

ABSTRACT

Provided are a treatment apparatus and treatment method for hardness component-containing water that effect reverse osmosis membrane treatment after the hardness component-containing water has been softened, the apparatus and method being able to reduce the amount of hardness components in the concentrate that flows out in the latter stage. The apparatus 1 for treating hardness component-containing water is provided with: a reaction tank 12 for adding an alkaline agent and/or a carbonic acid compound to hardness component-containing water in order to make the hardness components insoluble; a solid-liquid separation device 16 for performing solid-liquid separation of the insoluble product obtained; a reverse osmosis membrane treatment device 20 for treating the solid-liquid separation liquid obtained with a reverse osmosis membrane to obtain a concentrate and a permeate; and a return pipe 38 for returning at least a portion of the concentrate obtained to the earlier stage of the solid-liquid separation means.

[FIG. 1]