

## ABSTRACT

A water treatment unit (3) is usable in a water treatment apparatus that performs water treatment using a reverse osmosis membrane. The water treatment unit (3) includes: a casing (30); a separation membrane (31) mounted in the casing (30) and bent into a pleated shape; a reinforcing member attached to the separation membrane (31) and having a function of reinforcing the separation membrane; a rotating mechanism (42) rotating the separation membrane (31); and a cleaning device (41) capable of cleaning the separation membrane (31). The separation membrane (31) has a plurality of island-like portions and a plurality of fiber-like portions extending from the island-like portions and having a width smaller than that of the island-like portions, and an area of the fiber-like portions at a membrane surface is set to be larger than that of the island-like portions. The water treatment apparatus includes: a first water treatment unit capable of performing pretreatment of water to be treated and having the aforementioned configuration; and a second water treatment unit capable of performing main treatment of the water to be treated.