

# Vibrating Fluid Bed Dryers

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**CARRIER VIBRATING FLUID BED DRYERS ARE DESIGNED TO DRY AND/OR COOL A VARIETY OF PRODUCTS AT A WIDE RANGE OF FEED RATES.**



Like [conventional fluid bed dryers \(/dryers-coolers/conventional-fluid-bed-dryer/\)](#), vibrating fluid bed dryers function by passing a process gas directly through a bed of solids via a perforated plate or another type of fluidizing media. Vibration is added to aid in fluidization of more difficult materials.

## **VIBRATING FLUID BED DRYERS ARE WELL SUITED FOR:**

- Material that has a wide particle size distribution – fluid bed dryer vibration will help to discharge oversize particles that will not fluidize.
- Sluggish or sticky materials.
- Temperature sensitive materials – a sub-fluidized condition can be created to produce plug flow and eliminate burning or discoloration of individual particles.
- Fragile materials – low amplitude fluid bed dryer vibration and reduced fluidizing velocity create a gentle bed, which causes less degradation than conventional fluid bed dryers or other mechanical dryers.

## **FEATURES AND BENEFITS OF CARRIER VIBRATING FLUID BED DRYERS:**

- Lower fluidizing velocities are required, making the fluid bed dryer system more energy efficient.
- Easy to clean and maintain.
- Re-circulated gas and closed-loop systems available for improved efficiency or solvent recovery.
- Clean-in-place and fire suppression systems available as part of the vibrating fluid bed dryer, where necessary.
- Carrier's patented Delta-Phase® Drive option permits on-line adjustment of angle of vibration and precise retention time control.
- Sanitary, U.S.D.A. (3A) approved vibrating fluid bed dryer construction.

For more information on **Vibrating Fluid Bed Dryers**, refer to [CVE-VFB-0422 \(https://www.carriervibrating.com/wp-content/uploads/2022/05/Vibrating-Fluid-Bed-Brochure-0422.pdf\)](#).