Molecular Sieve - The Preferred Choice

Heatex offers hybrid and sorption rotary heat exchangers whenever humidity transfer capabilities are required. Hybrid rotors feature coating on the flat foil and sorption rotors on both the flat and corrugated foils.

Molecular Sieve for Ventilation Applications

Molecular sieve (also known as Synthetic Zeolite) coating has internationally become the preferred choice due to its superior characteristics in improving indoor air quality.

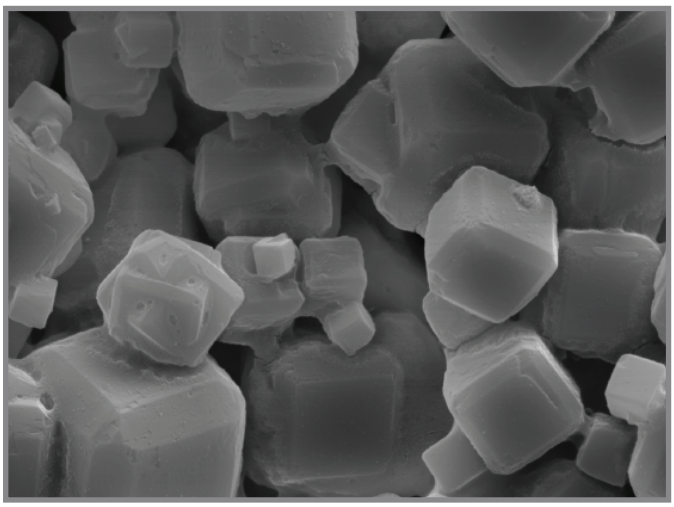
A molecular sieve is an engineered material that contains a uniform network of crystalline pores and empty adsorption cavities that maximize the adsorptive surface area.

Due to its uniform pores size, the molecular sieve does not adsorb compounds with diameters larger than 3Å but perfectly picks up water vapor (humidity) molecules since they correspond well in size. Molecular sieve is approved in tests according to ISO846.

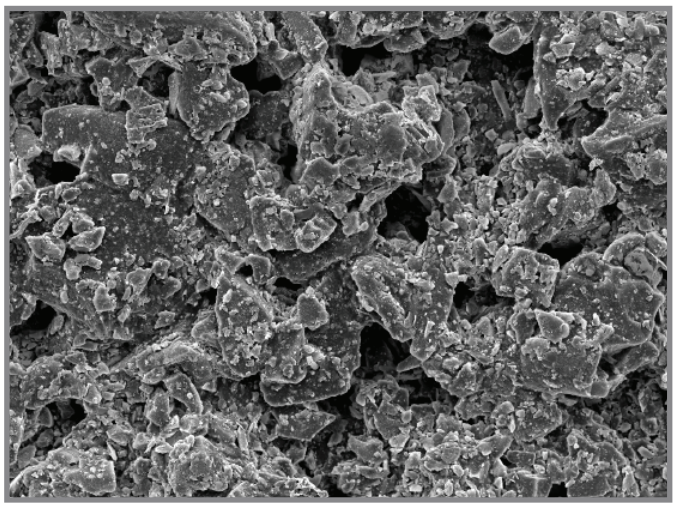
Molecular Sieve is the preferred choice because its:

- More specific adsorption capabilities towards water, resulting in better control over what is transmitted.
- Stronger adsorption effect.
- Excellent moisture adsorptive capacity at low humidity levels.
- Low risk when it comes to odors since it does not absorb large molecules.
- High resistance to fungi and bacteria growth, which makes it suitable for hygenic applications.

Molecular Sieve



Silica Gel



Molecular sieve and silica gel magnified.