



TECHNICAL INFORMATION

1000cc Vacuum Sampler

Catalog No. AEC106

INTRODUCTION

Vacuum Samplers are evacuated aerosol-type containers that provide a unique and convenient method for collecting liquid samples from fire scenes. Vacuum Samplers have a capacity of approximately 1000cc. The overall dimensions of the container are 2.625" dia. x 11" high (6.7cm x 28cm). They are constructed of aluminum and have a tin plated steel closure. The needle guide is nickel-plated brass. No interior coating is applied to the container. The container has a domed top for added strength.

CAUTIONS

- Vacuum Samplers are meant for one time use in the collection of liquid samples from pools found in and around a fire scene and should be discarded after the sample is examined by the laboratory.
- Be certain that all of the necessary connections to the Vacuum Sampler have been made, and that the collection tubing is completely submerged in the liquid to be collected, prior to inserting the hypodermic needle into the septum.



PROCEDURE

Vacuum Samplers are fitted with a unique septum port and needle guide through which the container is filled and samples can be extracted from for subsequent analysis. A 4" (10.2cm) long, 22-gauge hypodermic needle is supplied with each vacuum sampler. The point of the needle is honed for septum penetration and the other end is fitted with a Webster Hose Hub that accepts Teflon® tubing. Because the container is supplied evacuated, no external pumps, etc. are required to obtain the sample.

Directions for Use:

1. Connect one end of the Teflon® tube to the hypodermic needle by pushing it over the hose hub (Fig. 1). Use as short a length of tubing as possible.
2. Place the other end of the Teflon® tubing into the pool of liquid to be sampled. Be certain that the end of the tubing is completely submerged in the liquid.
3. Push the hypodermic needle through the septum of the vacuum sampler. The liquid will be drawn into the sampler (Fig. 2).
4. When the vacuum in the sampler is depleted, an air bubble will form in the tubing. Lift the tubing from the liquid being sampled and raise the end above the sampler to allow any liquid in the tubing to drain into the sampler.
5. Remove the needle from the sampler septum and discard of it properly.

Vacuum Samplers are supplied in individual telescopic cardboard mailing tubes to protect the unit both in mailing and handling. Once the unit is filled, it can be returned to the laboratory for analysis of the contents.



FIGURE 1



FIGURE 2