

ITEM OPPORTUNITY SYNOPSIS

Scouting Number:	2024-223
Name of the item to be scouted:	Ozone Generator
State item to be used in:	None

Describe the Item:

<p>Please describe the item application/the end use of the item.</p>	<p>The National Oceanic and Atmospheric Administration (NOAA), Oceanic and Atmospheric Research (OAR), Earth Systems Research Laboratories (ESRL), Chemical Sciences Laboratory (CSL) has multiple ozone measuring research instruments and conducts projects that require measurement of ozone from the surface to the stratosphere. Ozone is an important trace gas species in Earth’s atmosphere. The ozone layer in the stratosphere is critical for protecting Earth’s surface from harmful UV radiation, while at the surface ozone is a criteria air pollutant which negatively impacts both human health and the environment (e.g. crop production). Due to the strong gradient in ozone mixing ratios between the upper troposphere (UT) and lower stratosphere (LS), ozone is also a critical measurement for characterizing the atmospheric state in UTLS studies. A primary standard (PS) ozone generator is necessary to regularly calibrate these instruments to ensure research data quality.</p>
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Supplier Information:

Type of Supplier Being Sought (select from the list below):

Manufacturer	x
Contract Manufacturer	
Distributor	
Other (Please Specify)	

Reason for Scouting Submission (select from the list below)

2nd Supplier	
Price	
Re-Shore	
Past supplier no longer available	
New Product Startup	
BABA	x
Other (Please Specify)	

Summary of Technical Specifications and Performance Requirements:

Describe the manufacturing processes (elaborate to provide as much detail as possible)	Electronic Assembly see attached specs sheet
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<p>Provide dimensions / size / tolerances / performance specifications of the item</p>	<p>Any offered products must be fully compatible (form, fit, and function) with the Swissgas Sonimix 4001. The LNI Swissgas Sonimix 4001 is a stand-alone ozone primary transfer standard able to generate ozone together with dry or wet air allowing it to calibrate the ozone monitors in several points. The instrument uses a pressure regulator, sonic nozzles, and an ozone generator including thermostatisation and regulation by UV light photometer measurement with atmospheric pressure and temperature corrections. It is built with 1 reference UV light detector that measures the UV intensity in alternance without any ozone, and through the generated ozone. General Specifications: Range: From 10ppb to 10 ppm @ 3 L/min + 10ppm to 35 ppm @ 0.9 L/min Dilution principle: Sonic nozzles and high precision pressure regulators Dilution air: Dry air from internal zero air (option) or external dry air source Generated gas flow: 900ml/min for range 2 Accuracy: 10 ppb to 100 ppb: +/- 2 ppb; >100 ppb: 1.5% relative Ozone repeatability: Better than 1% relative Warm up time: < 45 minutes Stabilization time: < 15 minutes O3 regulation: Measure of the UV light absorption of the generated ozone by UV reference photometer. (US EPA method and Beer Lambert law).Including atmospheric pressure and room temperature corrections Dimensions: 19cm x 36cm, 50cm deep Net weight: 15 Kg UV Section: UV lamp life time: About 10'000 hours (with a mean concentration of 1 ppm) Zero Air Section: Life time: Annual preventive maintenance Quality: O3, NO and NO2 < 1 ppb – H2O < -40°C dew point Communication: Outlet port: Teflon 1/4" Swagelok fitting Electrical Data: Power supply voltage: 230V/50-60Hz – 117V/60Hz – 100V/60Hz</p>
<p>List required materials needed to make the product, including materials of product components, if applicable</p>	<p>See attached specs sheet</p>
<p>Are there applicable certification requirements?</p>	
<p>Yes</p>	
<p>No</p>	<p style="text-align: right;">x</p>
<p>Please explain:</p>	
<p>Are there any applicable regulations that apply to the production of this item?</p>	
<p>Yes</p>	
<p>No</p>	<p style="text-align: right;">x</p>
<p>Please explain:</p>	
<p>Are there any other standards / requirements?</p>	
<p>Yes</p>	
<p>No</p>	<p style="text-align: right;">x</p>
<p>Please explain:</p>	
<p>NAICS CODES:</p>	
<p>NAICS 1</p>	<p>334516 Analytical laboratory instrument manufacturing</p>
<p>NAICS 2</p>	
<p>Additional Comments:</p>	
<p>Additional technical comments:</p>	
<p>Volume and Pricing:</p>	
<p>Estimated Potential Business Volume (i.e. #units per day, month, year):</p>	<p>One-time purchase</p>
<p>Estimated Target Price/Unit Cost Information:</p>	<p>Quantity of 1 Sonimix \$25,105.00 each Quantity of 1 self regen zero air generator \$3,920 each</p>
<p>Delivery Requirements:</p>	
<p>When is it needed by? (Immediate, 30 days, 6 months, etc.)</p>	<p>Anticipate award of contract before end of current fiscal year (09/20/2024), with delivery by 60 days after date of award.</p>
<p>Describe packaging requirements (i.e. individually/group packaging, etc.)</p>	<p>N/A</p>
<p>Where will this item be shipped?</p>	<p>Boulder, CO</p>
<p>Additional Comments:</p>	

<p>Is there other information you would like to include?</p>	<p>This is a Simplified Acquisition, which has a shorter lead time to completion than an action over \$250,000.00. It is expected that this requirement will be awarded within the next 30-60 days, and any timely scouting (requested completed within 15 days from submission) would be appreciated to align with Simplified Acquisition requirements for posting and the Buy American Act Waiver process. Department of Commerce Point of Contact: Marcelle Loveday, Director Acquisition Policy & Workforce Office of Acquisition Management MLoveday@doc.gov Please copy scouting@nist.gov on all correspondence</p>
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SONIMIX 4001

Ozone generator – Primary transfer standard

Intro Features and applications Technical specifications

The Sonimix 4001 is a stand alone ozone primary transfer standard able to generate ozone together with dry or wet air (optional) allowing to calibrate the ozone monitors in several points. It generates an outflow of 3 NL/min air containing 10 to 1000 ppb O₃, with stability and reproducibility of the concentration better than 1% relative. The extended range model generates 10 ppb to 10 ppm at 3 L/min and 10 ppm to 35 ppm at 0.9 L/min. The Sonimix 4001 is using pressure regulator and sonic nozzles and an ozone generator including thermostatisation and regulation by UV light photometer measurement with atmospheric pressure and temperature corrections (US EPA method of UV absorption by ozone, Beer-Lambert law). The ozone analyser is built with 1 reference UV light detectors that measure in alternance the UV intensity without any ozone and then the same UV light but through the generated ozone. With these 2 values, the processor calculates the amount of ozone generated.



> **Download technical sheets**

Product features

- > Stable and accurate > 1% (rel.)
- > Calibration with dry & wet air
- > Included novel LED photodetector
- > Ergonomic with LCD display

Main applications

- > Air pollution monitoring
- > Laboratory (ozone transfer)

Technical specifications

Models:	6800 17 000	6800 17 001
Sonimix 4001	standard range	extended range
General data		
Range	From 10 to 1000 ppb in 1 ppb steps @ 3 L/min	From 10ppb to 10 ppm @ 3 L/min + 10ppm to 35 ppm @ 0.9 L/min
Dilution principle	Sonic nozzles and high precision pressure regulators	
Dilution air	Dry air from internal zero air (option) or external dry air source	
Generated gas flow	3000 ml/min for range 1	900ml/min for range 2
Accuracy	10 ppb to 100 ppb : +/- 2 ppb >100 ppb : 1.5% relative	



Ozone Repeatability	Better than 1% relative
Warm up time	< 45 min
Stabilization time	< 15 min
O3 regulation	Measure of the UV light absorption of the generated ozone by UV reference photometer. (US EPA method and Beer Lambert law). Including atmospheric pressure and room temperature corrections
Dimensions	19cmx36cm, 50cm deep
Net weight	15 Kg
UV Section	
UV lamp life time	About 10'000 hours (with a mean concentration of 1 ppm)
Zero Air section	
Life Time	Annual preventive maintenance
Quality	O3, NO and NO2 < 1 ppb – H2O < -40°C dew point
Communication	
Outlet Port	Teflon 1/4" Swagelok fitting
Electrical data	
Power supply voltage	230V/50-60Hz – 117V/60Hz – 100V/60Hz

Information request

Need more information about this product?

Please contact us at info@lni-swissgas.eu (mailto:info@lni-swissgas.eu) or fill the form.

Do you need technical support?

Ask for assistance (<https://www.lni-swissgas.eu/en/support/?pn=SONIMIX%204001>)

<input type="text" value="Name"/>	<input type="text" value="Lastname"/>
<input type="text" value="Email"/>	<input type="text" value="Phone"/>
<input type="text" value="Select your Country"/>	
<input type="text" value="Request"/>	

Are you a customer? No Yes

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Product range

- > Premium Lab Gas Generators (<https://www.lni-swissgas.eu/en/products/lab-gas-generators/>)
- > Premium Gas Calibration Systems (<https://www.lni-swissgas.eu/en/products/gas-calibration-systems/>)
- > Premium Compressors (<https://www.lni-swissgas.eu/en/products/compressors/>)
- > Premium hydrogen sensors (<https://www.lni-swissgas.eu/en/products/hydrogen-sensors/>)
- > Premium laboratory benches and noise reduction enclosures (<https://www.lni-swissgas.eu/en/products/lab-benches-noise-reduction-enclosures/>)

Certifications



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