

Abstract

There is provided a compact filtration device capable of efficiently separate and remove suspension components adhered to membrane surfaces or to between membranes by allowing bubbling action by means of bubbles from an air diffusion tube to effectively affect the entire hollow fiber membrane, and capable of disposing inside hollow fiber membranes in high density.

In a filtration device 11 for performing solid-liquid separation by allowing a liquid to be treated 12 containing suspension components to permeate a membrane module 14 for immersion type suction filtration or external pressure filtration, said membrane module 14 is formed from bundled membranes 16 in which a multiplicity of hollow fiber membranes 15 with their axes being in the vertical direction are contacted closely with each other at the upper and lower ends thereof, and a diffuser tube 21 is threaded into between said multiplicity of hollow fiber membranes 15 for insertion at the lower part of the bundled membrane 16.

Fig. 1