



WHEN PARTICLE SIZE MATTERS

Precision Test Sieves | Sieve Shakers



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Fluid Bed Dryer FBD 2000

Simply the most efficient method of drying samples for analysis

A bench top unit for the rapid drying of chemicals, foodstuffs and minerals prior to sieve analysis and other tests.

Advantages

- **Fast:** Drying times range from a few seconds to minutes.
- **Efficient:** High rates of heat transfer ensure faster and more homogeneous drying than oven, microwave or vacuum drying.
- **Versatile:** Suitable for most granular and powder materials.
- **Reproducible results:** Precise controls ensure uniform and reproducible results.
- **Easy to use:** Manageable controls with straightforward settings

Accessories

Single tubs come in 2 and 5 litre sizes in either stainless steel or glass. A multi-tub unit with 4 x 300 ml tubs is also available for drying four samples simultaneously.

Glass tubs are particularly useful for observing the fluidisation process to establish optimum settings.

An attachment is also available for the efficient drying of test sieves.



Specifications	Fluid Bed Dryer
Max. Sample Weight	5 kg
Voltage Rating	115 V or 230 V 50 Hz or 60 Hz
Power Consumption	2.6 KVA
Dimensions (H x W x D)	260 x 340 x 495 mm
Weight	19 kg

The FBD 2000 offers significant advantages over conventional drying techniques.

The FBD 2000 is a compact, portable dryer. Its powerful air delivery system makes drying a very fast operation. The fluidisation mixes and separates the particles minimising the risk of abrasion and the creation of lumps resulting in a truly representative sample.

The comprehensive set of controls makes it ideal for use in the laboratory on a wide selection of materials.

High air flow rates provide high rates of heat transfer and ensure much faster and more homogeneous drying than other methods such as oven, microwave and vacuum drying. Drying times range from a few seconds to minutes. Complete drying is usually achieved in under 15 minutes.

How the FBD 2000 operates A powerful fan delivers the high volume air flow from the base unit into a special tub assembly which

holds the sample material. The flow of heated air passes through a diffuser gauze which supports the bed and evenly distributes the air as it passes into the tub.

A filter bag at the top of the tub keeps the sample in while allowing the air, moisture and gases to escape.

Temperature Control

Air is heated by a 2 kW electric heater and can be set to any temperature up to 200 °C.

Timed Cycle

A built in digital timer enables the drying time to be pre-set and the drying operation to be carried out unattended. At the end of the cycle time an alarm sounds and the unit switches off automatically.

Air Flow

The air flow rate and fluidisation velocity are infinitely variable from 0.4 to 2.4 m /min volume (0.9 to 5 m/sec speed). Optimum levels can be set by observing the sample behaviour within the glass tubs.

Filter Bag Material

Filter bags are usually nylon or terylene with other materials available for more aggressive conditions such as sustained high temperature drying. Large bags are suitable for 2 litre and 5 litre tubs. For multi-tub unit 4 small filter bags are needed.



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