



GMX-600 High Shear Granulator, VFC-120X 12 Bar Fluid Bed, Integrated Compu 4 Controls, Wet and Dry Mill

Horizontal Granulation Suite with Vacuum Transfer

Vector's horizontal granulation suites can be installed within single or adjacent processing rooms. The equipment layout is based on a through-the-wall design to minimize processing space and simplify cleaning the equipment.

Vector provides the entire system, including vacuum or gravity charging into the high shear granulator, vacuum transferring through a wet mill to the fluid bed dryer, and vacuum or gravity discharging the fluid bed through a dry mill and into an IBC (not shown).

The granulation suite includes Vector's Compu 4[®] automated control system, which integrates the control of the entire system within a single operator interface panel.

Vector's comprehensive FAT includes each individual component of the granulation suite. This ensures the installation, startup, and qualification of the entire system will be completed in the shortest time frame possible.

VECTOR CORPORATION

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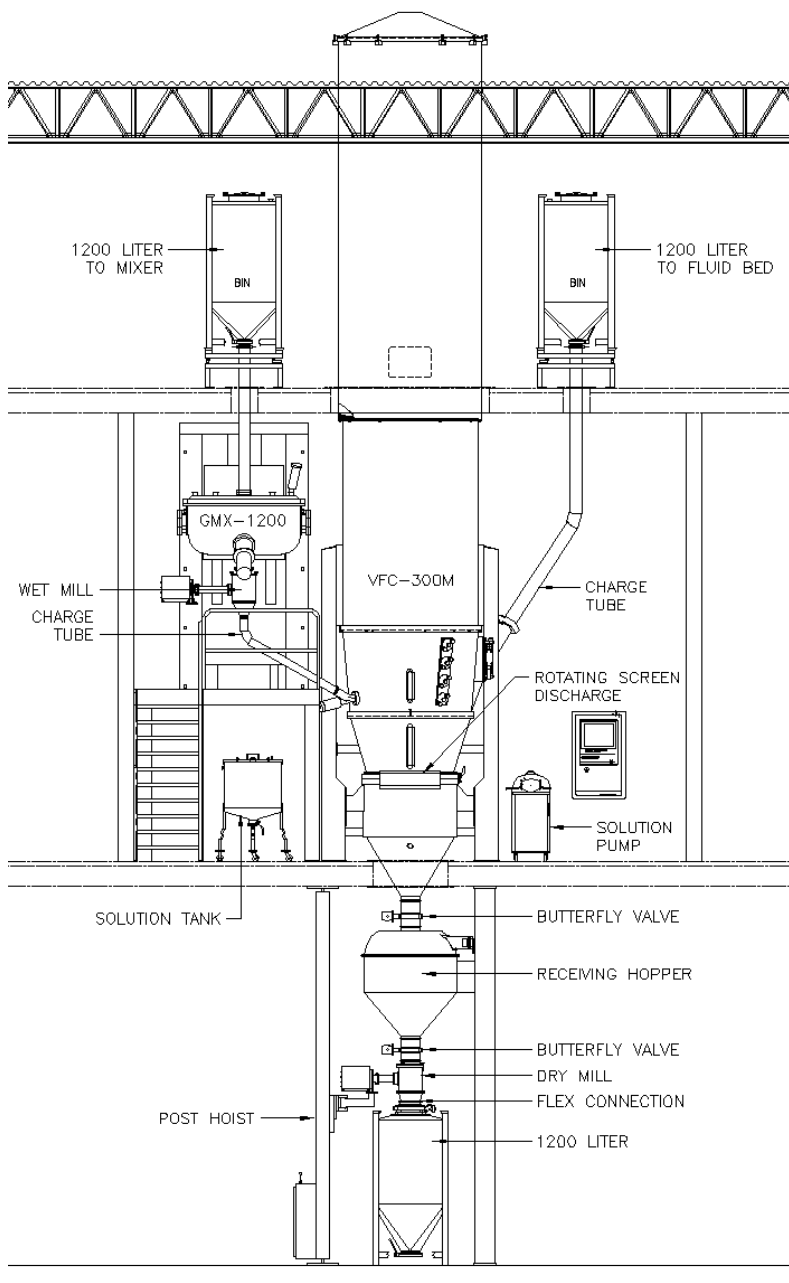
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Granulation Suites

Vertical Granulation Suite with Gravity Transfer



GMX-1200 High Shear Granulator, VFC-300 2 Bar Fluid Bed, Integrated Compu 4 Controls, Wet and Dry Mill, and 1500L Intermediate Bulk Containers

Vector's vertical granulation suites can be installed on several floors of a pharmaceutical facility. Gravity is utilized to provide a more efficient flow of product.

The high shear mixer charges via vacuum or gravity. After the granulation process is complete, the mixer relies on gravity and a wet mill to control the product flow into the fluid bed dryer.

Fluidization is maintained throughout the transfer process to assist product movement and to reduce clumping defects.

If required, the fluid bed can be charged using a secondary IBC, as shown to the top-right of the fluid bed tower.

After the fluid bed drying process is complete, product is discharged using either Vector's patented lowering screen discharge method or via a rotating product screen.

The dried product is discharged into an intermediate hopper where it waits to be dry milled into the final IBC.

To minimize time between batches, the product screen returns to its original position allowing the fluid bed to operate while the dry milling process continues.

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.