



HIGH PRESSURE DIFFUSER



The **HIGH PRESSURE DIFFUSER** was designed for use with Lighthouse Airborne Particle Counters in applications where the sample is under pressure. Standard applications include sampling of CDA, Nitrogen and other inert gasses.

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). The High Pressure Diffuser will accept inlet pressures ranging from 30 to 150 psi (2 to 10.3 bar) and is available with a 1.0 or 0.1 CFM outlet flow to meet your application needs.

The 5-piece stainless steel design is constructed with replaceable Fluorocarbon (Viton) O-Rings for easy disassembly and cleaning or service.

**Designed and built by
Lighthouse - a name you can trust.**

Lighthouse is an ISO 9001:2008 Registered Company

www.golighthouse.com

Features:

- ★ Supports 0.1µm at 1 CFM
- ★ May be Used With Any Inert Gas
- ★ Stainless Steel Construction
- ★ Easy Set Up
- ★ Simple Installation
- ★ Fast Purge and Cleanup
- ★ Stainless Steel Construction

Benefits:

- ★ Output at Near Atmospheric Pressure
- ★ Small Footprint
- ★ Easy System Integration
- ★ International Sales and Service Support
- ★ Low Cost of Ownership

Applications:

- ★ Process Qualification
- ★ Semiconductor Process Monitoring
- ★ Flat Panel Process Monitoring
- ★ Process Trend Analysis



Specifications:

| | | |
|----------------------------|---|---|
| Description: | Isokinetic High Pressure Diffuser, Vented Version | Isokinetic High Pressure Diffuser, Ported Version |
| Materials: | Stainless Steel with Nitrile (Buna-N) and Fluorocarbon (Viton) O-Rings | Stainless Steel with Nitrile (Buna-N) and Fluorocarbon (Viton) O-Rings |
| Inlet Pressure Range: | 30 to 150 psi [2 to 10.3 bar] | 30 to 150 psi [2 to 10.3 bar] |
| Outlet Flow Rate: | 0.1 CFM or 1 CFM | 0.1 CFM or 1 CFM |
| Flow Control: | Metal Orifice | Metal Orifice |
| Isokinetic Sampling Point: | Adjustable over the Inlet Pressure Range | Adjustable over the Inlet Pressure Range |
| Sample Fluid: | Pressurized Air, Nitrogen and Inert Gases | Pressurized Air, Nitrogen and Inert Gases |
| Inlet and Outlet Ports: | 1/4" Metal Gasket High Purity VCR Fitting 3/8" Compression, Union Fitting | 1/4" Metal Gasket High Purity VCR Fitting 3/8" Compression, Union Fitting |
| Diameter: | 1.31" [3.3 cm] at large cap | 1.31" [3.3 cm] x 3.08" [7.8 cm] |
| Length: | 8.14" [20.7 cm] at the 30 psi setting and 9.87" [25.1 cm] at the 150 psi setting | 9.1" [23.1 cm] at the 30 psi setting and 10.83" [27.5 cm] at the 150 psi setting |
| Weight: | 1.11 lbs [0.5 kg] | 1.65 lbs [0.75 kg] |
| Cleanability: | Easily disassembled and cleaned; replaceable o-rings | Easily disassembled and cleaned; replaceable o-rings |

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NATA Accredited Laboratory

Manufactured by:

 **LIGHTHOUSE**
WORLDWIDE SOLUTIONS

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