

# DATA SHEET: GK-01 High Pressure Diffuser

Safe and Reliable Decompression Solution for High-Pressure Gas Sampling

## 1. PRODUCT OVERVIEW

The **GK-01** High Pressure Diffuser is engineered to meet the stringent requirements of the latest GMP specifications. It is designed to adapt high-pressure gas sources (30–150 psi) for safe sampling by airborne particle counters and microbial air samplers. By providing effective decompression and uniform flow diffusion, it ensures stable and accurate measurement of inert gases such as Nitrogen and Helium. Utilizing high-quality imported core components, the GK-01 offers a secure and quiet solution for cleanroom gas testing.

## 2. KEY FEATURES

- **Wide Pressure Range:** Effortlessly adapts input pressures from 0.1 MPa to 1.0 MPa (30–150 psi).
- **Inert Gas Compatibility:** Specifically designed for use with compressed Air, Nitrogen (N<sub>2</sub>), Helium (He), and Argon (Ar).
- **User-Friendly Control:** Integrated flow meter and pressure regulating valve located on the front panel for easy adjustment.
- **Low Noise Operation:** Engineered for quiet performance, maintaining a noise level below 60 dB(A).
- **Durable Construction:** Built with a high-grade SS304 stainless steel enclosure, suitable for sterile pharmaceutical environments.
- **Rapid Self-Purification:** Streamlined internal gas path allows for quick purging and cleaning between samples.

## 3. TECHNICAL SPECIFICATIONS

Feature	Specification
Model	GK-01
Input Pressure Range	0.1 ~ 1.0 MPa (30 ~ 150 psi)
Compatible Gases	Compressed Air, Nitrogen (N <sub>2</sub> ), Helium (He), Argon (Ar)
Noise Level	< 60 dB(A)
Housing Material	SS304 Stainless Steel
Compatible Instruments	28.3, 50, or 100 LPM Particle Counters / Microbial Samplers
Dimensions (LWH)	182 × 352 × 300 mm
Net Weight	5.7 kg

## 4. APPLICATIONS

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- **Cleanroom Certification:** Sampling high-pressure gas lines in Grade A/B zones.
  - **Pharmaceutical Manufacturing:** Validating the purity of compressed gases used in production.
  - **Biotechnology:** Monitoring microbial and particulate levels in inert gas supplies.
  - **Electronics Industry:** Testing ultra-pure gas systems for semiconductor fabrication.
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## 5. STANDARD ACCESSORIES

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- GK-01 High Pressure Diffuser Unit
  - High-Pressure Inlet Connection Kit
  - Out-let Sampling Tubing
  - **Factory Calibration Report**
  - User Manual
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**Manufactured by:**  
**Honri Airclean Technology (Suzhou) Co., Ltd.**