

Mills, ultra centrifugal, ZM200



Ideal for fine grinding for sample preparation of activated charcoal, animal tissue, bentonite, bones, cereals, chemical products, coal, coffee beans, coke, collagen, corn, dried fruit and vegetables, dried larvae, drugs, electronic components, feed pellets, fertilizers, food, limestone, minerals, paper, pharmaceutical materials, plant materials, plastics, powder coatings, refuse derived fuels, rice, rubber granulate, seeds, spices and straw etc.

- Gentle and very rapid size reduction by pre and fine grinding in one run
- Powerdrive with optimally matched frequency converter and 3 phase motor
- Comfortable parameter setting via display and ergonomic 1 button operation
- Wide range of accessories including various collection and feeding systems, rotors and sieves
- Wide speed range
- Patented cassette system for maximum sample recovery and easy cleaning
- Easily exchangeable grinding and sieve inserts
- Defined final fineness due to ring sieves with aperture sizes from 0.08mm to 10mm
- Comfortable safety housing with automatic cover closure
- Motor compartment and electronics protected against dust and material penetration

Because of the efficient size reduction technique the ZM200 ensures the gentle preparation of analytical samples in a very short time. The comprehensive range of accessories including a large variety of ring sieves and rotors as well as collection systems makes the ultra centrifugal mill a versatile instrument that can be easily adapted to varying applications. The optional vibratory feeder is load controlled via an interface and ensures a uniform grind at maximum output rate. When using a cyclone, the sample material is additionally cooled by the air stream and more rapidly discharged from the grinding chamber via the cassette pan with outlet. This effect can be increased by connecting a vacuum cleaner.



Technical Specification - General

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|--------------------------------------|--|
| Model No | ZM200 |
| Material | Feed material: soft, medium hard, brittle and fibrous Grinding tool: stainless steel, titanium, steel 1.4404, stainless steel with wear resistant coating |
| Feed size, mm | <10 |
| Quantity, mL | Batch size: 300 with standard cassette, 20 with mini-cassette, 1,000 with paper filter bag, 4,500 / 2,500 / 450 / 230 with cyclone |
| Final fineness, µm | <40 |
| Speed | 6,000 to 18,000min ⁻¹ , free selectable (at 50Hz) |
| Rotor | Type: 6 tooth rotor / 12 tooth rotor / 24 tooth rotor / 8 tooth mini rotor Speed: 31m/s to 93m/s |
| Rotor diameter, mm | 99 |
| Size, mm | Trapezium sieve holes: 0.08 / 0.12 / 0.20 / 0.25 / 0.50 / 0.75 / 1.00 / 1.50 / 2.00 Round sieve holes 3.00 / 4.00 / 5.00 / 6.00 / 10.00 |
| Capacity, mL | Collector capacity: 900 with standard cassette, 50 with mini cassette, 3,000 with paper filter bag, 5,000 / 3,000 / 500 / 250 with cyclone |
| Drive | 3 phase asynchronous motor with frequency converter |
| Electrical supply | Different voltages |
| Power rating | 1 phase |
| Power consumption, W | 1,300 |
| Code | Protection: IP 20 |
| Dimensions, internal [w x d x h], mm | 410 x 365 x 515 |
| Mass, kg | ~38 |
| Documentation | Operation and application video |

| Catalogue No | Legacy No | Model No | Description |
|--------------|-----------|----------|------------------------|
| 10786671 | - | ZM200 | Ultra centrifugal mill |

Accessories

| Catalogue No | Legacy No | Model No | Description |
|--------------|-----------|-------------|---|
| 10397982 | - | 22.786.0002 | Conversion kit for grinding small volumes, consisting of 8 tooth push fit rotor, labyrinth disc and cassette (50mL) |
| 11771846 | - | 02.608.0057 | 8 tooth push fit rotor, corrosion resistant steel 1.4404 (316) |
| 11781846 | - | 02.706.0247 | Labyrinth disc |
| 11791846 | - | 02.010.0039 | Cassette (50mL), corrosion resistant steel 1.4404 (316), complete (pan, cover and gasket) |

entry continued