

Vacuum dryer models and evaporation capacities



# Vacuum drying Technology

**Models & specifications**

Hosokawa Micron vacuum dryers are available in many sizes, with batch volumes ranging from 1 liter up to 22,000 litres. Underneath you will find 7 sizes with their basic characteristics.

Model (water filling)	[l]	5	80	500	1,000	5,000	12,000	22,000
Height (H)	[mm]	1,420	2,660	3,920	4,460	6,840	8,450	9,950
Width (W)	[mm]	600	900	1,470	1,720	2,710	3,730	4,290
Net volume (powder filling)	[l]	4.3	68	430	840	4,500	12,000	22,000
Jacket surface area	[m <sup>2</sup> ]	0.13	0.69	2.84	4.58	13	25	33
Max. evaporation of water*	[kg/h]	1	5	25	35	100	190	250
Max. evaporation of ethanol*	[kg/h]	3	12.5	60	85	250	400	600

\* with jacket surface temperature T=50°C



**Key features**

**Fast drying times**

With excellent product transportation along the vessel wall, Hosokawa Micron's vacuum dryers guarantee a faster and more efficient drying cycle. Moreover, the quick and efficient removal of vapours results in dried solids that are suitable for direct use. All of our specialists can assist you in the selection of the most suitable technologies for your specific application and product requirements.



**Multipurpose**

Hosokawa Micron's vacuum dryers are very suitable for drying materials such as powders, granules, pastes and slurries, especially when they are heavy, sticky, brittle and/or heat sensitive. However, they are also suitable for vacuum operation, reaction, heating, cooling and de-aeration.



**Systems engineering**

Hosokawa Micron strives to meet even the highest of client specifications and provides solutions that comply with all of the relevant international standards (FDA, cGMP, EHEDG). Our systems engineering encompasses automated solutions with our patented CIP (Cleaning-In-Place) skids, SIP (Sterilization-In-Place) skids and customised seal and mechanical seal designs, including sterile versions.



Reliable  
 Fast drying times  
 Multipurpose  
 Slurry  
 Wet powders  
 Low maintenance  
 Granules  
 CIP/SIP  
 Paste