

HCD Honeycomb–Matrix Drying System

The Process Circuit

A high-pressure blower draws moist air from the top of the hopper and through the after-cooler into the Honeycomb Matrix Wheel through the return air filter. Moisture is extracted from the air and stored in the Honeycomb Matrix Wheel. The dry air is heated and blown into the bottom of the drying hopper. Because the Matrix Wheel is desiccant-free, there is no dust sent from the dryer into the material.

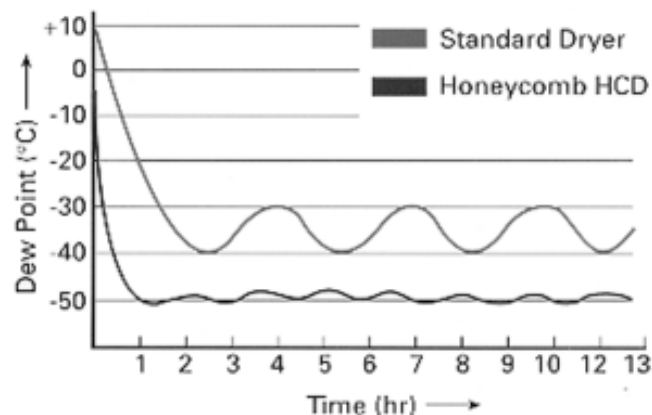
The Regeneration Circuit

The regeneration phase removes moisture from the Honeycomb Matrix Wheel. The regeneration blower draws ambient air to the regeneration heater. The air is heated to approximately 360° F (182° C) and forced through the

channels in the Honeycomb Matrix, which releases its moisture into the hot air stream. The moist, regenerated air is vented out.

To cool the regenerated section of rotors, some of the dried but unheated process air is diverted through the Matrix.

The process, regeneration and cooling cycles occur simultaneously on different sections of the Wheel. A small drive motor turns the Honeycomb Matrix Wheel at the precise time required for the drying conditions.



Specifications

Model Number	Dry Air Flow Rate (m3/h)	Dry Air Flow Rate CFM	Process Blower (hp)	Regen. Blower (hp)	Regen. Heater (kW)	In/Out Pipe Diameter (inch)	PRICE	Dimensions (in)
HCD50	50	30	.5	.06	2.5	1.5	\$6615.00	25.6(L)x23.6(W)x43.3(H)
HCD100	100	60	1.0	.06	3.8	2.5	\$7880.00	30.1(L)x30.1(W)x61.2(H)
HCD180	180	105	2.5	.5	5.2	2.5	\$10,100.00	30.1(L)x30.1(W)x61.2(H)
HCD300	300	175	5.0	.5	9.5	3.0	\$12,600.00	34.1(L)x34.1(W)x73.0(H)
HCD400	400	235	7.4	1.0	13.0	3.0	\$14,950.00	34.1(L)x34.1(W)x73.0(H)

Specify Voltage When Ordering



© 2009 MOLDERS CHOICE, Inc.

24 Hour Service - 7 Days a week

1-800-809-4623

WebSite: www.molderschoice.com • Email: molders@molderschoice.com