

SPECIFICATIONS  
BIPOLAR CHARGE ANALYZER  
BID #16-08

Jackson State University's Department of Industrial Systems and Technology needs to purchase a Bipolar Charge Analyzer (BOLAR). The BOLAR should be capable of measuring bipolar electrical charge size distribution of inhalation aerosols. It should be able to separately detect positively and negatively charged particles in five different particle size fractions. After the charge measurement, negatively and positively charged particles can also be analyzed enabling the determination of charge to mass ratio in different particle size fractions.

In addition, it should feature:

- Real-time measurement
- Analysis of collected particles, positively and negatively charged particles separately
- Automated self-check before each measurement
- Automated measurement sequence
- Stand-alone operation
- Sample flow rate 30-90 lpm
- Standard USP inlet connection
- Large display with user interface
- Data stored on a USB drive
- Easy data analysis options for reviewing and analyzing charge and mass data

The Bipolar Charge Analyzer needs to include the following accessories:

- Pump to operate the BOLAR
- Inhaler device holder
- Impactor collection cup grease
- Filter