BIOBASE®

Air flow Tester

Introduction:

The Air flow Tester is a cost-effective diagnostic instrument. Leveraging ultrasonic atomization technology, it converts deionized water into a dense mist composed of 1~10 μm droplets. Propelled by an external air stream, the mist is discharged through a smoke tube as a highly visible plume, this enables direct, precise visualization of airflow patterns and turbulence in cleanrooms and other controlled environments.

Features:

* Continuous smoke output of ≥ 30 minutes at optimal fill level.
* Extendable smoke tube (up to 3 meters) for generating a uniform curtain-shaped plume.
* Ultra-low noise design, ensuring laboratory-quiet operation.
* One-touch start functionality, no additional setup required.
* Ultra-pure aerosol, featuring residue-free and non-contaminating properties.
* Validated for airflow visualization applications in ISO Class 1~10,000 cleanrooms.

Applications:

* Visualization and validation of laminar airflow in cleanrooms.
* Confirmation of airflow balance and direction.
* Performance testing of exhaust systems for chemical processing equipment.
* Verification of personnel safety ventilation systems.
* Assessment of differential pressure balance between rooms.
* Rapid leak detection in ductwork.

Technical Parameters:

Model	BK-AF09
Optimal Single-fill Water Volum	Up to the indicated level(3000ml)
Atomization Module Power Supply	DC 45V
Aerosol Output	7,000 ± 500ml/h
Droplet Size	1~10μm
Smoke Delivery Rate	1.3m³/min
Optimal Water Level for Atomization	28mm
Plume Height	100~150mm
Acceptable Water Conductivity	0.15~1.00 ms/cm
Consumption	350W
Power Supply	AC220V,50/60Hz(Standard); AC110V,60Hz(Optional,external transformer)
External Size(W*D*H)	200*300*270mm
Package Size(W*D*H)	Main Instrument: 300*350*350mm; Accessories: 135*135*935mm
Net Weight	7.3kg
Gross Weight	Main Instrument: 11.5kg; Accessories:2kg