

# DATA SHEET: HRF-5C Thermal Aerosol Generator

High-Capacity Heating System for Large-Scale HEPA/ULPA Testing

## 1. PRODUCT OVERVIEW

The **HRF-5C** is a high-performance thermal aerosol generator designed by Honri for the professional integrity testing of ultra-large capacity filtration systems. Featuring an advanced oil-circuit safety system and high-efficiency heat exchange technology, it provides a stable polydisperse aerosol challenge for systems with airflows up to 65,000 CFM.

## 2. KEY FEATURES

- High-Volume Output:** Ideal for large-scale HVAC and industrial filter bank certification (1,500 - 65,000 CFM).
- Enhanced Safety:** Equipped with an exclusive "Oil Route Insurance Supply System" to prevent operational hazards.
- Inert Gas Operation:** Uses Nitrogen, Argon, or CO2 as carrier gas (50 psi) for safe thermal generation.
- Superior Stability:** Engineered for long-duration testing with high consistency in particle size and density.
- Industrial Build:** Rugged enclosure with a portable footprint (14 kg), optimized for field service technicians.

## 3. TECHNICAL SPECIFICATIONS

Feature	Specification
Aerosol Method	Thermal / Heating
Airflow Range	1,500 - 65,000 CFM (42 - 1,839.5 m <sup>3</sup> /min)
Aerosol Concentration	100 µg/L @ 6,500 CFM
Aerosol Agents	PAO, DOP, Polydisperse Particles
Carrier Gas	Nitrogen, Argon, CO2, or Helium
Gas Pressure	50 psi
Power Supply	AC 220-240V, 50/60 Hz
Dimensions (LWH)	280 × 390 × 300 mm
Weight	14 kg (30.9 lbs)

## 4. APPLICATIONS & COMPLIANCE

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- **HVAC Validation:** Large AHUs and negative pressure filtration units.
  - **Pharma & Healthcare:** Operating rooms, laminar flow suites, and glove boxes.
  - **Standards Compliance:** Designed for compliance with ISO 14644-3 and GMP requirements.
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## 5. STANDARD ACCESSORIES

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- Integrated Heat Exchange System
  - Pressure Monitoring Gauges
  - Heavy-Duty Power Cord
  - **Quality Inspection Certificate**
  - User Manual
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**Manufactured by:**  
**Honri Airclean Technology (Suzhou) Co., Ltd.**