

ZR-4001 Airflow Pattern Visualizer (AFPV)

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Overview



Airflow Pattern Visualizer (AFPV) is an excellent equipment for generating fog compliantly within our sterile cleanrooms and is incredibly easy and safe to use. AFPV can generate 1-10 μm Water mist to visualize the airflow and observe the movement, judge whether there are vortices and turbulence.



Semiconductor Clean Rooms



Pharmaceutical Industry



Bio-Safety Cabinets



Scientific Research

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Standard

- GMP
- ISO 14644
- IEST-RP-006.3, 2012
- Pharmaceutical USP 797 Guidelines
- NSF 49 National Safety Foundation



ES France - Département Bio-tests & Industries
127 rue de Buzenval BP 26 - 92380 Garches



Tél. 01 47 95 99 90
Fax. 01 47 01 16 22



e-mail : bio@es-france.com
Site Web : www.es-france.com

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Features



Biosafety cabinet & clean room, Air flow balance test, Testing of exhaust system for chemical treatment equipment, Verification of personnel safety evacuation system, Pressure balance inside and outside the room, Leakage testing of air ducts.

- ✓ Portable, built in lithium battery.
- ✓ Adjustable air speed and density even during use.
- ✓ Works with deionized water (DI Water) and purified water (WFI-Water).
- ✓ Quick and easy water recharge.
- ✓ Excellent visualization for fog flows up to 3-5 feet.
- ✓ If the water level drops to a low level, the sensor is automatically protected, ensure long life and reliability.

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Technical Parameter

Parameter	Range
Generate particle size	(1-10) μ m
Visible Fog Distances	3-5 feet (1-2m)
FOG Type	Pure Fog using DI Water, WFI Water
FOG Duration	≥ 60 min
Water consumption rate	≤ 10 mL/min
Fog output rate	≤ 0.216 m ³ /min
Length of fog probe	Can be extended to 1.2m
Battery	≥ 60 min
Noise	< 60 dB
Host Size	262×172×227mm
Host Weight	3.2kg
Consumption	≤ 120 W
Working condition	Temperature (0~50) °C
	Humidity (0~85%) RH
	Power Supply AC (220±22) V, (50±1) HZ
	Pressure (60~130) kPa

