

Digital High Speed Homogenizer D-500D



The sleek, sound-insulated casing conceals enough power to safely and quickly handle a variety of applications. Our broad range of dispersing aggregates cover the range from preparing samples to testing product formulas and recipes.

The D500-D is the ideal solution for cost-conscious laboratories. It is able to perform homogenizations with volumes from 0.05 to 2500 ml. The electronic control system continuously monitors the speed and automatically adjusts it, keeping it constant with changing viscosity. The speed is easily seen on the large digital display.

Aggregates with a variety of styles and diameters are available to provide optimum particle size reduction when using this drive. There are many different styles of aggregates available from 3mm in diameter for volumes down to 0.01 mL to 12mm for volumes up to 250mL. If cross contamination from sample to sample is a concern, we offer single use synthetic aggregates in 7 and 12mm diameters

Advantages

- 500 Watt motor provides sufficient power and high speed necessary for efficient particle size reduction
- Digital motor speed control from 500 to 30,000 rpm
- Aggregate tip speeds up to 32 m/s produce the finest particles possible
- Soft start prevents splashing of homogenate from sample vessel
- Thermal fuse for overload protection
- Speed remains constant even when viscosity changes
- Aggregate replacement using one-handed quick-release coupling
- Insulated motor housing keeps motor noise to a safe, approved level
- Various models of dispersing aggregates which are Easy-to-Clean and designed for many different applications



Applications

Using this drive, a variety of dispersing, homogenizing and suspension applications can be realized. Our Sales team is looking forward to advice you regarding your application.

- Creation of dispersions and emulsions
- Dispersing of plant, human or animal tissue, resins and pigments
- Solving of solid materials
- Creation of suspensions
- Formulation of lotions, creams and food
- Production of oil-water emulsions
- Sample preparation for subsequent extraction of pharmaceutical agents (API)
- From plant and animal tissue and for API dispersion in pharmaceutical products
- Excellent for quality assurance and quality control

ERGONOMICS

- Easy operation with an on-off switch and speed control
- Intelligent variable speed control for long equipment life
- Speed stability even with changes in viscosity
- Easy adjustment of motor height
- Switch aggregate quickly with Click & Go coupling
- Easy aggregate clean-up with Easy-Clean Design

Specifications

| | |
|------------------------------|---|
| Model | D-500D |
| Speed Range (rpm) | 500 – 30.000 |
| Process Volume Range (ml) | 0.05 – 2.000 |
| Motor Power (W) | 500 |
| Contact Material | 316L Stainless Steel / PTFE |
| Noise Emission | 66 dB at 25.000 rpm / 72 dB at 30.000 rpm |
| Protection Class | IP20 |
| Dimensions (L x D x H in mm) | 170 x 102 x 255 |
| Order No. | 1710500D |

Accessories for Digital High-Speed Homogenizer

| Model | 2503 | 2505 | 2507 | 2509 | 2512 | 2520 | 2520F |
|-----------------|--|---|------------------------------|--|--|---|--|
| Length | 50mm | 85 mm | 107 mm | 82mm | 123 mm | 192mm | 170mm |
| Stator Diameter | 3 mm | 5.6 mm | 7.8 mm | 7.8 mm | 12 mm | 20 mm | 20 mm |
| Rotor Diameter | 1.8 mm | 3 mm | 5 mm | 5 mm | 9 mm | 15 mm | 15 mm |
| Linear Velocity | 4.0 m/s | 4.7 m/s | 7.8 m/s | 7.8mm | 14.1 m/s | 22 m/s | 22 m/s |
| Volume Range | 0.05 - 2 ml | 0.1 - 5 ml | 0.3 - 10 ml | 0.3-10ml | 2 - 250 ml | 100 - 2000 ml | 100 - 2000 ml |
| Application | Small plant samples, animal and human tissue; fits to round bottom Eppendorf tubes | Small plant samples, animal and human tissue; solid solutes, cell disrupter | Animal tissue, solid solutes | Extracts, preparation of suspension and latex; one time use only (25 pcs per package; sterile) | Cells, plants, animal tissue, human tissue | Plants, animal tissue, human tissue, resin, coloring matter | Preparation of suspension and latex, pharmaceutical shells |

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