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 of uncondensed distillation gas flowing into a relay space from an extraction chamber is 15.0 m/s or less.

FIG. 2