

ZR-6012 Aerosol Photometer

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Overview



ZR-6012 Aerosol photometer is used to test whether there is leakage on HEPA filter. According to the principle of light scattering, it is portable, yet rugged for in-situ filtration system integrity testing.

The instrument conforms to NSF49 / IEST / ISO14644-3, could realize rapid detection of upstream and downstream concentration detection and real-time display leakage on the host and handheld device, and could find leaking position rapidly and accurately.

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Standard



- NSF/ANSI 49-2019 Biosafety cabinetry
- ISO14644-3:2005 Cleanrooms and associated controlled environments—Part 3:Test methods
- GB 50073-2013 Code for design of clean workshop
- GB 50591-2010 Code for construction and acceptance of cleanroom
- GMP Factory and device
- YY0569-2005 Biosafety cabinet
- JJF 1815-2020 Calibration specification for class II biosafety cabinet



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Applications



Medical facilities and cleanrooms



Biosafety cabinets and fume hoods



Independent filter certifiers



Pharmaceutical manufacturers

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Features



- ✓ Powerful function:
 - ◆ Stable digital photometer.
 - ◆ Dynamic Range: 0.0001μg/L~700μg/L
- ✓ Good human-computer interaction:
 - ◆ 5.0-inch color screen , touch operation.
 - ◆ Lightweight, portable and equipped with suitcase, easy to carry.
 - ◆ The handheld device is equipped for hard to reach areas, easy to control, display and sample.
 - ◆ Built-in battery ((optional) ≥3.5H
- ✓ Data query:
 - ◆ USB & Printer available for real-time reporting.
 - ◆ Audit Tracing & assign permissions to users, further guarantee data integrity.
 - ◆ Sampling data can be imported to PC.
- ✓ Automatic reminder:
 - ◆ When exceed the set value, light & voice alarm.
 - ◆ Inform you to replace the high efficiency filter.
 - ◆ Self protection in case of failure.

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Technical Parameter



Parameter	Range	Accuracy
Sampling flowrate	28.3L/min	±2.5%
Dynamic Range	(0.0001~700)μg/L	
Leakage detection	0.0001%~100%	
Sensitivity	1% of readings > 0.01% to 100%	
Repeatability	0.5% of readings > 0.01% to 100%	
Data storage	100000 groups	
Environment temperature	(10~35) °C	
Environment humidity	5%-85% (No condensation、No icing)	
Storage requirements	(-10-40) °C No condensation when relative humidity lower than 85%.	
Aerosol support	PAO , DOP etc.	
Power supply	AC220V±10% , 50/60Hz	
Size	(length 300×width 330×height 184)mm	
Weight	About 8kg(Battery included) About 14kg(Packing box included)	
Power consumption	<200W	

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Optional Accessory



When detecting the leakage of high-efficiency filter, you need to cooperate with **aerosol generator**. It emits aerosol particles with different sizes, and adjusts the aerosol concentration as required to make the upstream concentration reach 10 ~ 20ug / ml. Then the aerosol photometer will detect and display the concentration of the particle mass.