



ISOKINETIC HIGH PRESSURE DIFFUSER
HPD Ported/Vented

The **HPD** (high pressure diffuser) accessory was designed for use with Lighthouse Handheld, Solair, and ApexZ airborne particle counters in applications where the sample is under pressure.

Standard applications include the sampling of CDA, nitrogen, and other inert gases.

Available in vented or ported versions, the configuration is determined by the excess sample gas being vented into the test area (vented model) or exhausted outside of the test area (ported model).

Features

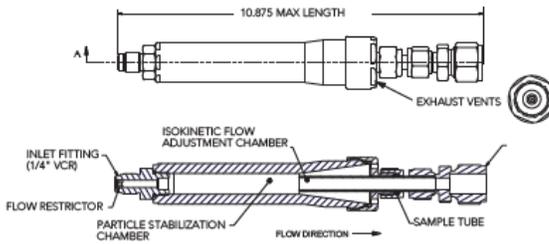
- Allows Sampling of Inert Pressurized Gases
- 0.1, 1.0, 2.0, 3.5 CFM Models Available
- Pressure Ranges From 5 - 150 PSI (depending on flow rate)
- Ported and Exhausted Versions Available
- Compatible with Handheld, Solair and ApexZ Instruments
- 2 year warranty



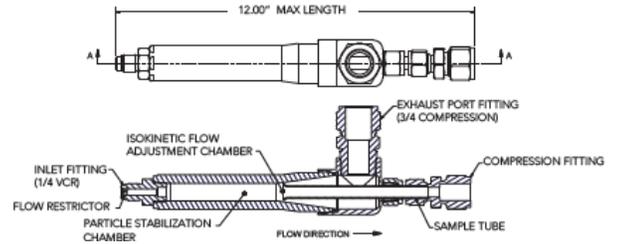
HPD Ported/Vented

ISO KINETIC HIGH PRESSURE DIFFUSER

High Pressure Diffuser Vented Version



High Pressure Diffuser Ported Version



Models

HPD Vented

HPD Ported

Diameter	1.30 (3.3 cm) at max diameter x 10.65" [27 cm] max length	1.30" (3.3 cm) at max diameter x 11.76" [29.9 cm] max length
Weight	1.1 lbs (0.5 kg)	1.50 lbs (0.68 kg)

Materials

Stainless steel with Nitrile (Buna-N) and fluorocarbon (Viton) o-rings

Flow Control

Metal orifice

Isokinetic Sampling Point

Adjustable over the inlet pressure range

Sample Fluid

Pressurized air, nitrogen and inert gases

Inlet Port

1/4" Metal gasket high purity VCR fitting

Outlet Port

Compression, union fitting

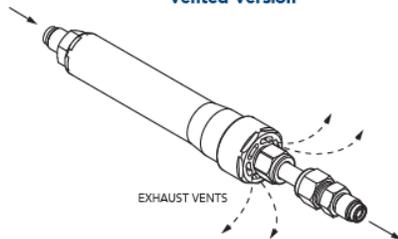
Cleanability

Easily disassembled and cleaned; replaceable o-rings

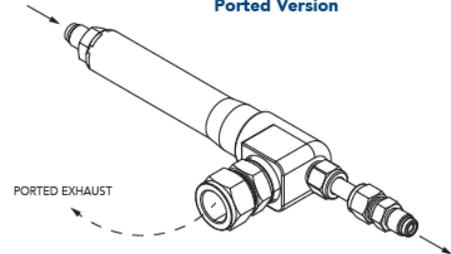
Particle Counter Compatibility

Blower Based	CFM(LPM)	Inlet Pressure Range	Tubing Size
ApexZ3	1.0(28.3)	30 - 150 Psi, (2.0 - 10.3 bars)	3/8"
ApexZ3	1.0(28.3)	7 - 30 Psi, (0.48 - 2.0 bars)	3/8"
ApexZ50(Ported)	3.5(100)	70 - 150 Psi, (4.8 - 10.3 bars)	1/2"
ApexZ50(Ported)	3.5(100)	30 - 70 Psi, (2.0 - 4.8 bars)	1/2"
ApexZ50(Ported)	3.5(100)	10 - 30 Psi, (0.69 - 2.0 bars)	1/2"
ApexZ50(Ported)	3.5(100)	5 - 10 Psi, (0.35 - 0.69 bars)	1/2"
Pump Based	CFM(LPM)	Inlet Pressure Range	Tubing Size
ApexP3	1.0(28.3)	30 - 150 Psi, (2.0 - 10.3 bars)	1/4"
ApexP5	1.0(28.3)	30 - 150 Psi, (2.0 - 10.3 bars)	1/4"
HH 2016, 3016, 5016	0.1(2.83)	30 - 150 Psi, (2.0 - 10.3 bars)	1/4"
Solair 3100, 5100	1.0(28.3)	30 - 150 Psi, (2.0 - 10.3 bars)	1/4"
Solair 3350	3.5(100)	70 - 150 Psi, (4.8 - 10.3 bars)	3/8"

Vented Version



Ported Version



Distributed by:

