ABSTRACT

The present invention relates to a production method of a (meth)acrylic acid or an ester thereof, including a step of, under a reduced pressure created by a pressure reducing device, forming a distillation gas from a process liquid containing a (meth)acrylic acid or an ester thereof and allowing the distillation gas to turn into a condensate through a vertical multi-tube heat exchanger, wherein the vertical multi-tube heat exchanger has an atomizing nozzle capable of spraying water drops having the Sauter mean diameter of 570 to 1,500 μm and the average gas flow velocity ~~rate~~ of uncondensed distillation gas flowing into a relay space from an extraction chamber is 15.0 m/s or less.

FIG. 2