

BIOFILM FILTER DEVICE, DESALINATION SYSTEM, AND BIOFILM FILTER
DEVICE CLEANING METHOD

ABSTRACT

A biofilm filter device (20) in which a biofilm formed on a filter medium layer (22)
5 removes impurities mixed in a target liquid flowing from an upstream side so as to
discharge a filtered liquid from a downstream side. The biofilm filter device (20)
includes a wash water supply unit (51) that supplies wash water from the downstream
side of the filter medium layer (22), and a control unit (52) that controls a flow speed of
the wash water supplied by the wash water supply unit (51). After the control unit (52)
10 supplies the wash water at a first flow speed which fluidizes only a prescribed range layer
on the upstream side of the filter medium layer (22), the control unit (52) supplies the
wash water at a second flow speed which does not fluidize the whole filter medium layer
(22).

15 Fig. 1.