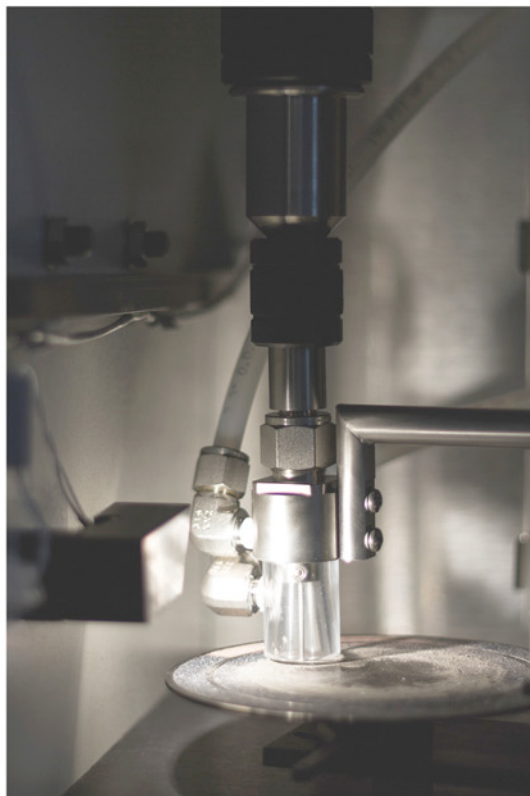


SPECIFICATION

- dispersion of solid particles of size ranging from $1\ \mu\text{m}$ to $50\ \mu\text{m}$ (aerodynamic diameter)
- Venturi tube flow rate is 16.5 litre/min
- output particle concentration from 0.3 to $40\ \text{mg/m}^3$
- flow rate of carrier gas ranging from 12 to 21 litre/min
- accessories: device for cleaning, dehumidification and pressure control of the input air



Small-scale powder disperser TSI - SSPD 3433

TSI Model 3433 Small-Scale Powder Disperser is a compact and portable device for dry dispersion of solid particles in gaseous environment. It employs a turntable with a Venturi tube for dispersion of small (milligrams) amounts of dry powder. A Venturi tube creates sufficient shear forces to deagglomerate entering aerosol particles. The disperser generates high quality and time-stable particle dispersion of a defined size range and concentration.



TYPICAL APPLICATIONS

- generation of aerosols for toxicological studies or for pharmaceutical industry
- generation of tracer particles for gas flow studies
- dispersion of calibrated particles (PSL) for validation measurements of particle sizers
- dispersion of powder particles for their size measurement
- re-dispersion of particles deposited on membrane filters intended for air quality monitoring
- generation of solid particles for research on deposition in environmental engineering

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