

HCD Honeycomb–Matrix Drying System

The most effective way to consistently dry plastic pellets



The Matrix

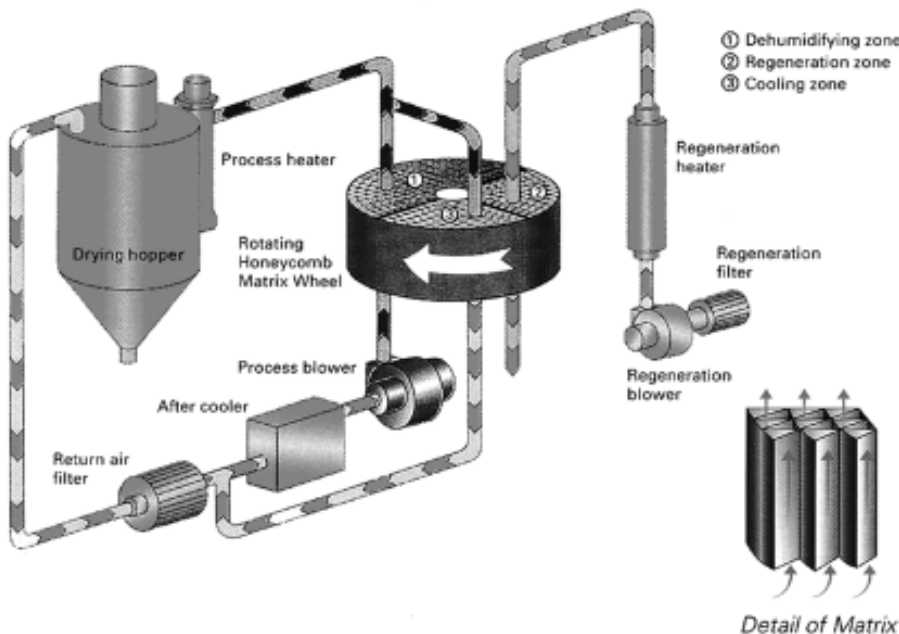
HCD Honeycomb dryers use the Rotating Honeycomb principle to provide the most consistent drying yet possible. The Honeycomb rotor slowly turns while cycles of dehumidification, regeneration and cooling occur simultaneously. This drying system provides a constantly lower dewpoint than any desiccant, compressed air, vacuum or other dryer available today.

Because this unique system operates continuous in drying mode, it is able to maintain dewpoints of -58° F (-50° C), continuously.

The closed-loop circuit design eliminates

the risk of moisture re-absorption and is ideal for drying large quantities of hygroscopic material.

The Dehumidifying Design



The Honeycomb Principle

The heart of the system is the Honeycomb Matrix Wheel. The Wheel has a series of air passages or channels that form the Matrix. The passages inside the Wheel are coated with molecular sieves and silica gel that are strongly bonded to ceramic fibers inside the rotor by special chemical crystallization.

When the Honeycomb Matrix Wheel contacts damp air, it soaks up moisture. When heated, it releases the moisture to the regeneration airstream.

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