



Sampling

1. Ensure the flow rate has been set properly (*see Calibration*).
 -  **Leave grit pot in place during calibration and sampling.**
 2. Ensure a fresh casse4 e has been installed on the cyclone and the cyclone/casse4 e assembly has been inserted into the casse4 e holder (*see Inserting Cyclone/Casse4 e Assembly in Casse4 e Holder*).
 3. Connect the Tygon tubing attached to the casse4 e holder to the inlet of a constant flow personal sampling pump.
 4. Clip the holder with the cyclone/casse4 e assembly onto a worker's collar or pocket as close to the breathing zone as possible.
 5. Clip the pump onto the worker's belt or place it in a protective pouch. Start the pump and record pertinent details.
 6. At the end of the sampling period, stop the pump and record pertinent details.
 7. Remove the cyclone/casse4 e assembly from the casse4 e holder and immediately cap casse4 e outlet.
 8. Separate casse4 e from cyclone. Immediately replace the inlet section of the casse4 e, and cap inlet with provided plug.
 9. Package casse4 e and send it with all data to a laboratory for analysis.
-  **Discard particles that were collected in the cyclone's grit pot.**

Maintenance

Cleaning

After sampling, clean all parts of the cyclone, including the interior of the grit pot, with mild soapy water. The cyclone can be wiped with a clean dust-free tissue, air dried, blown dry, or wiped with isopropyl alcohol.



Do not use strong solvents to clean the cyclone.

References

Gautam, M. and Sreenath, A., "Performance of a Respirable Multi-Inlet Cyclone Sampler," *J. Aerosol Sci.*, Vol. 28. No. 7, pp. 1265-1281, 1997, [http://doi.org/10.1016/S0021-8519\(97\)00111-1](http://doi.org/10.1016/S0021-8519(97)00111-1)

Trakumas, S., et al., *Performance Assessment of Personal Respirable Cyclone Samplers*, AIHce Presentation 191, 2003, <https://bit.ly/3GqxJ1C> (PowerPoint presentation)

OSHA Final Rule on Respirable Crystalline Silica, www.osha.gov/silical

Accessories/Replacement Parts

Description	Cat. No.	
Replacement Cassette Adapter	25 mm	225-101
	37 mm	225-102
Replacement Bowl Adapter		225-108
Replacement Grit Pots, pk/25		P225012
Filter Cassette/Cyclone Holder for standard 25 or 37-mm 3-piece cassettes with or without a cyclone		225-1
	Standard-size Multi-purpose Calibration Jar	225-111

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