



When using a particle counter for filter integrity testing, filters and filter systems must be challenged with an excess of six million particles per cubic foot of air ( $2.1 \times 10^8$  per cubic meter). Most particle counters are capable of only counting up to 100,000 particles per cubic foot of air before experiencing significant coincidence counting (counting two or more small particles as one larger particle). It is necessary to know the filter aerosol challenge concentration in order to properly quantify defects. Thus a reliable aerosol dilution device is required.

Milholland & Associates NIST traceable aerosol dilutors have been refined and proven in over 20 years of actual cleanroom testing. They are designed specifically for low concentrations of Poly Alpha Olefin (PAO) or Polystyrene (PSL) microsphere aerosols and use capillary flow as the principle of operation. These units are very durable and drift free. They do not rely on electronics, mass flow meters, transducers, or orifices.

Inquire about custom dilution ratios and OEM devices. We have provided two stage devices with dilution factors of up to 400,000:1, units with pressure transducers for computer interfacing, custom dilutors for 2.0 cfm particle counters, units compatible with VHP and Chlorine Dioxide sterilization, and other custom configurations. Contact us with your specific needs.

## Model ADS Aerosol Dilutors



### Features and Benefits

- High sample inlet/outlet flow rates reduce particle losses in sample tubing
- High sample inlet/outlet flow rates reduce sample delay to particle counters
- Single dilution value set to a constant standard flow rate
- Acetal thermoplastic quick connect fittings
- Poly propylene carrying case included
- Bev-A-Line sample tubing for low tubing particle losses (4 meters included)
- No electrical power required on standard models. Units can also be equipped with a pressure transducer.

### Technical Specifications

- For use with 1.0cfm (28.3lpm) controlled flow particle counters capable of overcoming 20 cm w.g. inlet resistance.
- 316 Stainless steel dilutor enclosure and dilutor body (11.25" L x 7" W x 5.25" D)
- Black polypropylene carrying case (19.75" L x 15.53" W x 7.48" D)
- Weight (dilutor body) 5.8lbs (2.6kg)
- Total weight with case and accessories 15lbs (6.8kg)
- Inlet/Outlet tubing 1/2" OD x 3/8" ID