

paddle sterile homogenizer with touch screen operation

By mechanical tapping, the sample is fully mixed with the dilution solution in the sterile bag, thus releasing and separating the microorganisms or active ingredients on the surface or inside of the sample to ensure that the portion taken is representative.

Clapper Aseptic Homogenizer, paddle sterile homogenizer

This method not only avoids cross contamination, but also eliminates the need for direct contact with the sample and meets modern laboratory standards for aseptic operation.

Features

- **High-efficiency low-noise motor:** Equipped with a silent motor system, effectively reducing the operating noise and electromagnetic interference, to enhance the comfort of the laboratory.
- **Adjustable tapping system:** Tapping frequency, time and tapping plate spacing can be precisely adjusted to adapt to a variety of sample volume and hardness.
- **Digital control interface:** Full touch screen operation, intuitive and simple parameter setting, and support the real-time display of the experimental status.



- **Electric distance adjustment system:** Adjust the distance between the clapper plates by electric means, with digital display, easier to control the homogenization strength.
- **Safety door and waste liquid management:** Transparent and removable safety door for easy cleaning and observation. It is equipped with drip collection tray and leakage alarm system to ensure the safety of operation.
- **Aseptic operation guarantee:** The whole sample processing is closed in Cobalt-60, cobalt-60 sterilized disposable sterile bag to avoid cross contamination.
- **Compatible with micro-processing:** Optional micro-tap component, suitable for processing small volume or valuable samples.

Working Principle

The core principle of the clapper aseptic homogenizer is to alternately and rapidly tap the sample bag by two clapper plates, so that the sample inside the bag is violently mixed with the diluent. The tapping force breaks up the cellular structure of the sample or causes microorganisms on the surface and inside to be dislodged and released into the liquid. During this process, the sample remains enclosed in the sterilized sterile bag, thus ensuring a sterile processing environment and no contamination of the sample components.

Process of Use:

1. Fill the solid sample and dilution solution into the sterile homogenizing bag.
2. Put the bag into the homogenizer, close the safety door.

3. Set the homogenization parameters, time, frequency, spacing.
4. Start the equipment, the clapper plate begins to beat at high frequency.
5. After homogenization is completed, the homogenized liquid can be used directly for subsequent testing, such as microbial culture, PCR, pesticide residue analysis, etc.

Application Fields

- **Food safety testing:** For vegetables, fruits, dairy products, cooked food and other samples in the total number of microorganisms, coliforms, salmonella and other pre-treatment.
- **Pharmaceutical research development and inspection:** Microorganisms or active ingredients extraction in medicines such as herbal medicine, medicinal mycobacteria, tablets and so on.
- **Environmental monitoring:** Pollutants in soil, water, sediment, flora release treatment.
- **Disease control and microbiological research:** Clinical or experimental animal tissues, intestinal samples of pathogen isolation.
- **Education and scientific research institutions:** For teaching experiments or scientific research data pre-sample preparation.

Standard and Optional Accessories

- **Standard:** 25 homogenization bags, 1 water tray, 10 sealing clips.
- **Optional:** Stand, aseptic support frame, aseptic bag, sealing clip.

paddle sterile homogenizer blender with touch screen

Model	P400B	P400G
operation method	digital	touch screen
Timer	10s, 30s, 60s, 90s, 120s, 180s, 600s or run continuously	0 to 99minuts or run continuously
Batting Speed	6 to 9 time/s, 3 to 12 time/s can be customized	4 to 10 time/s, 3 to 12 time/s can be customized
UV Sterilization	No	
Volume	50 to 400ml	
Homogenizing bag size	300x185mm	
Power	200W	
Power supply	230Vac, 50/60Hz	
Dimensions	410mmX270mmX290mm	

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Model	P400B	P400G
Weight	16.5kg	