

ABSTRACT

Disclosed are: a water producing system which is provided with a semi-permeable membrane treatment process A100 for subjecting treatment target water A1 to semi-permeable membrane treatment to produce membrane permeate A3 and concentrate A, a semi-permeable membrane treatment process B200 which is equipped with a treatment target water B branching means for branching treatment target water B2 into two or more, and subjects the treatment target water B to the semi-permeable membrane treatment to produce a membrane B5 and concentrate B6, and a semi-permeable membrane treatment process C300 which is equipped with a first water mixing means for mixing one of the treatment target water B branched by the treatment target water B branching means with at least part of the concentrate A produced in a semi-permeable membrane treatment step A, and subjects the mixed water to the semi-permeable membrane treatment to produce membrane permeate C7 and concentrate C8, thereby producing fresh water from a plurality of kinds of raw water which differ in osmotic pressure utilizing composite water treatment technologies in which a plurality of membrane units using a semi-permeable membrane are disposed, and the water producing system can ensure a necessary water production quantity, and cope with a size increase of the system while responding to change in a water intake quantity of raw water; and an operation method therefor.