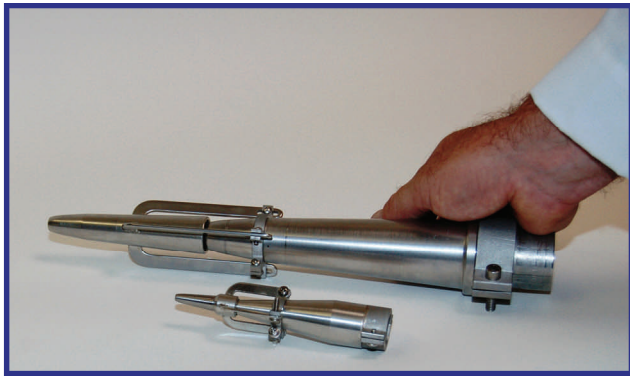


BMI offers a variety of aerosol sampling Inlet Systems tailored to meet your needs. Both aircraft and ground based systems are available.

Inlets are offered with or without isokinetic flow control, where the sample flow rate is automatically controlled to match the ambient air speed.

Performance is validated through wind tunnel testing and computational fluid dynamics modeling.



Inlet Diffuser Pairs: Models 1202 (165 lpm) & Model 1203 (30 lpm)



Inlet System Model 1200 installed on a research aircraft

Key Features:

- Aerodynamic, twin-diffuser
- Removal of turbulent boundary layer
- Pitot tube for ambient velocity measurements
- Automatic sample flow control to maintain isokinetic flow
- Inlet manifold designed to suit your sampling needs
- Sample pick-off ports for a user-specified number of instruments
- Pressure and temperature measurements of sample flow
- Integrated data system to control operation and record performance
- Blower, venturi or other vacuum pump to draw sample flow
- Wind tunnel tested and validated
- Counterflow Virtual Impactor Inlet System available for cloud droplet sampling
- Fully automated, hands-off operation

Typical Inlet System Configuration

