

ZR-4001 Airflow Pattern Visualizer (AFPV)

01

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

02

Standard

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

03

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.

04

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	≥60min	
Water consumption rate	≤10mL/min	
Fog output rate	≤0.216m ³ /min	
Length of fog probe	Can be extended to 1.2m	
Battery	≥60min	
Noise	<60dB	
Host Size	262×172×227mm	
Host Weight	3.2kg	
Consumption	≤120W	
Working condition	Temperature	(0~50) °C
	Humidity	(0~85%) RH
	Power Supply	AC (220+22) V, (50+1) HZ
	Pressure	(60~130) kPa