



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.

The TG 200 now offers an extended maximum time setting, increased from 99 minutes to 9 hours, with several intermediate steps. This enhancement allows users to initiate longer drying processes, including overnight operations, without any risk. Continuous drying remains an available option.

PRODUCT ADVANTAGES

- | gentle drying, dispersing and mixing also of temperature sensitive materials
- | max. drying time of 9 hours with several intermediate steps
- | 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

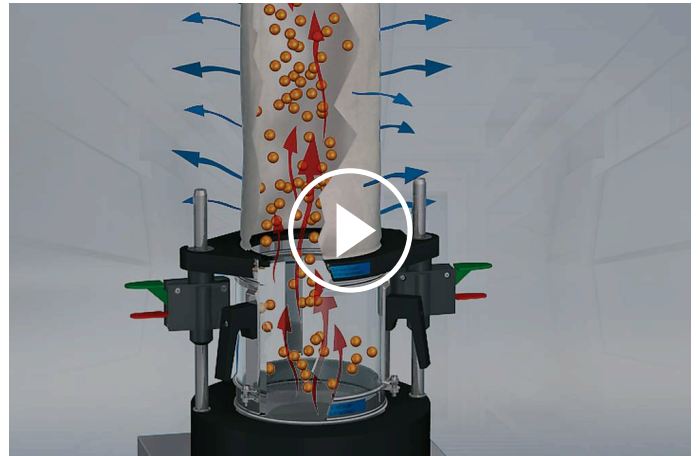
APPLICATION EXAMPLES

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

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 the display gauge.



[Click to view video](#)

FLUID BED DRYER TG 200

TECHNICAL DATA

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 ³ /h
Time setting	digital, 1 - 99 min / 2 - 9 hours / 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
Net weight	~ 21 kg
Standards	CE

*depending on feed material and instrument configuration/settings

www.retsch.com/tg200

ORDER DATA

FLUID BED DRYER TG 200

**Fluid Bed Dryer TG 200 incl. clamping lid "comfort" with filter bag
(please order drying container separately)**

70.760.0001 TG 200 200–240 V, 50/60 Hz



DRYING CONTAINER TG 200

72.783.0001 Drying container of glass, 6 litres




72.783.0002 Drying container of stainless steel, 6 litres



72.002.0005 Drying container of glass, 3 x 0.3 litres (incl. intermediate ring, holder and filter bags)



ACCESSORIES TG 200

72.643.0001   Clamping lid "comfort" with filter insert (exchangeable), incl. 10 replacement filters

72.143.0001  Filter insert for clamping lid "comfort", 10 pieces



72.107.0002   Clamping lid "comfort" with filter bag

02.186.0015  Filter bag for clamping lid "comfort"

72.107.0001   Lid with filter insert for 0.3 litres drying containers, 3 pieces

03.186.0024  Filter insert for 0.3 litres drying container, 1 piece

02.045.0020  Spare drying container of glass, 0.3 litres, 1 piece

02.186.0004   Filter bag for drying container 0.3 litres, 1 piece

72.001.0005



Adapter for drying sieves 203 mm Ø

03.742.0001

Dust filter for blower, 1 piece (please order amount multiple of 10 pcs.)

72.737.0003



Quick-clamping elements for TG 200, 1 pair

72.742.0001

Rods, smooth, 1 pair

99.200.0018

IQ/OQ Documentation for TG 200