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## TECHNICAL INFORMATION

### Shake-n-Fume™ Disposable Fuming Systems Catalog Nos. FR175A, FR175FG

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#### INTRODUCTION

The FR175 fuming system is an easy-to-assemble, compact and portable design that facilitates fuming operations in the field and serves as a space-saver in the laboratory as well. Designed for use incorporating all fuming procedures, the Shake-n-Fume™ is especially well suited for use with SIRCHIE's CNA300 Cyano-Shot™.

This disposable fuming chamber features a simple 2 piece frame assembly available in your choice of aluminum (FR175A) or fiberglass construction (FR175FG). It features true heavy-duty shock-cord design which allows self-assembly in seconds with a light shake. The frame is then lifted into a sturdy 11.625" x 11.625" (29.5cm x 29.5cm base, creating the framework for the preprinted disposable fuming bag. The box-shaped fuming chamber, constructed of heavy gauge crystal-clear plastic, forms a fuming area measuring 10" x 10" x 20" (25.4cm x 25.4cm x 25.4cm). All components



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are stored in a handy document-style carrier.

In many situations, it may be advisable to perform fuming operations in the field. This is especially true when transporting certain kinds of evidence that may result in damage to fragile latent fingerprints.

### **CAUTIONS**

- Before using this kit, consult the appropriate Material Safety Data Sheets (MSDS) found on our website at [www.sirchie.com/support](http://www.sirchie.com/support).
- The chemicals often used in fuming operations will produce noxious, irritating fumes. After fuming is complete, exercise caution when removing the fuming bag as fumes will remain in the fuming chamber. Wear the necessary eye protection. When the situation requires release of impounded fumes, wear a respirator with organic vapor cartridges.
- Certain self-starting fuming devices may generate heat to accelerate the fuming process. Allow these devices to cool sufficiently prior to handling them.
- Dispose of all chemicals used for fuming in accordance with all Federal, State and Local regulations.

### **PROCEDURE**

1. Open the carrying envelope and remove the contents. Remove the chamber base from its plastic storage bag. Place the chamber base on a firm, flat, level surface.
2. The kit contains two sets of shock-corded supports bound with rubber bands. Remove the rubber bands from each assembly. A black O-ring holds the two leg assemblies together. Grasp the area of the O-ring and shake lightly. The leg assemblies will snap into place.
3. One support leg assembly is approximately 1/2" longer than the other (this assembly is marked with a white dot). Take the smaller support assembly and insert the feet into the predrilled holes in the

base. Place the support legs along a diagonal, corner to corner (Fig. 1). Place the larger support piece (with white dot) over the smaller support and insert the legs into the holes on the base. Place evidence



FIGURE 1



FIGURE 2



FIGURE 3



FIGURE 4

in the chamber. Clip smaller, lighter items onto the evidence clips. Larger, heavier items may be placed on the base as shown in Figure 2.

4. Unfold a fuming bag and place it over the supports. Pull it down until it is about 3"-4" from the base (Fig. 3). *A few test prints on a black card will serve as a control. Place the control inside the fuming area where it will be plainly visible.*
5. Activate the fuming charge and place it as close to the center of the base as possible. Slide the fuming bag all the way down. The bag is large enough to fit over the sides of the base. This tight fit is necessary to impound the fumes (Fig. 4).
6. If cyanoacrylate is used, it is important to avoid over-development. Over-development causes the valleys between the ridges to fill in with polymerized cyanoacrylate. Your control will be the best method of determining when to stop development. The development time will be dependent on the fuming charge used.

- When development seems sufficient, raise the fuming bag and remove the evidence. DO NOT perform this step unless adequate ventilation is available. If adequate ventilation is not available, everyone in the work area should be equipped with safety glasses/goggles and an organic vapor respirator.
- Examine the evidence and proceed with established methods for recording your findings.

**NOTE:** Because cyanoacrylate-developed prints have a translucent, whitish appearance, some enhancement may be necessary. You may use latent fingerprint development powders or chemical methods such as Ardrex, Rhodamine 6G or Basic Yellow.

**FR175 CONTENTS:**

- 1- Heavy duty base 11.625" x 11.625"  
(29.5cm x 29.5cm)
- 1- Sturdy, lightweight aluminum frame (FR175A) or lightweight Fiberglass frame (FR175FG)
- 1- 10" x 10" x 20" fuming area  
(25.4cm x 25.4cm x 50.8cm)
- 15- Preprinted disposable fuming bags
- 4- Evidence Clips
- 1- Zip-top Nylon carrying case

