

ABSTRACT

The invention relates to a humidity- and/or heat-exchange device, for example a plate heat exchanger a sorption rotor, an adsorption dehumidifying rotor or the similar, provided with humidity- and/or heat-exchange surfaces which make it possible to introduce humidity and/or heat into a fluid flow and/or to remove them therefrom and /or to exchange said humidity and/or heat between fluid flows. The inventive device is also provided with a coating, which makes it possible to cover said humidity and heat exchange surfaces and consists of a zeolithe material and a bonding agent. In order to improve the performance of the humidity- and/or heat-exchange device, the zeolithe material is embodied in the form of a synthetic nano-zeolithe consisting of particles whose size is < 1000 nm.



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