

TECHNICAL INFORMATION

Insta-FumeTent™ Disposable Fuming Chamber Catalog No. FR150

INTRODUCTION

The FR150 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 Insta-FumeTent™ is especially well suited for use with SIRCHIE's CNA300 Cyano-Shot™.

This disposable fuming chamber features a simple 6 piece frame that snaps together in seconds into its sturdy 11 5/8" x 11 5/8" 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". All components 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.



PRECAUTIONS

- Before using this product, consult the appropriate Material Safety Data Sheets (MSDS) found on our website at www.sirchie.com and click on MSDS.
- 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 a 6 piece set of supports bound with rubber bands. Remove the rubber bands from the support assembly. The gray support leg assembly



FIGURE 1



FIGURE 2



FIGURE 3



FIGURE 4

is approximately 1/2" shorter than the black. Insert the feet of the gray support legs into the predrilled holes in opposite corners of the base. Position the black support legs into the others (Fig.1). Fit the gray top piece onto the gray support legs and the black top piece across the gray bar and into the black legs.

3. Attach two evidence clips on each of these cross bars and clip smaller, lighter items to them. Larger, heavier items may be placed on the base as shown in Figure 2.
4. Unfold a fuming bag. Place it over the supports and pull it down until it is about 3"-4" from the base (Fig. 3). **NOTE:** 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. Enclose the evidence by sliding the fuming bag down over the sides of the base. This creates the tight fit 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 depends on the fuming charge used.
7. 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.
8. 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 Ardrox, Rhodamine 6G or Basic Yellow.

IODINE FUMING—The FR150 Insta-FumeTent™ may also be used as an enclosure for Iodine Fuming. Since Iodine requires heat to accelerate the sublimation of the crystals, the SIRCHIE IO-FUME™ Instant Vaporizer No. LPF1006 is ideal for this purpose. Follow directions above for setup. Iodine fuming for latent print development is most effective on porous surfaces such as paper, cardboard and raw wood. Iodine fuming is non-destructive to subsequent tests with DFO, Ninhydrin, Physical Developer and Silver Nitrate. Iodine-fumed prints will quickly fade. Any developed prints should be photographed as soon as possible. Be certain to include a scale in all photographs.

FR150 CONTENTS:

- 1- Heavy duty base, 11 5/8" x 11 5/8"
- 1- 10" x 10" x 20" box shaped fuming area
- 15- Pre-printed disposable fuming bags
- 1- Sturdy, lightweight aluminum frame
- 4- Evidence Clips
- 1- Carrying Pouch

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