

## Portable High-flow Bioaerosol Sampler

### Model: WA-400II

This is a centrifugal bioaerosol sampler, which could collect the micron and submicron biological aerosol particles into liquid directly from the air, including bacteria, viruses, fungi, mold, pollen, dust phage, worm, and brussel, etc.. Then processing with the methods of bacterial culture, PCR and LAMP, the bioaerosol kind and concentration in the air will be detected. Sampling medium includes water, cell culture fluid, virus preservation fluid, PBS buffer, etc.

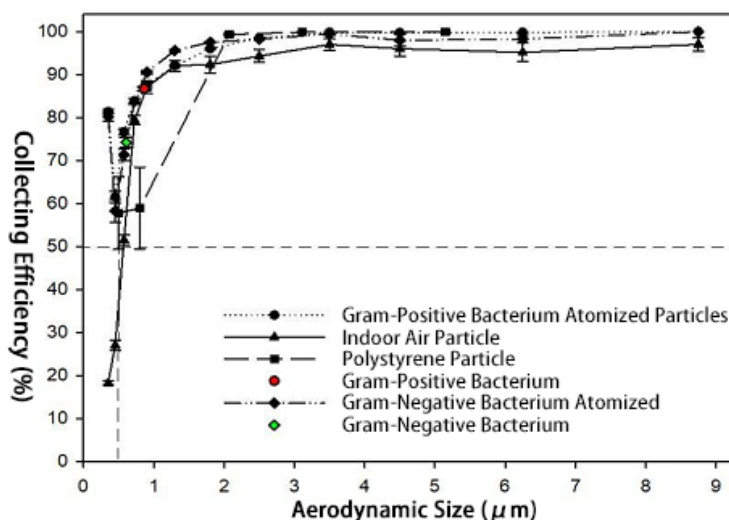
#### Feature

- Centrifugal bioaerosol sampling, with large sampling flow, high flow rate and high collection efficiency.
- Less collection liquid, high sample concentration and high positive rate of sample liquid detection.
- The contaminated parts, such as sampling cylinder and sampling tube, can be disassembled, replaced, disinfected and reused on site. The operation is simple and fast, avoiding the cross contamination during continuous sampling process.
- Delayed start time and sampling time can be set, LCD screen display, touch screen operation, one-button start, and easy operation.
- Built-in rechargeable battery, which can be fitted with 220V AC or 12V DC
- Integrated design for the whole machine, light and portable, convenient for surface disinfection.

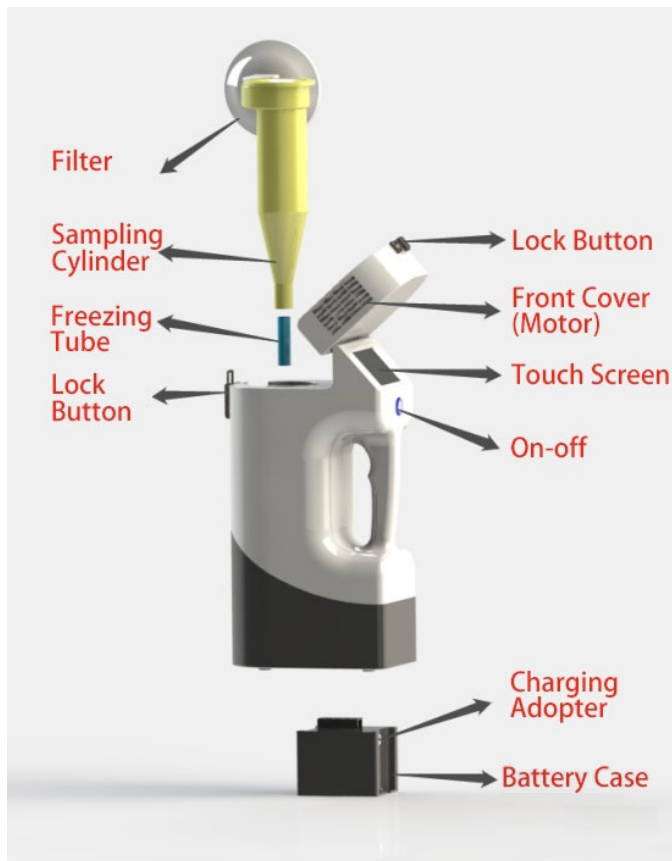


#### Specification

Flow Rate	400L/min
Collection Efficiency	0.5μm PM 48.6% 1μm PM 91.6%
Sampling Tube	φ15*60mm
Sampling Liquid	3ml
Sampling Time	User setting
Power Supply	Battery, 3.5hour
Temperature	0~45°C
Dimension	220*130*400mm
Weight	3kg



## Structure



## Application & Actual Case

Our sampler can be applied in on-site emergency sampling, battlefield biotoxin sampling. And also be widely used in disease prevention & control, environmental protection, pharmaceutical, fermentation industry, food industry, biological cleaning and public places and other air microorganism sampling. For teaching, scientific research and other institutions, our instrument also has a good application in air microorganism sampling.

**Our sampler is especially suitable for the Covid-19 Environment Detection.**

1. **Wuhan Center for Disease Control and Prevention** carried out scanning collection of novel Coronavirus aerosols sample in the isolation ward of Hospital, and used digital PCR technology to detect the Coronavirus samples. It was found that, although the nucleic acid test of the samples was negative, the low concentration of novel Coronavirus could still be detected by digital PCR.

CDC also has applications in farmers' markets, etc.

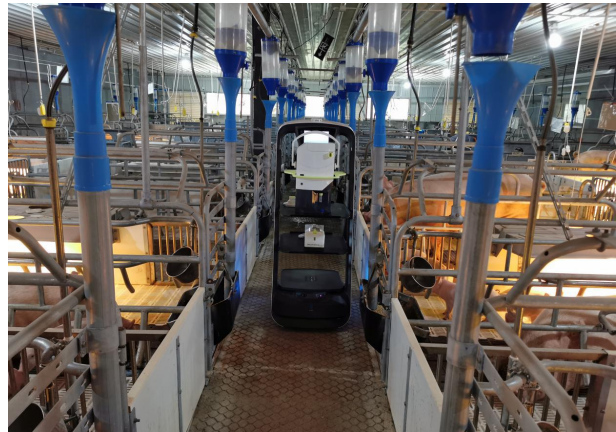




2. **Beijing Chaoyang Center for Disease Control and Prevention** take sampling at the quarantine point.



3. **The Chinese Academy of Agricultural Sciences** take sampling on pig farms.



4. **Peking University** take sampling at the epidemic area in Wuhan.



5. **Guizhou Medical University** take sampling at railway station

