

Aerosol Dynamics Inc.

935 Grayson St., Berkeley, CA 94710



ADI Neutralizer Housing

Specifications

The ADI neutralizer housing is designed to hold four (4) StaticMaster polonium sources to provide bipolar ion source for aerosol charge neutralization. It is based on the approach used by Prof. Benjamin Liu at the University of Minnesota. The ADI version has a 7 degree tapered inlet to ensure uniform flow with minimal particle losses within the charging region.

All internal parts are machined from 316 stainless steel. Endcaps are secured with 3 screws. Overall dimensions: 2.0" diameter x 12.125" long.

Polonium Sources

The StaticMaster polonium sources are not provided. These should be purchased directly from NRD, Model 2U500, 2937 Alt Blvd N., Grand Island NY 14072-1292. Phone 716-773-7634; Fax 773-7744. NRD will dispose of used sources at no charge.

References:

Covert, D., Wiedensohler, A., and Russell, L. 1997. Particle charging and transmission efficiencies of aerosol neutralizers. *Aerosol Sci. Technol.* 27, 206-214.

Liu, P. and Deshler, T. 2003. Causes of Concentration Differences Between a Scanning Mobility Particle Sizer and a Condensation Particle Counter. *Aerosol Sci. Technol.* 37, 916-923

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