

Product Information: DekaTru coating technologies for sorption coatings for rotor foil.

Rotary heat exchangers with sorption coatings serve the purpose of transferring both sensible heat (temperature) and latent heat (humidity).

Demand for sorption rotors is constantly increasing because they provide fundamentally higher performance, particularly in regions with a high level of external air humidity or where a building is equipped with a supply-air humidification system.

The Association of German Engineers (VDI) guideline 2067 part 1 assumes a basis of 15 years for the calculation of economic feasibility for rotary heat exchangers. Because sorption rotors are also covered by VDI 2067 part 1, it can be guaranteed that not only the storage mass, the sealings, the drive motor and the housing, but also the sorption coatings are of an appropriately high quality.

The Klingenburg HUGO sorption rotor with its 4A-Zeolite coating with particle sizes in the nano-range and the 3A-Zeolite rotor are produced using our internally developed DekaTru coating technology. DekaTru stands for both the special composition and production of its zeolites as well as the actual coatings applied using our machines that were specially designed for the purpose.

The advantages of DekaTru which are unique in the marketplace:

- Dedusting and cleaning can be performed with high-pressure water nozzles as with condensation rotors, without the loss of coating and with no loss of performance.
- Very high heat and moisture recovery coefficients and, at the same time, the lowest pressure losses in the market due to the homogenous and fine thickness of the coating.
- There are no reductions of the service life of Klingenburg rotors with sorption coating.



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