

Title (en)
METHOD FOR PREPARING AQUEOUS SOLUTIONS

Title (de)
VERFAHREN ZUR AUFBEREITUNG VON WÄSSRIGEN LÖSUNGEN

Title (fr)
PROCÉDÉ DE PRÉPARATION DE SOLUTIONS AQUEUSES

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Application
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Abstract (en)
[origin: WO2013072501A1] The invention relates to a vapor-compression method. The aim of the invention is to provide such a method or a system with which a distillation with a further reduced energy requirement is possible, which simultaneously operates reliably, with little maintenance, and with only little available power, in particular when starting, and which is able to handle fluctuations in the available power. This is achieved in that an aqueous solution is preheated and fed to an evaporator at a lower end in order to generate vapor. The vapor is conducted from an upper end of the evaporator to a compressor (V) in order to be compressed. The vapor that is compressed in the compressor (V) is used to supply energy to the evaporator. The vapor that is thus cooled or optionally at least partly condensed is used to preheat the aqueous solution. Furthermore, the method according to the invention is characterized in that the preheated aqueous solution in the evaporator is heated in evaporator tubes around which the compressed vapor is flushed, and at least one heater that is arranged diagonally in particular is provided in or upstream of the evaporator.

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