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## TECHNICAL INFORMATION

### SirchVAC™ Evidence Sweeper

Catalog Nos. SV110, SV220, SV110K, SV220K

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<b>Application</b>	The collection and containment of microparticle evidence for transportation to the lab for analysis.
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### INTRODUCTION

The SirchVAC™ Evidence Sweeper is dedicated to one function—collecting trace evidence at the crime scene. Surface vacuuming with a hermetically sealed, single-use filter assembly eliminates cross contamination from individual crime scenes. The entire sealed filter assembly in its evidence collection bag is submitted to the crime laboratory for examination. The SV110/220 comes complete with the tools to collect trace evidence at the crime



scene, including a 20" extension hose, plus a handy carrying/storage case. The SV110K and SV220K SirchVAC™ Evidence Sweeper Kits offer the end user even more evidence collection/containment options with extra integrity evidence bags, specimen containers and evidence ID tape.

The 619E1 Evidence Filter Assembly offers one-time use to prevent any possibility of contamination

<p><b>Hazards/Safety Info</b></p>	<p> <b>Warning!</b> The vacuum motor may create unshielded sparks—do not use in explosive areas. Potential shock hazard—do not attempt to vacuum liquids as this will also damage motor—dry vacuuming only.</p> <p> <b>Caution!</b> Must be used with 619E1 filter assembly. The filter assembly is intended for one-time-use only—attempts to reuse will result in cross-contamination of evidence.</p> <p><b>Caution!</b> The vacuum has a high-torque motor. Hold its handle when switching it on to prevent it from jumping in reaction to the acceleration of the motor.</p>
<p><b>SV110K/SV220K Contents</b></p> 	<ul style="list-style-type: none"> <li>1- SV110 or SV220 vacuum sweeper 500W motor (SV110: 110V 4.5 amp; SV220: 220V 2.3 amp)</li> <li>1- Flexible Venturi-controlled Vacuum Hose, 6 ft.</li> <li>1- Flexible Hose, 20"</li> <li>2- 619E1 Evidence Filter Assembly w/crevice tool and evidence bag</li> <li>5- KCP149 Specimen Containers w/caps, 9ml</li> <li><b>1- KCP224 Inner Storage Case containing:</b> <ul style="list-style-type: none"> <li>10-IEB4001 Integrity Evidence Bags, 4" x 7.5" (10.2cm x 19cm)</li> <li>5-IEB75001 Integrity Evidence Bags, 7.5" x 10.5" (19cm x 26.7cm)</li> <li>1-603E Evidence Identification Tape, 1" x 500"</li> </ul> </li> <li>1- KCP1004 Black Molded Copolymer Carry Case, textured w/handle and molded Inserts; Dimensions: 17" x 13" x 7.625" (69.9cm x 33cm x 19.4cm)</li> <li><b>SV110/SV220 Case:</b> <ul style="list-style-type: none"> <li>Gray Molded Copolymer Carry Case, textured w/handle and molded inserts; Dimensions: 15" x 6.875" x 6.5" (38.1cm x 17.5cm x 16.5cm)</li> </ul> </li> </ul>

from one area of the crime scene to another. These filters are sealed at the factory, and these seals must not be disturbed either before or after evidence is collected. The seal may be broken only by the laboratory technician.

## **PROCEDURE**

### Prepare Vacuum for Use

*NOTE: Tamper-proof evidence tape is used to seal the evidence filters. Do not attempt to open the filter chamber. Any assembly with disturbed evidence seals should be discarded*

1. Remove the round red vinyl caps from both ends of the filter. Keep these caps for later use. Attach the appropriate tool to the tapered end of the filter.
2. Attach the filter directly to the flexible vacuum hose. Proceed with evidence collection. Monitor the amount of evidence collected through the chamber's clear tube, and replace filters as needed.
3. After collection is complete or the filter is full, remove the tool from the filter. Remove the filter from the vacuum sweeper and replace both end caps. This effectively seals the evidence into the trace evidence filter assembly.
4. Fill out the form printed on the self-sealing evidence/property bag in which the filter assembly will be packed.
5. Initial the evidence tape seal on filter assembly and place the filter and applicable tool into the bag.
6. Remove the release liner from the flap of the bag. (The release liner is a plastic strip that protects the adhesive.)
7. Fold along the line indicated on the bag. Press flap and bag together along the line of adhesive to form seal. The bag is now sealed.

8. Tear off the receipt tag from the end of the bag and retain for your records.
9. Forward sealed evidence bag to appropriate crime laboratory.

### Processing Floor Areas

It is recommended that large areas of floor or carpet be done in sections. If too large an area (or a very dirty area) is attempted, the filter will become clogged with debris, and the effectiveness of the vacuum will be impaired. The filter should be replaced before it gets clogged. Some judgment is required, but it is suggested that a 12' x 18' carpet should be divided into quarters and a fresh filter used for each quarter.

### Processing Furniture

Chairs, couches, and similar upholstered furniture have exposed areas and concealed crevices. These areas should be done in two separate steps. First, sweep the exposed surfaces, and then, replace the filter to collect debris from the hidden areas. Remember to use fresh filters for each piece of furniture to avoid cross contamination of evidence. Arms and backs of furniture are important since hairs from the arms and head may be found in these areas.

