

HOW AN ADSORPTION DEHUMIDIFIER WORKS

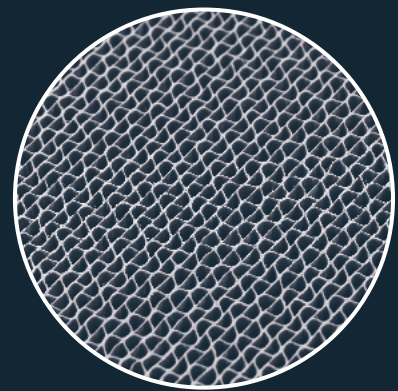
Dehumidifiers are designed to remove water vapour from any volume of air that passes through them.

The heart of this process is a slowly turning rotor coated with silica gel, which absorbs the water molecules present in the air passing through it. In a designated regeneration zone, the saturated rotor is then dried with a separate flow of heated air. The warm, humid regeneration air is then led away, and the rotor is once again ready to absorb water.

The entire process is cyclic, making the system largely self-reliant, with no need for manual intervention and very little need for maintenance.

WHAT DOES A COTES ADSORPTION DEHUMIDIFIER CONSIST OF?

A Cotes adsorption dehumidifier is a complete unit that includes a rotor, geared motor, fans, heater, air filters and an integrated electrical system featuring all the components necessary for safe operation.



ROTOR AND SILICA GEL

- > Fibreglass rotor coated with silica gel
- > 1g of silica gel has a hygroscopic surface area of approx. 800 square metres
- > 9g of silica gel has a hygroscopic surface area corresponding to 1 football pitch

- ① - ⑤ PROCESS AIR FLOW
- ① - ⑤ REGENERATING AIR FLOW

