



When using a particle counter for filter integrity testing, filters and filter systems are typically challenged with an excess of six million particles per cubic foot of air (2.1x10<sup>8</sup> per cubic meter). Many particle counters can begin to experience significant coincidence counting errors (counting two or more small particles as one larger particle) as particle concentrations approach 100,000 particles per cubic foot and greater. It is necessary to know the filter aerosol challenge concentration in order to properly quantify defects. Thus a reliable aerosol dilution device is required.

Our NIST traceable aerosol diluters 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 diluters 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 Diluters



## **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
- Hytrel lined 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 diluter enclosure and diluter body (11.25"L x7"W x 5.25"D)
- Black polypropylene carrying case (19.75"L x 15.53"W x 7.48"D)
- Weight (diluter body) 5.8lbs (2.6kg)
- Total weight with case and accessories 15lbs (6.8kg)
- Inlet/Outlet tubing 1/2" OD x 3/8" ID

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