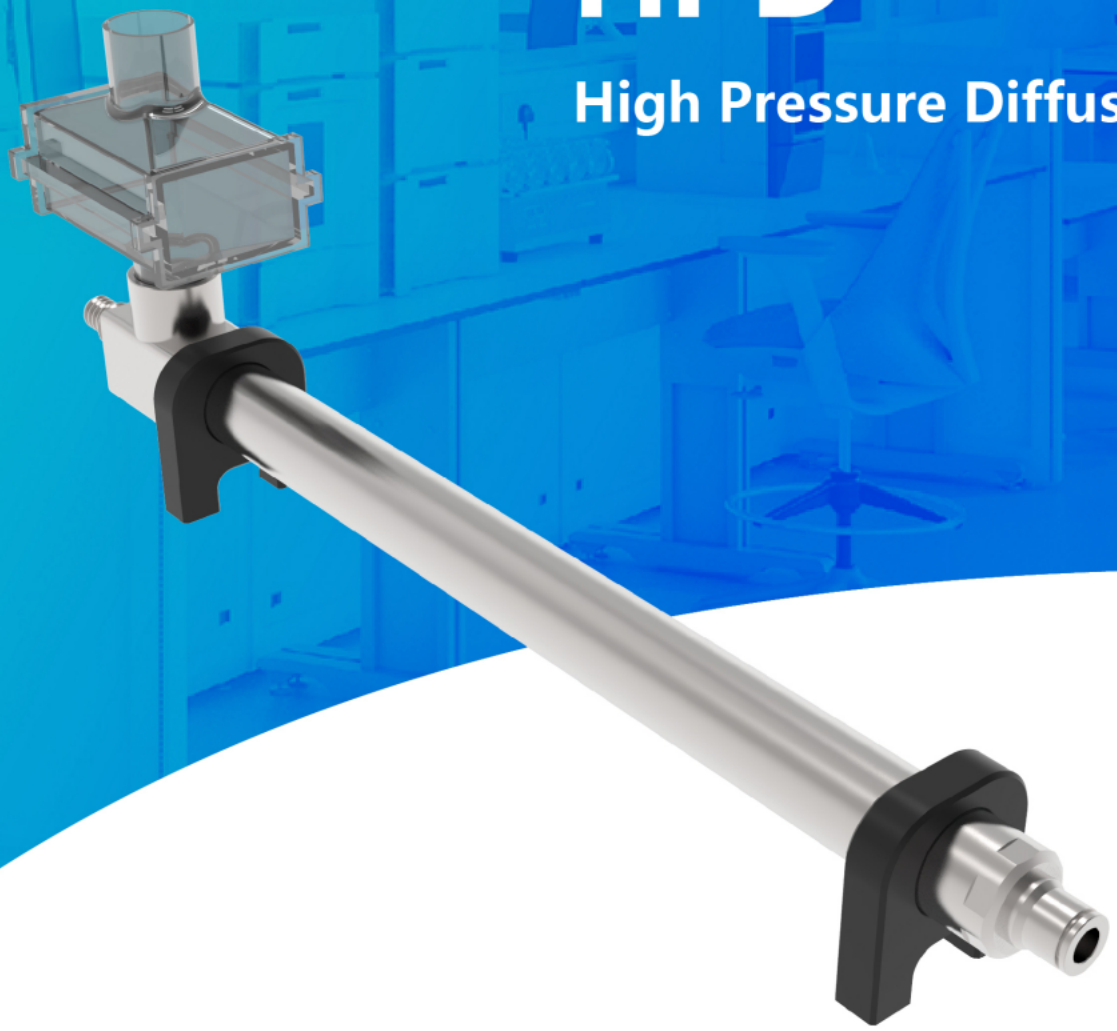
MICRONVIEW

Certified with: CE

HPD

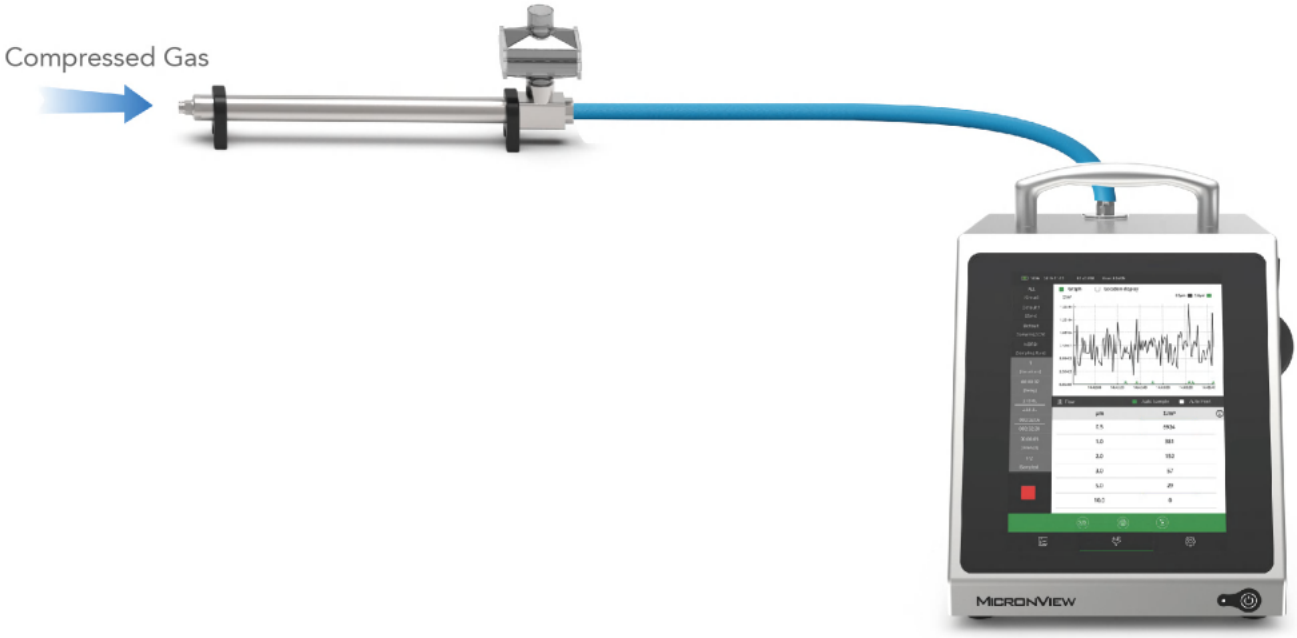
High Pressure Diffuser



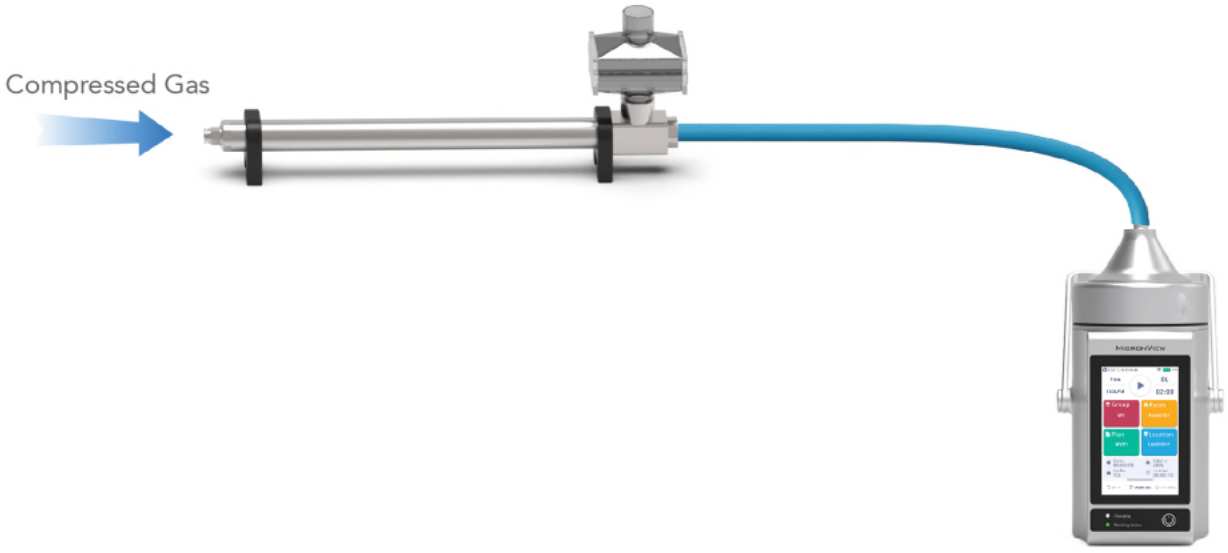
When compressed gas is sampled, the High Pressure Diffuser (HPD) decompresses the compressed gas to atmospheric pressure in real-time and delivers it to the back-end sampling device. The HPD can be coupled with Airborne Particle Counter (APC), BioAerosol Sampler (BAS) and any other active sampling devices for sampling or detection. The HPD is suitable for sampling non-inflammable and non-toxic clean, compressed gases, such as dry air, nitrogen, argon, carbon dioxide, etc.

Application

Compressed gas is decompressed to atmospheric pressure by the High Pressure Gas Diffuser and transported to the back-end sampling/detection device for sampling or detection.



Application1：Compressed gas particle detection



Application2：Compressed gas microbial detection

Feature

- Compliant with ISO 8573-4: 2019-Contaminant measurement -Part 4: Particle Content
- Exhaust filter to reduce cross-contamination
- Gas types: Air, N_2, CO_2, Ar, O_2 and other inert gases
- Compatibility: compatible with Airborne Particle Counter (APC), BioAerosol Sampler (BAS)

Specification Sheet

Specification	High Pressure Diffuser I HPD
Gas type	Air, N_2, CO_2, O_2, Ar and other inert gases.(Only for use in non-flammable and non-explosive areas)
Flow rate	100LPM; 50LPM; 28.3LPM
Inlet Pressure	1.5-8bar
Inlet tube diameter	OD: 8mm
Outlet tube diameter	ID: 10mm/14mm
Dimension	15.51(H) x 2.32(W) x 5.43(D) inches; 394(H) x 59(W) x 138(D) mm(includes HEPA)
Weight	0.89kg(1.97lbs)
Material	External: 316L stainless steel body; O-ring: nitrile rubber
Operating conditions	Temperature: 5°C-30°C, relative humidity ≤80%, no condensation
Storage conditions	Temperature: 0°C-40°C, relative humidity ≤80%, no condensation
Warranty	2 years

Ordering Information

Name	Model	Order No.
High Pressure Diffuser | HPD	H110	MACHH110

MICRONVIEW

Tel：1-520-528-1882

Email：mv@micronview.com

Website：http://www.micronview.com

Address：2300 Highway 365 Suite 110, Nederland TX 77627, USA

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