

Fluid Bed Dryer



Prakash Engineering Works has supplied the fluid bed dryer all over India and Abroad for pharmaceutical industries and we have got the results of our machines to their full satisfaction as per the requirements.

Our Company is Manufacturers of Pharmaceutical Machinery from India, Prakash Engineering Works manufacturer of Fluid Bed Dryer which is also known as Fluidized Based Dryer or FBD.

Our Fluid Bed Dryer consists of a simple drying unit and helps in the conversion to a granulation or coater when optional packages are incorporated. Fluid bed dryer is available in standard pneumatic logic and sophisticated computerized controls and are also offered in Steam heated Model. Our dryers provide simple solution to dry products and are high in performance as compared to the conventional drying method in tray dryers, which is rather inadequate & troublesome, especially for pharma industries.

Note: The Fluid Bed Dryer is not suitable for drying liquids of pasty material.

The unique concept of the Fluid Bed System begins with a simple Drying unit to which several different optional packages may be added for conversion to a granulation or coater and conception principle of Air Fluidization for drying granules, crystalline, coarse or similar materials in Pharmaceuticals, Fine Chemicals, Dyes, Food & Allied Industries.

The essential features of our array comprises of the following:

- Variable Air handling equipments from the basic, compact pre-filter and heater to the system
- These equipments provide complete control of the condition of the processing air
- Uniform drying and reduction in drying time.
- Involves low labor input.
- To prevent any fine dust to pass through the product, the atmospheric inlet air is filtered by means of single / multi stage filters of 20 microns.
- Steam Coil made out of 1" dia. SS 304/316 finned tube
- The steam coil is specially designed to get pressure of around 3-4kg./cm² (working pressure 3 kg/cm²)
- A digital temperature indicator cum controller enables in indicating the inlet and outlet air temperature as well as to control the present inlet air temperature
- To control the inlet and outlet air flow air suction and discharge dampers are provided
- To prevent static charge in the machine, an explosion safety flap of adequate capacity at the rear end of the dryer and an positive earthing point timer is provided that sets the process time cutting off the motor supply after pre-set time period.

Diffrent Types of Fluid Bed Dryer Model:

Model	30	60	120	200	250
Product Bowl Volume in Liters	100	220	440	780	960
Batch Capacity in Kg	30	60	120	200	250