



EHPD | EHPD-ECO

Electric High Pressure Diffuser

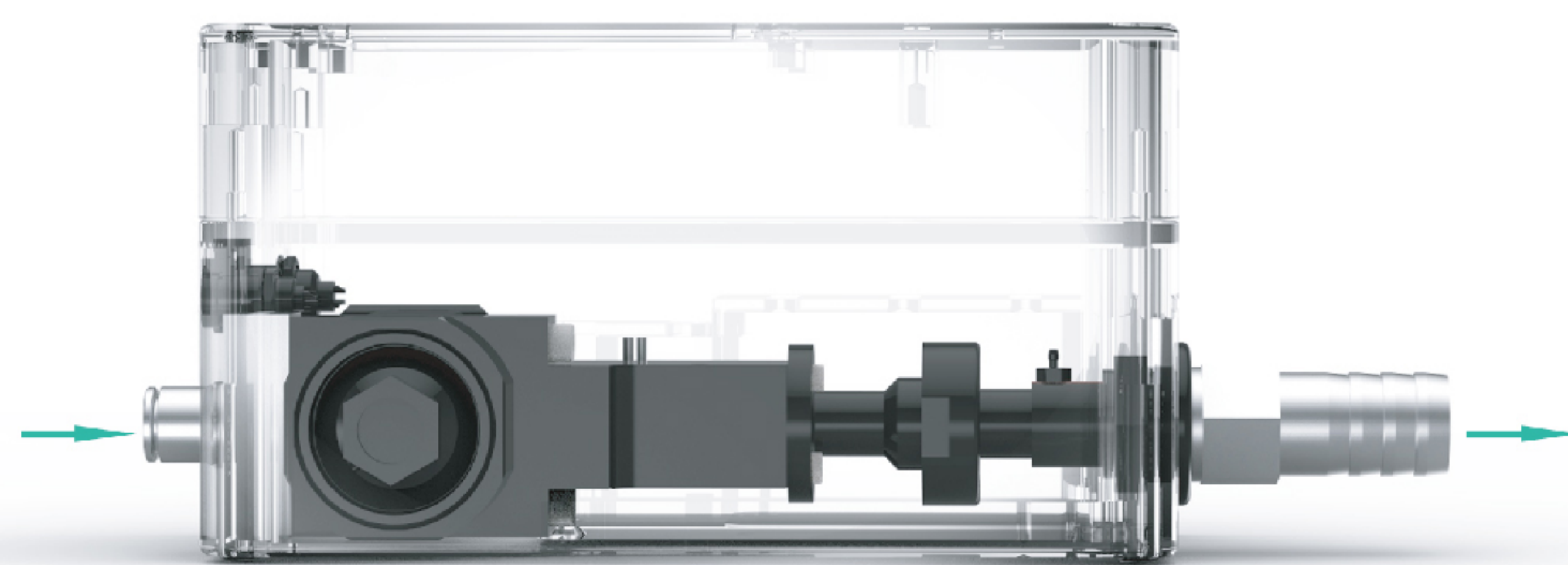
Electric High Pressure Diffuser-Economic

- Real automatic high pressure diffuser
- Flow rate: ≥ 2 LPM, accurate output depending on the needs of the sampling device

• Principle

Operation process of Electric High Pressure Diffuser (EHPD): When the back-end sampling device begins to sample, the compressed gas to be tested is decompressed to atmospheric pressure dynamically, in real time, and is delivered to the device. When the sampling device stops, the EHPD closes the gas output automatically.

The EHPD can be coupled with particle counter, air sampler and any other active sampling devices for detecting and analyzing the atmosphere, nitrogen, carbon dioxide, argon, oxygen and other inert gases under high pressure, only use in non-flammable and non-explosive area.



Note: Path of cleaning mode

• Features

High compatibility

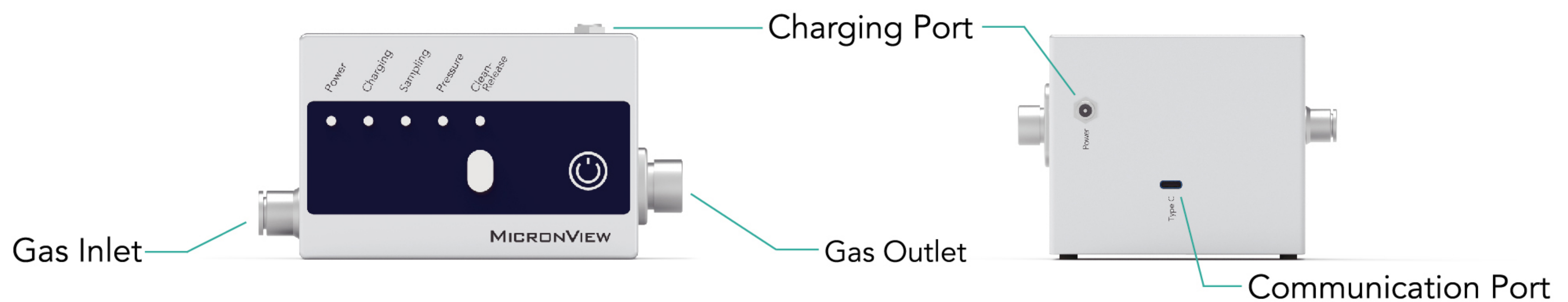
Compatible with most brands of airborne particle counters and bioaerosol samplers with different flow rates and any other types of active gas sampling devices.

Accurate and reliable

The built-in differential pressure manometer and electromagnetic valve can provide accurate gas volume for the back-end detecting device.

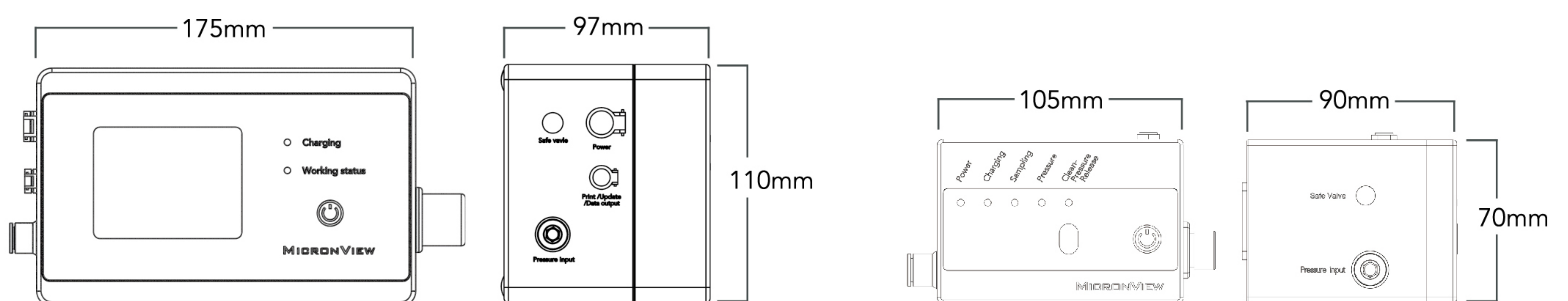
No overflow

The output volume is equal to the required sampling volume.



• Product specification

Specification	Size (WxHxD) /mm	Weight /lbs	Working Pressure /Bar
EHPD	110 (H) x 175 (W) x 97 (D) mm (with foot mat)	4lbs	2-10bar
EHPD-ECO	105 (H) x 70 (W) x 90 (D) mm (with foot mat)	1.98lbs	1-7bar



Specification Sheet

Specification	Electric High Pressure Diffuser EHPD	Electric High Pressure Diffuser-Economic EHPD-ECO
Electric	Air, N ₂ , CO ₂ , Ar, O ₂ and other inert gases (only for non-flammable and non-explosive areas)	
Flow rate	≥2LPM	
Inlet relative pressure	2-10bar	1-7bar
Inlet tube diameter	ID 5mm, OD 8mm	
Outlet tube diameter	ID 6mm, 8mm, 12mm, 14mm, 16mm, 20mm selectable	
Dimensions	110 (H) x 175 (W) x 97 (D) mm (with foot mat)	105 (H) x 70 (W) x 90 (D) mm (with foot mat)
Weight	1.8kg (4lbs)	0.91kg (1.98lbs)
External surface	Anodized aluminum	
Power	24 V±10% AC adapter	
Battery	10.8 V, 6800 mAh rechargeable lithium battery, battery life over 6 hours	3 × 3.7 V, 3100 mAh rechargeable lithium battery, battery life over 6 hours
Communication	USB	TYPE C
Data storage	240 set	N/A
Display	3.5" LCD touch screen	N/A
Language	Chinese, English	N/A
Max power consumption	6.2W	3.3W
Operating conditions	Temperature: 5°C-30°C, relative humidity up to 80%	
Storage conditions	Temperature: 0°C-40°C, relative humidity up to 80%	
Safety	EN 61010-1:2010, EN 61326-1:2013, EN 61326-2-2:2013	N/A
Warranty	2 years after activation	

Ordering Information

Name	Model	Order No.
Electric High Pressure Diffuser EHPD	E110	MACHE110
Electric High Pressure Diffuser-Economic EHPD-ECO	E310	MACHE310

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