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VAP-300 ACETONE VAPORIZER

Warning: Use the vaporizer in a well-ventilated area and keep away from heat and flame.

The BGI Acetone Vaporizer clarifies membranes for quick particle analysis of airborne contaminants. After sampling ambient conditions, the filter is placed on a slide and treated with acetone and triacetin. The filter can be heated to facilitate drying.

Acetone Vaporizer components:

-syringe
-instrument

Extra equipment needed:

-acetone
-triacetin
-slides
-cover slips
-forceps
-eye dropper
-scalpel

Operation:

Set up the vaporizer

Caution: Wear safety glasses and neoprene or butyl gloves when working with acetone.

1. Place the Acetone Vaporizer on a flat surface. Make sure the surface is clean and dry.
2. Plug the heating element into a grounded outlet- the red ON light will illuminate.
3. Allow the vaporizer to warm up for two minutes. The green READY light will illuminate when the vaporizer is ready to use.

Purge the Vaporizer

Warning: Acetone is very flammable, use extreme caution when adding acetone to the syringe or the vaporizer. Do not use the acetone vaporizer near open fire or flame. Use in a well-ventilated area only.

Draw about 0.5mL of acetone into the syringe. Hold the syringe with the needle pointing up so that the syringe does not drip.

Warning: Do not allow syringe to drip.

Place the needle into the inlet on top of the vaporizer, push plunger to inject acetone into vaporizer.

Clear the Membrane

1. Place the slide on the stand under the vaporization tube.
2. Adjust the height of the slide stand to your satisfaction.
3. With the forceps, place a membrane filter or portion thereof on a glass slide.
4. Place the filter and glass slide onto the slide stand. Make sure the filter is directly below the vaporization tube.
5. Remove the syringe from the inlet.
6. Draw no more than 0.3 mL of acetone into the syringe.
7. Make sure there are no air bubbles in the syringe.

Warning: Do not allow syringe to drip.

8. Place the syringe needle into the inlet.
9. Push the plunger to inject acetone into the vaporizer. The membrane should start to clarify.

Note: A slight crinkling on the edge of the filter will not affect particle counting.

Prepare the Slide for Analysis

1. Wait one minute to allow excess acetone to evaporate from the slide.
2. With an eye dropper, place one drop of triacetin onto the filter.

Note: You may have to add more triacetin if the filter is not covered.

3. Place a cover slip onto the filter or the sample could be damaged.

Caution: Do not press the cover slip onto the filter or the sample could be damaged.

After 24 hours, the membrane filter slide will be ready to analyze. Send the slide to an approved laboratory for analysis. If you need to analyze the slide within 24 hours, heat the slide to speed clarification. To heat the slide:

1. Place the slide (cover slip up) on the slide heater.
2. After 15 minutes, the slide will be clarified and ready for analysis.
3. Do not allow the slide to warm for more than 15 minutes.

Specifications

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| Size | 6.5"h x 5.37"w x 5.12"d | (16.8cm x 13.2cm x 13cm) |
| Power | US: 120V, 60 Hz, 2amps | (Export: 240V, 50Hz, 2amps) |