

METHOD FOR OPERATING MEMBRANE DISTILLATION APPARATUS

ABSTRACT

A liquid-being-processed inside a feed-water tank 1 is supplied to hollow fibers 11 of a membrane module 10 by a feed-water pump 2, a pipe 3, a heat exchanger 4, and a pipe 5 and returns to the feed-water tank 1. A secondary side 17 is depressurized by a pressure reduction device 25. Water of the liquid-being-processed flowing through the hollow fibers 11 evaporates and is suctioned and discharged from the secondary side 17 to a pipe 20. When a precipitate is deposited on the secondary side 17, a valve 31 is opened and the pressure reduction device 25 is stopped to create a positive pressure on the secondary side 17. Thus, condensate water is generated on the secondary side and the precipitate is removed by dissolution.

Figure 1