WHAT IS CLAIMED IS:

[Claim 1]

A method for operating a desalting device having a first desalting device and a plurality of second desalting devices arranged in parallel, comprising:

a normal operation step, in which a water to be treated is supplied to a first desalting device and separated into a first concentrated water and a first desalted water, and the first concentrated water is supplied to a second desalting device and separated into a second concentrated water and a second desalted water; and

a dilute water passing operation step, in which a dilute water having a lower concentration than the first concentrated water is passed through the second desalting device before a corrected permeated water amount of the second desalting device is reduced,

while the first desalting device and one part of the plurality of second desalting devices are performing the normal operation step, another part of the plurality of second desalting devices perform the dilute water passing operation step,

in the dilute water passing operation step, a part of the first desalted water is separately obtained and passed through the another part of the plurality of second desalting devices as the dilute water, and a remaining part of the first desalted water is taken out.

[Claim 2]

The method for operating the desalting device according to claim 1, wherein the plurality of second desalting devices are two second desalting devices arranged in parallel,

in the method, the following patterns are alternately performed:

a first water passing pattern, while a normal operation step is performed in one of the two second desalting devices, the dilute water passing operation step is performed by other of the two second desalting devices, and

a second water passing pattern, while a normal operation step is performed in the other of the

two second desalting devices, the dilute water passing operation step is performed by the one of the two second desalting devices.

[Claim 3]

A method for operating a desalting device, which is a method for operating a desalting device having a first desalting device and two second desalting devices, alternately performing:

a first water passing pattern, in which a water to be treated is supplied to the first desalting device and separated into a first concentrated water and a first desalted water, the first concentrated water is supplied to one of the two second desalting devices and separated into a second concentrated water and a second desalted water, and a dilute water having a lower concentration than the first concentrated water is passed through other of the two second desalting devices; and

a second water passing pattern, in which a water to be treated is supplied to the first desalting device and separated into a first concentrated water and a first desalted water, the first concentrated water is supplied to other of the two second desalting devices and separated into a second concentrated water and a second desalted water, and a dilute water having a lower concentration than the first concentrated water is passed through one of the two second desalting devices,

in the first water passing pattern, a part of the first desalted water is separately obtained and passed through the other of the two second desalting devices as the dilute water, and a remaining part of the first desalted water is taken out,

in the second water passing pattern, a part of the first desalted water is separately obtained and passed through the one of the two second desalting devices as the dilute water, and a remaining part of the first desalted water is taken out,

wherein the first water passing pattern and the second water passing pattern are switched at a frequency of once every 30 to 180 minutes.

[Claim 4]

The method for operating the desalting device according to any one of claims 1 to 3, wherein

a scale inhibitor is added to a dilute water.

[Claim 5]

The method for operating the desalting device according to any one of claims 1 to 4, wherein the desalting device is a reverse osmosis membrane device.

[Claim 6]

The method for operating the desalting device according to any one of claims 1 to 5, wherein the dilute water has a water temperature of 25°C or higher.

[Claim 7]

The method for operating the desalting device according to any one of claims 1 to 6, wherein the first concentrated water has a water temperature of 20°C or higher, a pH of <6.0, a calcium ion concentration of 50 to 500 mg/L, an aluminum ion concentration of 0.01 to 0.5 mg/L, an iron ion concentration of 0.01 to 0.25 mg/L, and a silica concentration of 500 to 1500 mg/L.