

Homogenizer

The GentianaB-500 is a simple, easy to handle and has the ability to achieve quality results quickly. He has the speed and power to emulsify, suspend, cut and chop always to deliver accurate results. It has complete flexibility to hold it by hand, mounted to a pole or wall, with mounting plate or type H.

Features






- The GentianaB-500 homogenizer is the ideal solution for dispersing, homogenizing, mixing and grinding biological tissue samples (cells, animal and plant tissues), pharmaceutical products, cosmetics and food products. The WT500 is characterized by a high versatility that makes it unique on the market. A “Quick Lock” single quarter turn assembly shaft can be combined with a wide selection of stator and rotor configurations according to the specific application for which it is to be used. Flexible, easy-to-use, rapid and user-friendly stator and rotor interchangeability: a single instrument for a wide range of uses that ensures excellent performance and safety.



Specifications

| model | GentianaB-500-A | GentianaB-500-B |
|----------------------------|---|---|
| Voltage/ Frequency | AC 220V-240V, 60Hz | |
| Power input/output(W) | 500Watt | |
| speed range(rpm) | 10000-30000rpm | |
| Rotor speed(m/sec) | 22.7-36m/sec | |
| Speed Setting | 6 speeds | |
| Range(ml,H2O) | 100ml-5,000ml (Dispersing Shaft set B-500/SS20CSR20) | 100ml-5,000ml (Dispersing Shaft set B-500/SS20FER20) |
| Max viscosity(mPas) | 10,000mPas | |
| Material | stainless steel PTEE | |
| Weight(kg) | 1.3kg | |
| Dimensions(mm) | 70mmx70mmx255 | |
| noise emission(drive only) | 79dB(A) | |
| Operating Environment | 0-40°C , 85%rel.humidity | |
| Protection class | IP20 | |

Options

| Dispersing Shaft set | Model | Medium Function | Treatable Volume (H2O)/(ml) | Max linear velocity (m/sec) | Rotor diameter (mm) | Stator diameter (mm) | Min/max emersion depth (mm) |
|---|-----------|-----------------------|-----------------------------|-----------------------------|---------------------|----------------------|-----------------------------|
|  | SS20CSR20 | SOLID / LIQUID | 10-5000 | 23.5 | 15 | 20 | 40/175 |
|  | SS20FER20 | SUSPENSION/ EMULSIONS | 10-5000 | 23.5 | 15 | 20 | 40/175 |
|  | SS30CCR30 | STRINGY/ FIBROUS | 100-8000 | 36.1 | 23 | 30 | 40/175 |
|  | SS30FER30 | SUSPENSION/ EMULSIONS | 100-8000 | 36.1 | 23 | 30 | 40/175 |
|  | SS40CCR40 | SOLID / LIQUID | 100-20000 | 50.3 | 32 | 40 | 40/175 |
| | SS05CSR04 | LIQUID / LIQUID | 1-50 | 6 | 5 | 5 | 10/70 |

Homogenizer

The GentianaB-170 is a simple, easy to handle and has the ability to achieve quality results quickly. He has the speed and power to emulsify, suspend, cut and chop always to deliver accurate results. It has complete flexibility to hold it by hand, mounted to a pole or wall, with mounting plate or type H.

Features




- The GentianaB- 170 is a rotor/stator type hand held tissue homogenizer which can rapidly dispersing, homogenizing, extractions, cell disruption, mixing, emulsifying, suspending samples in 0.1 - 50 ml of liquid or 1-250ml depending on the dispersing shaft. During operation, the suspended material is drawn into the core of the homogenizer by a rotor turning at up to 30,000 rpm. The material is repeatedly cycled through narrow slits in the stator where it is rapidly sheared and disintegrated by high shear mechanical action. Complete homogenization of tissues (muscle, liver, breast tissue, etc.) is usually achieved in a few seconds. Little, if any, heat is produced during the process.



Specifications

| model | GentianaB-170-A | GentianaB-170-B |
|----------------------------|---|--|
| Voltage/ Frequency | AC 220V-240V, 60Hz | |
| Power input/output(W) | 160Watt | |
| speed range(rpm) | 8000-30000rpm | |
| Rotor speed(m/sec) | 6.3-14m/sec | |
| Speed Setting | 6 speeds | |
| Range(ml,H2O) | 0.1-50ml (Dispersing Shaft set B-170/5) | 1-250ml(Dispersing Shaft set B-170/10) |
| Max viscosity(mPas) | 5,000mPas | |
| Material | stainless steel PTEE | |
| Weight(kg) | 0.6kg | |
| Dimensions(mm) | 46mmx55mmx230mm | |
| noise emission(drive only) | 72dB(A) | |
| Operating Environment | 0-40°C , 85%rel.humidity | |
| Protection class | IP20 | |

Options

| Dispersing Shaft set | Model | Medium Function | Treatable Volume (H2O)/(ml) | Max linear velocity (m/sec) | Rotor diameter (mm) | Stator diameter (mm) | Min/max emersion depth (mm) |
|---|----------|------------------------------|-----------------------------|-----------------------------|---------------------|----------------------|-----------------------------|
|  | B-170/5 | LITTLE SAMPLE SOLID / LIQUID | 0.1-50 | 6.3 | 3 | 5 | 7/50 |
|  | B-170/10 | LITTLE SAMPLE SOLID / LIQUID | 1-250 | 14 | 6 | 10 | 10/120 |
|  | B-170/14 | LITTLE SAMPLE SOLID / LIQUID | 100 - 1000 | 20 | 13 | 14 | 15/130 |