

Abstract

Provided is an ultrapure water production apparatus capable of stably supplying ultrapure water having good quality over a long period of time. The ultrapure water production apparatus comprises a primary pure water production apparatus and a secondary pure water production apparatus. The primary pure water production apparatus comprises a first ultraviolet oxidation device, and the secondary pure water production apparatus comprises a second ultraviolet oxidation device and a hydrogen peroxide removal device provided downstream of the second ultraviolet oxidation device. The hydrogen peroxide removal device comprises an ion-exchange material supporting a platinum-group metal catalyst. The ultraviolet irradiation dose of the second ultraviolet oxidation device is controlled such that a difference ΔTOC ($\text{TOC}_{\text{SUP}} - \text{TOC}_{\text{TRE}}$) between a TOC value (TOC_{SUP}) of feed water to be supplied to the second ultraviolet oxidation device and a TOC value (TOC_{TRE}) of water treated by the second ultraviolet oxidation device is 1 ppb or less.