

FLUID BED DRYER TG 200

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 m3/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 I / 3 x 0.3 I
Electrical supply data	200-240 V, 50/60 Hz
Power connection	1-phase
WxHxD	400 x 1000 x 480 mm
Net weight	~ 21 kg
Standards	CE

*depending on feed material and instrument configuration/settings





FUNCTIONAL 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 m³/h at idle speed; heater output is 2000 watts. The air volume, heating power and temperature are infinitely adjustable. Temperature control is effected using he display gauge.



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