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СУШИЛКИ И УСТАНОВКИ ДЛЯ ОБРАБОТКИ ЧАСТИЦ VIBRO-FLUIDIZER Технические характеристики





GEA Niro VIBRO-FLUIDIZER™

After Treatment

Secondary drying and cooling of powder

After treatment includes secondary drying and cooling and forms an essential part of powder production.

Fluid Bed Dryers

Secondary drying at reduced temperature in a fluid bed gives a gentler treatment than can be obtained through full drying in one step in the spray dryer. Secondary drying takes place in an integrated static fluid bed

built into the bottom of the spray drying chamber. But secondary drying can also take place in an external fluid bed dryer, the VIBRO-FLUIDIZER™, giving great flexibility in dryer configuration.



Internal view of a GEA
Niro VIBRO-
FLUIDIZER™



BUBBLE PLATE™
- air distributio
plates



(Patented)

GEA Niro BUBBLE PLATE™

The art of the fluid bed technique is the ability to control an even air distribution in the powder layer. No lumps, no channelling, constant powder layer, and complete emptying of the fluid bed are essential in operation. The unique GEA Niro BUBBLE PLATE™ is sanitary, thanks to its smooth surface and the fabrication technique of the holes. Furthermore, it ensures complete emptying of the fluid bed.

VIBRO-FLUIDIZER™

Partly dried dairy powders from a spray dryer can be difficult to fluidize. Most external fluid bed dryers are therefore designed as vibrating units to ease fluidization. The VIBRO-FLUIDIZER™ is used for second-stage drying, third-stage drying, and powder cooling. Coating of particle surfaces with e.g. lecithin can also be done in the VIBRO-FLUIDIZER™. The entire fluid bed complies with even the strictest sanitary criteria.

Powder Cooling

The VIBRO-FLUIDIZER™ gives a lenient product transport and cooling. Cooling usually takes place in the second part of the fluid bed, but the entire bed can be designed for cooling, depending on the product to be treated. If cooling is the only issue, a pneumatic cooling system can be used instead of the VIBRO-FLUIDIZER™. This costs less to acquire, but is more expensive to operate. Pneumatic conveying and cooling is used only for products where the physical structure is of minor importance.

After treatment - secondary drying and cooling - constitutes an essential part of powder production. The VIBRO-FLUIDIZER™ is recognized for its efficiency and gentle processing - whether it is a fine powder or an agglomerated product.

A vibrating Fluid Bed provides optimal processing conditions and transport of products with relatively poor fluidization characteristics. The VIBRO-FLUIDIZER™ is most often applied as a final stage in a spray drying process for after drying or cooling, but it can also be operated as an individual unit to dry, cool, de-dust or agglomerate powders from other processes. The VIBRO-FLUIDIZER™ is a 100% sanitary vibrating Fluid Bed complying with the strictest standards and regulation in the dairy and food industries.

The drying process

VIBRO FLUIDIZER powder 1200x675

The moist powder layer is vibrated on an air distributor plate. The effect of the vibration combined with the upward and forward directed flow of drying air through the perforated plate create ideal processing conditions and powder transport. Thanks to the vibration, it is possible to operate with fluidized powder layers of less than 200 mm. This gives a narrow and swift controlled residence time whilst avoiding attrition.

The perforation of the air distributor plate design is selected according to the product application, and it is possible to adjust the angle and direction of the forward directed airflow. This makes the VIBRO-FLUIDIZER™ a very efficient post-drying unit where the powder comes close to the equilibrium of the incoming drying air. Further, it is self-emptying.

The VIBRO-FLUIDIZER™ can be equipped with integrated retractable CIP nozzles for a complete and efficient CIP wet cleaning with very short turnaround time. The VIBRO-FLUIDIZER™ is a truly sanitary vibrating plug flow fluid bed complying with the strictest standards and regulation.



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