

# DATA SHEET: YWF-01 Fog Generator

High-Performance Pure Water Nebulizer for Airflow Visualization

## 1. PRODUCT OVERVIEW

The **YWF-01** Fog Generator is a professional-grade pure water nebulizer designed to visualize airflow patterns in controlled environments. Utilizing ultrasonic atomization technology, it transforms DI water or purified water into a dense, high-volume mist (1–10  $\mu\text{m}$ ). The mist is then exhausted through a specialized delivery pipe under external pressure, providing an intuitive and clean method for airflow mapping and smoke testing in cleanrooms and containment systems.

## 2. KEY FEATURES

- Clean Visualization:** Produces a thick, white fog using only pure water, ensuring no residue or contamination in sensitive environments.
- Ultrasonic Technology:** High-frequency ultrasonic vibration creates consistent micro-droplets for stable and long-lasting fog.
- Intuitive Airflow Mapping:** Ideal for visualizing air turbulence, laminar flow stability, and pressure imbalances in cleanrooms.
- Adjustable Output:** Capable of generating large volumes of mist to suit various room sizes and testing requirements.
- Durable Construction:** Built with materials compatible with high-purity water, ensuring a long service life and minimal maintenance.
- Safety First:** Non-toxic and non-corrosive fog makes it safe for both equipment and operators during extended testing periods.

## 3. TECHNICAL SPECIFICATIONS

Feature	Specification
Principle	Ultrasonic Atomization
Droplet Size	1 – 10 $\mu\text{m}$
Mist Capacity	$\geq 3000$ ml/h
Working Medium	DI Water or Purified Water
Water Tank Capacity	4.0 L
Continuous Operation	> 1 hour
Noise Level	$\leq 55$ dB

Feature	Specification
Housing Material	ABS / Plastic
Power Supply	AC 220V / 50Hz
Dimensions (LWH)	260 × 260 × 380 mm
Net Weight	3.5 kg

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## 4. APPLICATIONS

- **Cleanroom Validation:** Smoke testing to confirm laminar flow patterns in Grade A/B zones.
- **HVAC Testing:** Visualizing airflow distribution and identifying "dead zones" in ventilation systems.
- **Biosafety Cabinets:** Verifying containment and inflow/outflow stability.
- **Research & Development:** Aerodynamic studies and environmental flow visualization in laboratories.

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## 5. STANDARD ACCESSORIES

- YWF-01 Main Unit
- Fog Delivery Hose Kit
- Power Cable
- **Factory Calibration Report**
- User Manual

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**Manufactured by:**  
**Honri Airclean Technology (Suzhou) Co., Ltd.**