



**LIGHTHOUSE**  
WORLDWIDE SOLUTIONS  
*Technology That Counts!*



## HIGH PRESSURE DIFFUSER



The **HIGH PRESURE 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](http://www.golighthouse.com)**

### **Features:**

- ★ Supports 0.1 $\mu$ m 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



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## Specifications:

<b>Description:</b>	Isokinetic High Pressure Diffuser, Vented Version	Isokinetic High Pressure Diffuser, Ported Version
<b>Materials:</b>	Stainless Steel with Nitrile (Buna-N) and Fluorocarbon (Viton) O-Rings	Stainless Steel with Nitrile (Buna-N) and Fluorocarbon (Viton) O-Rings
<b>Inlet Pressure Range:</b>	30 to 150 psi [2 to 10.3 bar]	30 to 150 psi [2 to 10.3 bar]
<b>Outlet Flow Rate:</b>	0.1 CFM or 1 CFM	0.1 CFM or 1 CFM
<b>Flow Control:</b>	Metal Orifice	Metal Orifice
<b>Isokinetic Sampling Point:</b>	Adjustable over the Inlet Pressure Range	Adjustable over the Inlet Pressure Range
<b>Sample Fluid:</b>	Pressurized Air, Nitrogen and Inert Gases	Pressurized Air, Nitrogen and Inert Gases
<b>Inlet and Outlet Ports:</b>	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
<b>Diameter:</b>	1.31" [3.3 cm] at large cap	1.31" [3.3 cm] x 3.08" [7.8 cm]
<b>Length:</b>	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
<b>Weight:</b>	1.11 lbs [0.5 kg]	1.65 lbs [0.75 kg]
<b>Cleanability:</b>	Easily disassembled and cleaned; replaceable o-rings	Easily disassembled and cleaned; replaceable o-rings

**laftech**

Call: 1300 306 002 [www.laftech.com.au](http://www.laftech.com.au)

LAF Technologies Pty Ltd

Head Office: 12 Royan Place, Bayswater North, VIC 3153 Australia



Accredited Laboratory

Manufactured by:



[www.golighthouse.com](http://www.golighthouse.com)  
[info@golighthouse.com](mailto:info@golighthouse.com)

Tel: 800 945 5905 (Sales and Service)  
541 770 5905 (Outside of USA)

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