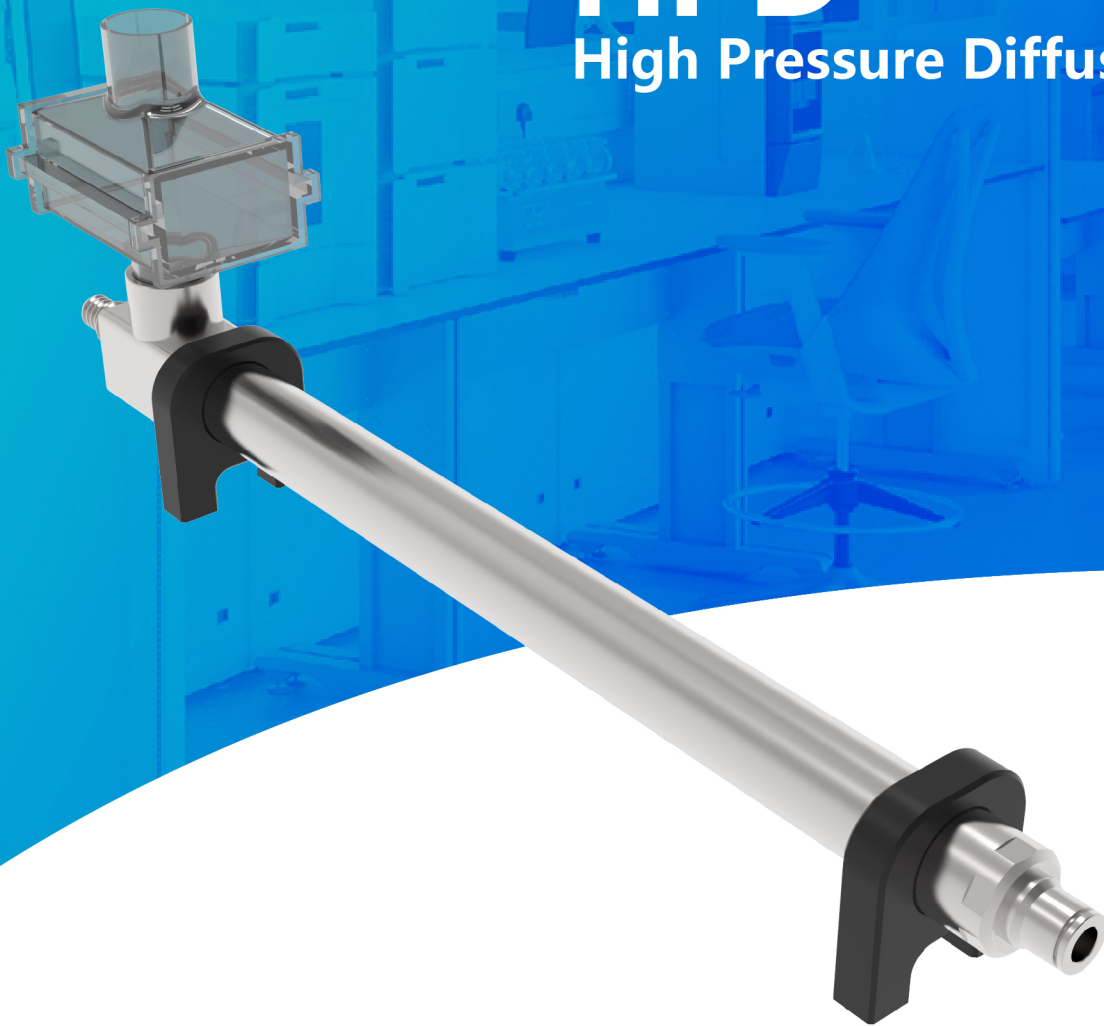


# HPD

## High Pressure Diffuser



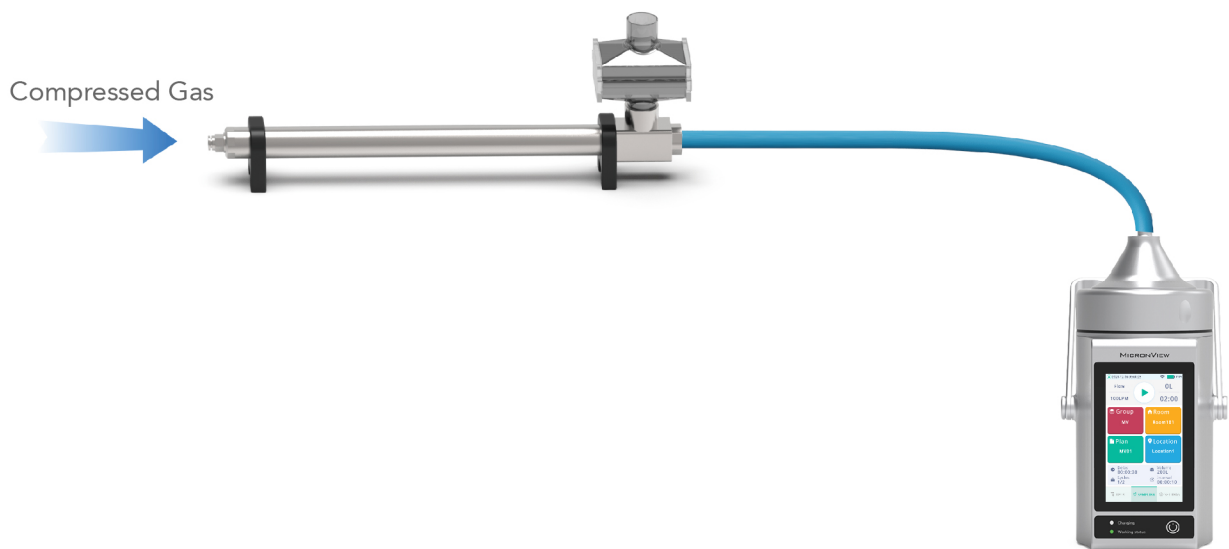
When compressed gas is sampled, the High Pressure Diffuser (HPD) decompresses the compressed gas to atmospheric pressure in real-time and delivers it to the back-end sampling device. The HPD can be coupled with Airborne Particle Counter (APC), BioAerosol Sampler (BAS) and any other active sampling devices for sampling or detection. The HPD is suitable for sampling non-flammable 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<sub>2</sub>, CO<sub>2</sub>, Ar, O<sub>2</sub> and other inert gases
- Compatibility: compatible with Airborne Particle Counter (APC), BioAerosol Sampler (BAS)



## Specification Sheet

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

## Ordering Information

Name	Model	Order No.
High Pressure Diffuser	H110	MACHH110