

## Fluid Bed Dryer TG 200

### General Information

The fluid bed dryer TG 200 is used in quality control, sample preparation and R&D departments. It permits the gentle drying of organic, inorganic, chemical or pharmaceutical bulk materials without localized overheating. Suitable materials can be coarse, fine, crystalline, fibrous or leafy. The powerful fan of the fluid bed dryer ensures optimal air throughput so that the products to be dried are loosened up and thoroughly mixed resulting in short drying times. With the interval operation the fluidized bed is mixed even better. Temperature, drying time and air volume can be set digitally and adjusted continuously.



### Application Examples

cellulose, coal, coke, compost, leather, pharmaceutical materials, plastic granules, refuse derived fuels, saw dust, soils, splints, waste samples, ...

### Product Advantages

- gentle drying, dispersing and mixing also of temperature sensitive materials
- very short drying times (~ 5 - 20 min)
- powerful fan for optimal air throughput
- easy handling
- interval operation for better mixing of the fluidized bed
- wide range of accessories including various containers
- memory for up to 9 SOPs
- motor with no brushes allows for long service life

### Features

|                        |   |
|------------------------|---|
| Applications           | drying  |
| Field of application   | agriculture, biology, chemistry / plastics, construction materials, environment / recycling, food, medicine / pharmaceuticals |
| Feed material          | bulk materials and solids   |
| Material feed size*    | > 100 µm  |
| Volume flow            | 185 m <sup>3</sup> /h   |
| Time setting           | digital, 1 - 99 min / continuous operation  |
| Storable SOPs          | 9   |
| Temperature control    | continuously adjustable, 40 - 130 °C (depending on air throughput rate)   |
| Drying time*           | 5 - 20 min, depending on product, quantity, moisture content  |
| Container volume       | 1 x 6 l / 3 x 0.3 l   |
| Electrical supply data | 200-240 V, 50/60 Hz   |
| Power connection       | 1-phase   |
| W x H x D              | 400 x 1000 x 480 mm   |

## Fluid Bed Dryer TG 200

Net weight ~ 21 kg  
Standards CE

**Please note:**

\*depending on feed material and instrument configuration/settings

### Videolink



<http://www.retsch.com/tg200>

### Function Principle

Drying in the Fluid Bed Dryer TG 200 makes use of the fluidized bed process, a technique similar to the one used in large industrial dryers. Ambient air is drawn in through a filter. A blower moves the air across the heating elements, and ultimately forces it through the perforated plate and into the detachable drying container. The solid particles are blown upward and dispersed and thus kept separate from one another. This helps to avoid a caking and sticking of the particles as it often occurs when other drying methods are used. The air stream of the fluid bed dryer extracts moisture from the particles and then exits through the filter bag in the cover. Using the quick-clamp cover with the filter fleece insert is advisable when dealing with products finer than 100 µm in diameter. The 1000 watt blower provides an air volume of 185 m<sup>3</sup>/h at idle speed; heater output is 2000 watts. The air volume, heating power and temperature are infinitely adjustable. Temperature control is effected using the display gauge.