

{Abstract}

Provided is a water treatment device that suppresses the degradation of electrodes in a capacitive de-ionization treatment section and is capable of maintaining high water treatment capability. The water treatment device (1) includes an activated carbon treatment section (10) that receives an inflow of water having a total organic carbon concentration of 100 mg/l or less and adsorbs and removes organic matters contained in the water; and, on the downstream side of the activated carbon treatment section (10), a capacitive de-ionization treatment section (100) including a pair of electrodes (101, 102) to which voltages having polarities opposite to each other are applied, a flow path (105), and ion exchange membranes (104, 105). Ions contained in the water are adsorbed to the electrodes (101, 102) with voltages applied thereto, and voltages reverse to the voltages at the time of ions adsorption are applied to the electrodes (101, 102) to release the ions from the electrodes (101, 102).

FIG. 2

