



Operating Instructions

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VersaTrap Spore Trap Cassettes

Cat. Nos. 225-9820 and 225-9821



VersaTrap Spore Trap Cassettes

1. Select a flow rate (see Flow Rate Guide on back) and calibrate pump flow rate.

VersaTrap® Cassettes do not produce significant back pressure, therefore, it is not necessary to calibrate flow with a cassette in line.

2. Remove and retain sealing tabs from cassette inlet and outlet.

3. Connect cassette outlet to pump inlet.

a. Direct method: If pump accommodates direct mounting (QuickTake 30, Cat. No. 228-9530A), attach rigid end of cassette adapter (supplied with all QuickTake 30 sample pumps) to sample pump inlet. Push the round fitting on cassette outlet into the bowl end of cassette adapter and form an even seal.

b. Indirect method: Use 1/2-in ID tubing to connect round fitting on cassette outlet to pump inlet.

4. Turn on sample pump and sample for appropriate sampling time. See Sampling Interval Guide on back.

5. When sampling is complete, turn off pump, remove cassette, and reseal cassette inlet and outlet with sealing tabs.

6. Place sample cassettes, outdoor background samples, non-complaint area samples, and blanks in a corrugated box and ship to a laboratory for analysis.

Flow Rate Guide

Select the flow rate that will provide the desired 50% cut-point to capture the particle size of interest.

15 L/min is recommended as an optimal flow rate.

Flow Rate	50% Cut-point (µm)
	VersaTrap
30.0	1.5
25.0	1.7
20.0	1.9
15.0	2.3
10.0	2.8
5.0	3.9

Sampling Interval Guide

Following are recommended sampling times for specific dust conditions.

SKC recommends reducing length of sampling time when using a 30 L/min flow rate to prevent overloading.

Recommended Sampling Intervals for the VersaTrap Air Sampling Cassette at Typical Collection Flow Rates		
Typical Environmental Conditions	Flow rate Collection @ 15 L/min	Flow rate Collection @ 30 L/min
Clean "office" or outdoors (no visible dust)	10 minutes	5 minutes
Indoor environment, high activity personnel	5 minutes	2 minutes
Indoor environment, drywall renovation, or heavy industrial dust	1 minute	1/2 minute

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