

DISTILLATION APPARATUS

ABSTRACT

A distillation apparatus is provided that allows a heat exchanger made of highly heat-conductive metal to be used as a heat exchanger even when raw water contains a volatile acidic gas. The raw water is sent from a feed-water tank 1 to a heat exchanger 4 through a pump 2 and a pipe 3 and heated in the heat exchanger 4, and is then sent to a membrane module 10 to be subjected to a membrane distillation process. Steam generated on a secondary side of the membrane module 10 is suctioned by an aspirator 50. The aspirator 50 is supplied with an absorbing liquid inside an absorbing liquid tank 90 through a pump 51 and a cooling heat exchanger 70. The heat exchanger 70 is made of metal, such as titanium.

Figure 1