

MEPNN Supplier Scouting Opportunity Synopsis

Item Information

Scouting Number	2023-076
Item to be Scouted	Aerosol Particle Measurement System
Days to be scouted	30
Description	real-time aerosol particle size distribution and and concentration measurement system from 6 nm to 10 microns.
State item to be used in	North Carolina

Contact Information

Email	ratliff.katherine@epa.gov
First Name	Katherine
Last Name	Ratliff
Department / Company / MEP Center	Environmental Protection Agency, U.S.
Bureau / Division / MEP Center Regional Office	Office of Research and Development (ORD)

Supplier Information

Type of supplier being sought	Distributor
Reason	New product startup

Summary of technical specifications and performance requirements

Describe the manufacturing processes (elaborate to provide as much detail as possible)	Electronic and mechanical assembly. The specialized research-grade equipment provides real time aerosol particle size distribution and concentration over a wide range of particle sizes, from 6 nanometers (nm) to 10 microns (μm). It is the only instrument available that operates in such a broad particle size range using only one measurement technique. Its software provides calculations for expected size distributions over 500 size bins. In addition, its 14-stage impactor allows for chemical or biological analysis and classification of aerosols sampled after real-time air concentration and size measurements. The unit is approximately 30 cm x 15 cm x 30 cm in size and, because it is portable, robust, and and can be operated under a wide range of environmental conditions, can be used in both laboratory or field studies.
Provide dimensions / size / tolerances / performance specifications for the item	Real-time particle size distribution and concentration measurements from 6 nm to 10 μm with 14-stage impactor for sample analysis
List required materials needed to make the product, including materials of product components	High Resolution measurement Package (includes analysis analysis plates, software, and firmware); sensor Sintered Plate Collection Set; Dry Scroll Pump for the sensor
Are there applicable certification requirements?	No
Are there applicable regulations?	No
Additional Technical Comments	This instrument is unique in its capabilities. No other instrument can provide real-time aerosol measurements across this wide range of aerosol particle sizes and retain samples for post-analysis collection.

Volume and Pricing

Estimated potential business volume	One unit
Estimated target price / unit cost information (if unavailable explain)	\$106,530

Delivery Requirements

When is it needed by?	Immediate
Describe packaging requirements	as packaged and shipped by manufacturer
Where will this item be shipped?	Research Triangle Park, North Carolina

Additional Comments

Is there other information you would like to include?