

Method for obtaining a gaseous phase from a liquid medium and device for carrying out the same

5 Abstract:

A modular micro-reactor with parallel micro-channels on fluid guide plates for chemical reactions, but not for evaporation purposes, is known.

10 A modular falling-film evaporator was developed, comprising a stack of alternate gap-type evaporation chambers and plate-type evaporation modules with a set of parallel micro-channels, the evaporation chambers being open at the top and/or bottom over essentially the entire width of the modules and the stack being arranged in a vessel.

The falling-film evaporator is used in a process for the recovery of a gaseous phase from a liquid fluid on a commercial scale. It is suitable for concentrating thermolabile solutions and for providing a rapidly controllable gas stream.