SKC Particle Size-selective Sampling Guide

Use this convenient guide to help you select a sampling device to meet your application

Fast Find!

Sampler / Cat. No.	Particle Classification	Flow Rate	50% Cut-Point	Recommended Calibration Interface	Filter Size	Unique Features
Button Sampler 225-360	**Inhalable**	4.0 L/min	100 µm	Button Sampler Cal Adaptor 225-361	25mm	Low sensitivity to ambient air conditions. Reduces oversampling of very large particles.
IOM 225-70A	**Inhalable and / or Respirable** (with foam)	2.0 L/min 2.0 L/min	100 µm 4.0 µm	IOM Calidaptor 391-01	25mm	Multi-fraction sampling with Multidust foam. Meets ACGIH sampling criteria for inhalable dust.
Parallel Particle Impactor 225-380	**Respirable Thoracic**	2.0 L/min 2.0 L/min	4.0 µm 10 µm	Multi-purpose Cal Jar 225-111	37mm collection filter & 9.5mm impaction substrates	Matches entire curve more closely than any other sampler. Meets NIOSH 5524 & ACGIH thoracic TLVs.
DPM Cassette 225-317	**Sub-micron**	1.7 L/min 2.0 L/min	<1.0 µm	Multi-purpose Cal Jar if used with GS-1 Cyclone	37mm	Integral precision-jewelled impactor. Low carbon background filters. Tamper-evident seal.
PEM 761-200	**PM2.5** **PM10** (Thoracic)	2.0 L/min 4.0 L/min 10 L/min	2.5 µm 10 µm	PEM Calibration Cap 761-202	37mm	Meets ACGIH thoracic TLV. Referenced in EPA Method IP-10A for particles in indoor air.
Sioutas Cascade Impactor 225-370	**2.5 µm & above** **1.0-2.5µm** **0.5-1.0 µm** **0.25-5.0 µm** **<0.25 µm**	9 L/min	2.5 µm 1.0 µm 0.5 µm 0.25 µm	None required	37mm after filter & 25mm collection substrates	Minimal particle bounce. Samples coarse, fine and ultrafine particles. Preserves unstable compounds.
DPS System with Impactor 100-3901	**PM2.5** **PM10**	10 L/min 10 L/min	2.5 µm 10 µm	Cal Adaptor	47mm collection filter & 37mm impaction substrates	Follows closely EPA reference methods Convenient disposable impaction substrate

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1 ***Inhalable*** *(100 µm 50% cut-point), hazardous when deposited anywhere in the respiratory tract.*

2 ***Thoracic*** *(10 µm 50% cut-point), hazardous when deposited anywhere in the lung airways and the gas exchange regions.*

3 ***Respirable*** *(4 µm 50% cut-point), hazardous when deposited in the gas exchange regions of the lungs. PM2.5 and PM10 sampling according to EPA regulation determines compliance with ambient air quality standards and reveals information on particle sources and their effect on the environment and public health.*