

Water Separation System

ABSTRACT

A water separation system comprising facilities with simple structures, and having an improved water separation efficiency, and being capable of operating with a desired reaction time assigned to the system. The water separation system for separating water from a product solution produced by a chemical reaction of reactants comprises a mixing unit 3 for being supplied with and mixing the reactants, a chemical reaction processing unit 4 that is provided below the mixing unit 3 and where the mixed reactants undergo a chemical reaction, a water separating unit 6 connected below the chemical reaction processing unit 4 for separating water produced in the chemical reaction processing unit 4, and a controlling unit 12 for controlling a chemical reaction time in the chemical reaction processing unit 4. The controlling unit 12 shortens the chemical reaction time in the chemical reaction processing unit 4, when the solution discharged from the chemical reaction processing unit 4 contains a large amount of the product. On the other hand, the controlling unit 12 prolongs the chemical reaction time in the unit 4 when the solution discharged from the unit 4 contains a small amount of the product.