

DPS SYSTEM

The Most Portable 24-hour Ambient PM Sampling System Available

- **Compact, portable all-in-one design**
 - Pump, sampling head, impaction substrates, and accessories in one heavy-duty lockable carry case
 - Only 13.5 lbs (6.1 kg)
 - Lower shipping costs
- **Fast setup**
 - Disposable ready-to-use impaction substrate — no cleaning or greasing
 - Simple three-button keypad on pump for programming unattended sample runs
 - Quick-disconnect tubing for fast connection
 - Small sampling head mounts virtually anywhere with quick-mount bracket
- **Easy, secure operation**
 - Quick 3-button programming
 - Pump operates within lockable splash-resistant case
 - Convenient filter cassette and opener for fast media changes
 - Rain cap protects sampling head
- **Ideal for remote locations**
 - Compact, portable system is easily carried or shipped
 - Operates for over 24 hours from high-power Li-Ion battery
- **System pump provides constant, accurate airflows**
- **Impactors available for PM10 or PM2.5**



DPS System Setup

Remove impactor and accessories, close case, prepare and mount impactor, connect to pump, calibrate, and sample.



DPS Impactor for PM Sampling
(included in DPS System)

SKC has brought portability, cost effectiveness, and ease of use to ambient PM sampling with the SKC **Deployable Particulate Sampler (DPS) System**. SKC has combined its fully programmable Leland Legacy® Sample Pump with the DPS Impactor and sampling accessories to create this convenient turnkey system.

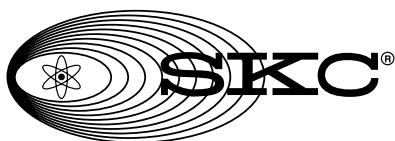
SKC DPS Portability and Ease of Use

Preparation: Insert media into impactor and program a run schedule into the pump if desired. The system can be carried or shipped to the site in one compact case with convenient handle.

On Location: Mount bracket and impactor, connect pump, calibrate, and sample.



DPS System in use. DPS Impactor shown with rain cap.



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SKC Gulf Coast 281-859-8050

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SKC DPS System

Portable 10 L/min Ambient PM10 Sampling System

The DPS System Advantage

Portability and Fast Setup. Other systems require multiple cases and are cumbersome to transport and set up. The SKC DPS System is contained in one easily carried case that has been customized for convenient system operation; the pump even stays in the case during sampling. Setup takes only a few minutes.

Disposable Pre-oiled Impaction Substrate. No cleaning or greasing required.

Flexible Programmability. The DPS System pump may be programmed manually using the pump's simple three-button keypad or by using a PC and the DataTrac® Software accessory. DataTrac Software provides advanced scheduling options and allows the user to produce reports.

Ruggedness. Housed in a lockable heavy-duty splash- and dust-resistant Pelican case, the SKC DPS System is cushioned in custom foam. A rain cap is included to protect the DPS Impactor.

DPS Impactor — The Heart of the DPS System

The compact, lightweight DPS Impactor[†] is the sampling head included in the DPS System. This inertial impactor is designed to efficiently remove particles larger than its cut-point by capturing them on a disposable oiled impaction substrate that reduces particle bounce. Particles that are smaller than the cut-point are collected on a 47-mm filter. The DPS Impactor mounts easily and makes media changes fast and simple with its convenient filter cassette and opener.



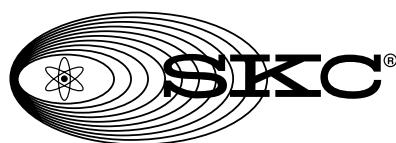
Collection Filters for DPS Impactor

The DPS Impactor efficiently collects particulate matter on a 47-mm filter. Studies indicate that quartz filters and PTFE (Teflon) filters with a 2.0 µm pore size and support ring may be used for optimal performance.

DPS System Applications

The quiet, compact, battery-operated, and portable SKC DPS Sampling System ensures the ability to monitor particulate matter in indoor and outdoor environments and in urban, industrial, or rural settings. **Contact your SKC representative to discuss your applications.**

‡ Patent pending



Performance Profile

| | |
|-----------------------------|---|
| Flow Rate: | 10 L/min |
| 50% Cut-point: | 10 µm or 2.5 µm (model dependent) |
| Run Time: | >24 hours on one battery charge |
| Power: | Rechargeable lithium-ion (Li-Ion) battery |
| Impaction Substrate: | 37-mm pre-oiled porous plastic disk (supplied with system). |
| Collection Filter: | 47-mm quartz or PTFE§ with support ring |
| Analysis: | Gravimetric and chemical |
| Tubing: | 3/8-in ID Tygon® (supplied) |
| Case Dimensions: | 18.5 x 14.1 x 6.9 in (47 x 36 x 18 cm) |

Complete System Weight:

13.5 lbs (6.1 kg)

Sampling Head (Impactor) Dimensions:

2.6 dia. x 1.8 D x 3.8 L in
(7 x 4 x 10 cm)

Sampling Head (Impactor) Weight:

0.5 lb (0.23 kg)

Ordering Information

| Description | Cat. No. | Qty. |
|--|------------------|---------------------|
| DPS System*†‡ includes sample pump, charger (100-240 V), DPS Impactor, filter cassettes (2), calibration adapter, rain cap, disposable impaction substrates (25)‡, filter cassette opener, tubing with quick-disconnect, and mounting bracket in heavy-duty lockable carry case | PM10 Kit | 100-3901# ea |
| | PM2.5 Kit | 100-3903# ea |
| DPS System without Pump includes all items above except sample pump | PM10 Kit | 225-391 ea |
| | PM2.5 Kit | 225-393 ea |

* Provides data similar to data from Federal Reference Method samplers. The DPS System is not a Federal Reference Method sampler.

† Quantity discounts available

‡ Limited shelf-life

DPS Systems with pumps contain Li-Ion batteries and may be subject to special shipping regulations dependent upon quantity

| Collection Filters for DPS System (not supplied with system) | | |
|--|------------------|-----------|
| Select a filter based on your application. | | |
| Quartz Filters , 47 mm, Tissuquartz™, 432 µm thick | 225-1823 | 25 |
| PTFE (Teflon) Filters§ , 47 mm, 2.0 µm pore size, with PMP support ring | 225-1747§ | 50 |

§ Back pressure on Teflon filters can vary within the same lot.

| Replacement Parts | | |
|--|-----------------|-------------------|
| Replacement Impaction Substrates, 37 mm, pre-oiled porous plastic disks, ready to use, disposable | | |
| | 225-395 | 25 |
| Limited shelf-life | 225-395A | 50 |
| 25 disposable pre-oiled plastic disks are included with the DPS System. | | |
| Replacement Impactors include filter cassette, calibration adapter, and rain cap | | |
| | PM10 | 225-390 ea |
| | PM2.5 | 225-392 ea |

Other replacement parts are available; contact SKC

| Accessories | | |
|--|-----------------|------------|
| Petri Dish Slide , for filter transport | 225-2-01 | 100 |
| DataTrac for Leland Legacy Software includes software on CD, adapter, and cable, requires Windows® 98 or higher | 877-92 | ea |