

Fluid Bed Dryer TG 200

General Information

The 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 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 ³ /h
Time setting	digital, 1 - 99 min / continuous operation
Storable SOPs	9
Temperature control	continuously adjustable, 40 - 150 °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

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Power connection	1-phase
W x H x D	400 x 1000 x 480 mm
Net weight	~ 21 kg
Documentation	Operation & Application Video
Standards	CE

*depending on feed material and instrument configuration/settings

Fluid Bed Dryer TG 200

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 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. □

Order data

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. 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

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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
72.143.0003	Dust filter for blower, 10 pieces
72.737.0003	Quick-clamping elements for TG 200, 1 pair
72.742.0001	Rods, smooth, 1 pair