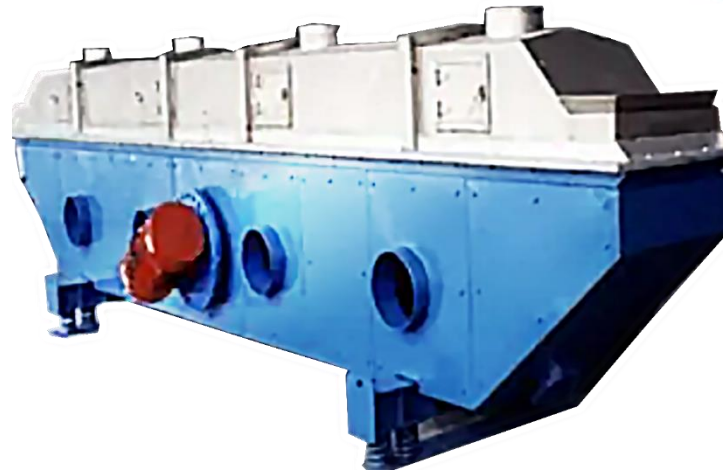




Vibrating Fluid Bed Dryer



Description:

The dryer is suitable in chemical industry, light industry, pharmaceutical, food, plastic, oil, slag, salt, sugar and so on, for drying, cooling and wetting. When used as a drying equipment, the equipment can have drying and cooling functions at the same time, the product can be directly to packing. Large equipment generally adopts the split type, so as to minimize vibration quality, reducing energy consumption.

Principle of work:

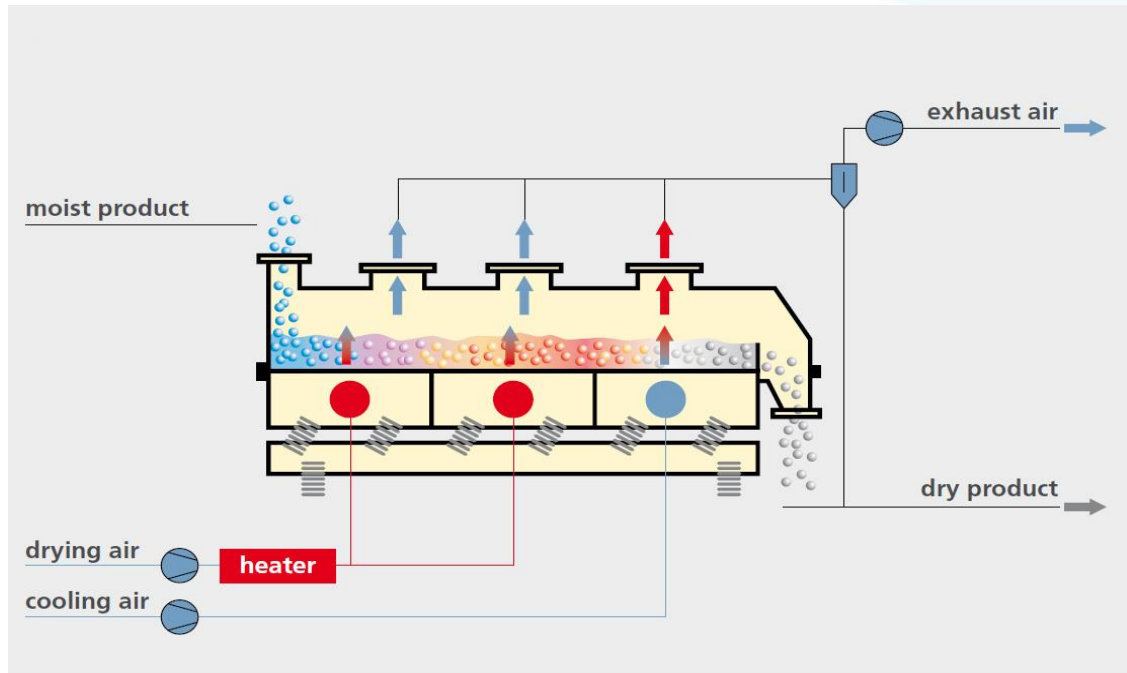
Raw material is fed into the machine and moves forward continuously along with the level of fluidized-bed under action of vibration. The hot air passes through fluidized-bed and carries out heat exchanger with damp raw material. Then the damp air is exhausted out through cyclone separator and dust collector and the dry product is discharged through discharge outlet.

Technical Specification:

Capacity	500 Kg/Hr. to 2000 Kg. / Hr.
Installed Power	50Kw
Amplitude	50-100 mm
Frequency	50 Hz
Voltage	380 / 415 voltz.
Inlet air temperature	70 – 140°C
Outlet air temperature	75-90°C
Lower drying bed	Bed body reinforcing plate is made of U-steel, inner and outer sealing surface of SUS304 stainless steel plate, and full weld polishing treatment; the bed body supporting rib by stainless steel round pipe welding. Material – Carbon Steel / SS 304
Upper drying bed	Stainless steel flange made by angle steel, inner and outer walls polished. Material – SS 304
Heat Source	Steam / Gas Fired Hot Air Furnace
Material	SS 304 / Carbon Steel
Electrical Control Cabinet	1 unit with PLC and Variable Frequency Drive



Sketch:



Features:

- Adopt vibration motor, it is smooth in running and convenient in maintenance. The noise is low and the service life is long.
- The state of fluidization is uniform and no dead gaps or broken phenomenon so to have dry, cool product.
- It is good in adjustment and wide in the field of application. The thickness of raw material and the speed of raw material to be moved inside the machine and the change of vibration range can be steeples.
- The damage the surface of raw material is small. So it can be used for raw materials that are easily to be broken. If the granule is not normal, the effect of process cannot be effected.
- The structure is fully seal, it is effective to prevent from cross pollution of raw materials and the working environment is clean.
- The mechanical and heat are high and it's effective of energy saving. Compared to ordinal dryer, 30-60% of energy is saved.

Application:

- | | | |
|---------------------|------------------------|-------------------|
| • citric acid | • monosodium glutamate | • Borax |
| • ammonium sulphate | • com-pound fertilizer | • piece of radish |
| • Bean | • Lees | • Seed |
| • mine reside | • Sugar | • Chemical |
| • Pharmaceutical | • Foodstuff | • grain |

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