, it is possible to provide an electrodeionization
30 system that reduces the production cost while suppressing the occurrence of scale due to a decrease in the flow rate of supply water to each electrodeionization device and a control method therefor.

35 Figure 2