IVI Sampler

Sharp Size Selection for PM10, PM2.5, or PM Coarse

- Ideal for environmental PM sampling and indoor air studies
- Use with any pump at 10 L/min
 - Leland Legacy pump optimized for use with IMPACT
- Compact design only 8 ounces!
- Higher flow rate provides increased sensitivity
- Fast media changes with removable filter cassette
- Disposable ready-to-use pre-oiled impaction discs reduce particle bounce — no impaction grease needed!
- Rain cover included to protect sampler during outdoor use
- Optional quick-mount bracket accessory secures sampler virtually anywhere



The patented* SKC IMPACT single-stage inertial impactor is designed for efficient collection of PM10, PM2.5, or PM Coarse (10-2.5) in ambient air. Operated at 10 L/min constant flow, larger particles are captured on a disposable pre-oiled impaction disc while smaller particles collect on a 47-mm filter. The filter and impaction disc are housed in a removable filter cassette. The IMPACT's higher flow rate provides increased sensitivity for low levels of PM.

IMPACT — The Heart of the SKC Deployable Particulate Sampler (DPS) System

The IMPACT Sampler is the sampling head for the SKC DPS System. Coupled with the power of the Leland Legacy® Sample Pump, the DPS System provides all the equipment needed in one compact heavy-duty case for secure 24-hour ambient and indoor sampling. Applications include fenceline, near-roadway, and remediation monitoring; baseline surveys; and indoor air studies. See more on the DPS System at www.skcinc.com.





^{*} U.S. Patent No. 7,334,453

IMPACT Sampler

Sharp Size Selection for PM10, PM2.5, or PM Coarse (10-2.5)

IMPACT and Leland Legacy Pump

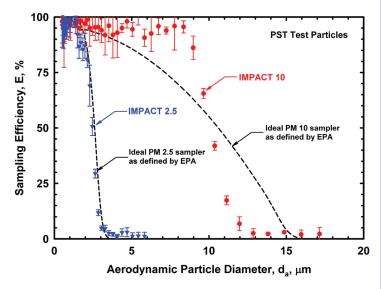
While IMPACT can be used with any pump at 10 L/min, partnering IMPACT with the Leland Legacy Sample Pump provides a highly efficient sampling system. The Leland Legacy pump is quiet, fully programmable, and provides a constant 10 L/min flow rate for 24 hours, making it ideal for environmental monitoring or indoor air studies. See more at www.skcinc.com.



IMPACT Applications

- Perimeter monitoring at industrial/manufacturing sites
- Dust monitoring at landfill remediation sites
- Fugitive dust monitoring from cropland erosion
- FRM network validation studies
- Urban air quality studies
- Fenceline sampling at coal-fired plants
- Indoor air studies

IMPACT Performance



Sampling efficiency of the IMPACT 2.5 and IMPACT 10 measured in an aerosol test chamber. Field test data is available at www.skcinc.com/media/documents/other-docs/modular-impactors-poster-presentation.pdf

Performance Profile

Flow Rate: 10 L/min

50% Cut-point: 10 μm or 2.5 μm (model dependent)

Impaction Discs: For reduction of particle bounce:

37-mm disposable pre-oiled porous plastic discs *For chemical analysis of larger particles:*

37-mm filter (quartz or PTFE†)

Collection Filter: 47-mm filter, select material based on application

Impactor Material: Aluminum (inlet) with brass barbed fitting for

3/8-in ID tubing

Dimensions and Weight: 2.6 dia. x 1.8 H x 3.8 L in

(7 x 5 x 10 cm), 8 oz (0.23 kg)

Analysis: Gravimetric and/or chemical

Ordering Information

Description	Cat. No.
IMPACT Sampler includes sampler inlet and body, filter cassette, calibration adapter, and rain cover, requires impaction substrate and collection media below	
PM10 PM2.5 PM Coarse includes 2 filter cassettes	225-390 225-392 225-3911
Recommended Collection Filters,* required for each sample; select a filter based on application	
Quartz Filters, 47 mm, Tissuquartz, 432 μm thick, pk/25 PTFE Filters,† 47 mm, 2.0 μm, with PMP support ring, pk/50	225-1823 225-1747
Impaction Substrate, required for each sample, select an impaction substrate based on application	
To Reduce Particle Bounce	
Impaction Discs, 37 mm, pre-oiled, ready to use, disposable, limited shelf-life pk/10 pk/25 pk/50	225-395B 225-395 225-395A
For Chemical Analysis of Larger Particles	
Quartz Filters, 37 mm, Tissuquartz, 432 µm thick, pk/25 PTFE Filters,† 37 mm, 2.0 µm, with PMP support ring, pk/50	225-1822 225-1709
Accessories	Cat. No.
Mounting Bracket	225-399
Filter Cassette Opener	225-397
PM Coarse Ring includes filter cassette, adapts IMPACT PM10 to an IMPACT PM Coarse	225-3912

- † Back pressure on PTFE filters can vary within the same lot
- Recommended filters for use with Leland Legacy Sample Pump