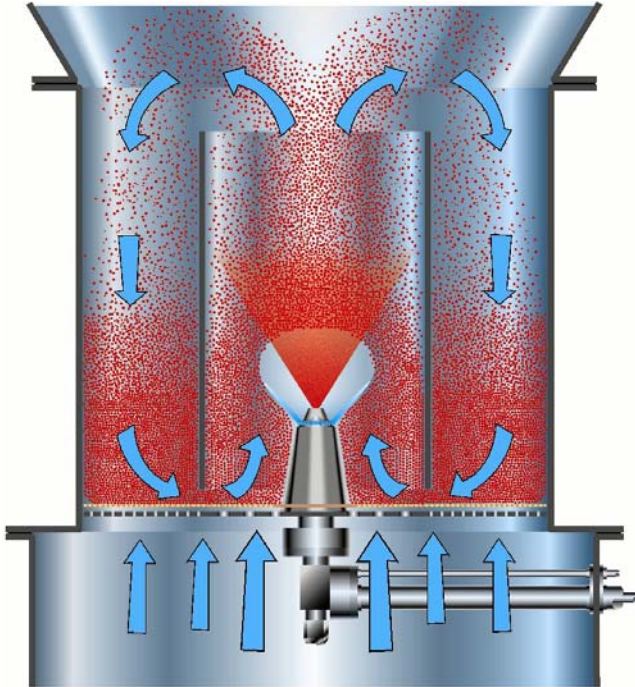
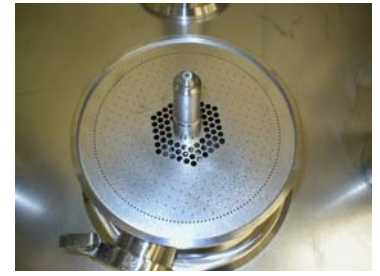


Wurster Accelerator Maximizes Spray Rates

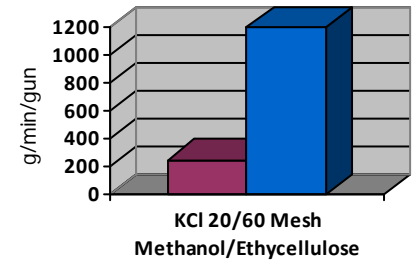
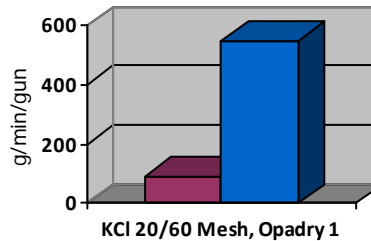
Vector Corporation's patented Wurster Accelerator System provides the fastest possible spray rates for Wurster coating processes. Compressed air diverts product away from the spray nozzle tip, optimizing product movement through the spray zone and minimizing agglomeration.



The Wurster Accelerator gun features a large nozzle orifice and a series of holes diverting product at a 45° angle.



The Wurster distribution plate is engineered for precise product movement through the spray zone.



The graphs above show conventional spray rates (red) compared to spray rates achieved with the Wurster Accelerator (blue).

As particle size increases, the diverter air pressure increases dynamically, maximizing process efficiencies and yields.

Increased Batch Capacity



Vector's tapered Wurster inserts increase batch capacity without negatively affecting the performance of the process. The picture shown at left is a 32 inch tapered Wurster Accelerator insert, which has a 570L capacity (the straight-sided 32" insert has a 300L capacity).

Combination Inserts

Vector's VFC-LAB 1 and VFC-LAB 3 fluid bed systems, as standard, come equipped with a combination insert. This insert performs top spray granulation and bottom spray Wurster processes (equipped with the Accelerator System). The change over from top spray to bottom spray is achieved without tools and is completed in minutes.



Wurster Technology

Automatic Partition Height Control

Scale-Up is easily achieved by including multiple partitions within the Wurster processing insert. Each partition contains its own Wurster Accelerator spray gun and diverter system. The partitions move in unison through the use of stepper motors that accurately control the distance between the air distribution plate and bottom of the partition tubes. Partition height is controlled during the process to optimize yield and coating time.



A six partition 590L Wurster insert with automatic control of partition height.



Stepper motors automatically control Wurster partition height.

Removable Spray Guns

While the process is in operation, it may become necessary to remove the spray guns for cleaning. Vector's Removable Spray Gun design allows a method for the guns to be removed without affecting the process inside the other partitions. Without the use of tools, each spray gun can be removed and replaced within a matter of minutes.



A VFC-300M shown with a 590L straight-sided Wurster insert. The Wurster system, as shown, includes the Wurster Accelerator spraying system, removable spray guns, and automatic partition height control.

Providing equipment and processing solutions around the world since 1972, Vector is a subsidiary of Freund Corporation located in Tokyo, Japan. Globally, the Freund/Vector team has thousands of system installations in the pharmaceutical, healthcare, chemical, agricultural, and food industries.