

QuikVap™ Evaporating System

Evaporation of n-Hexane for EPA Method 1664A is Simple and Efficient with the QuikVap Evaporating System.

This versatile evaporation system is adjustable in temperature, air flow and vessel configuration to allow the analyst to use 100mL borosilicate flasks, 70 or 105mm aluminum pans to evaporate n-Hexane quickly. Connect the QuikVap to your source of dried air or nitrogen and preheat the block to 65°C. Adjust the flow control valve to achieve the desired low flow of air or nitrogen. Evaporate to dryness in pre-weighed vessels (40mL of solvent will take approximately 20 minutes to evaporate). Following the method, desiccate and re-weigh. Operation of the QuikVap should take place under an operating fume hood.

The system comes with block heater with pre-inserted six-position flask manifold, anodized aluminum pan adaptor plate, six curved needles, six needle adaptors, Flow control valve with attached hose barb adaptor and one complimentary box of 105mm aluminum pans.

Consumables (purchase separately):

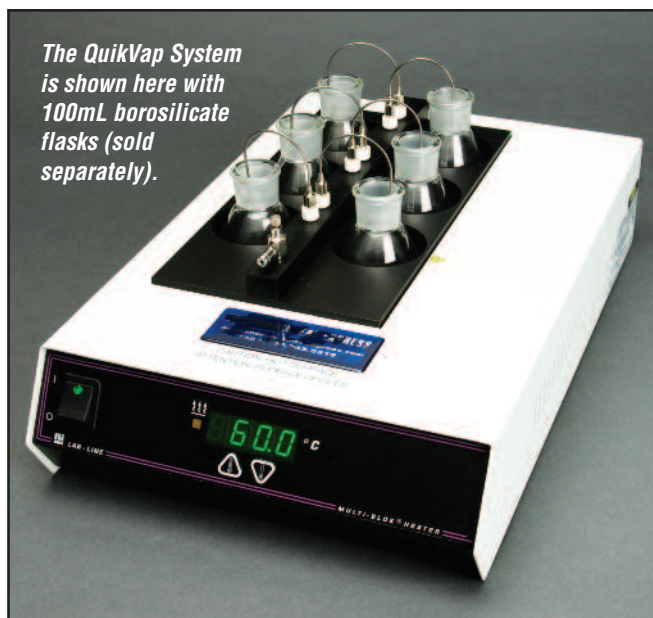
- **F93447DSH** - 70mm Aluminum Pans
- **F93140DSH** - 105mm Aluminum Pans
- **G1045** - 100mL Borosilicate Flasks

Safety Precautions:

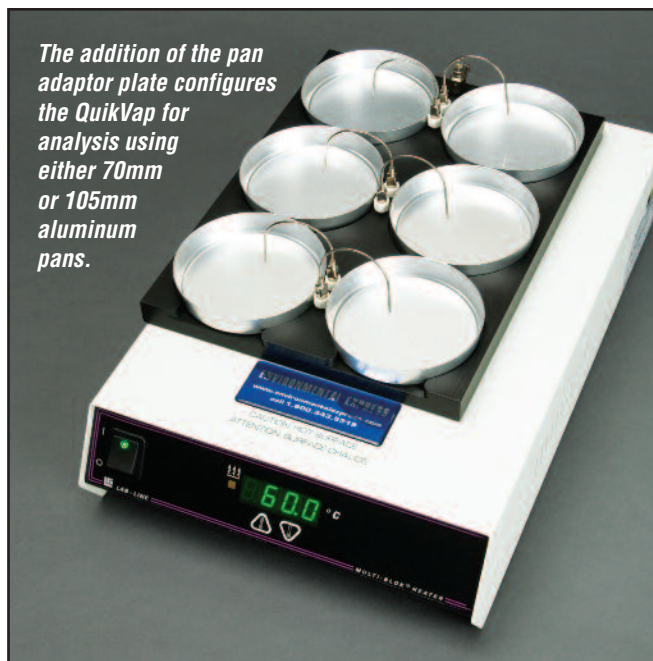
- ⚠ Always use unit under a fume hood. n-Hexane is flammable and listed as a neurotoxin.
- ⚠ Keep away from open flame.
- ⚠ Use gloves when handling n-hexane.
- ⚠ Caution, surfaces of QuikVap, pans and flasks may be **HOT**. Use protective apparel when handling these items.

The QuikVap can be used with 70mm or 105mm aluminum pans or 100mL flasks.

Typically, the analyst will evaporate samples from either 100mL flasks or from aluminum pans, but not both. The QuikVap can be used for either method. See instructions for use on the back of this sheet.



The QuikVap System is shown here with 100mL borosilicate flasks (sold separately).



The addition of the pan adaptor plate configures the QuikVap for analysis using either 70mm or 105mm aluminum pans.

QuikVap Evaporating System
(also available in 240V, G7000-240)

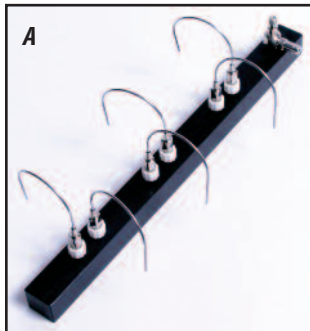
Catalog # G7000

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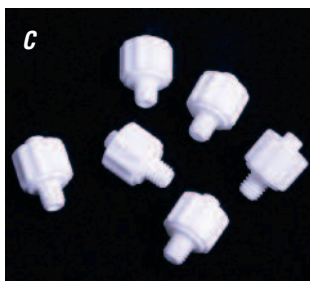
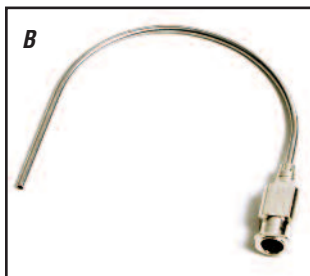
QuikVap™ Evaporating System



Assembly:

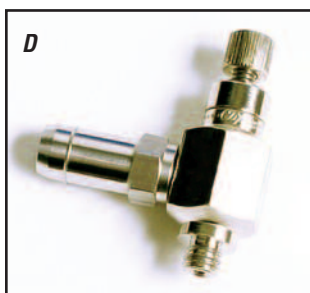
For 100mL Flasks

- Screw your *flow-control valve with hose barb adaptor (D)* directly into the threaded hole on the end of the QuikVap *manifold (A)*. Tighten, finger-tight only.
- Screw the six *needle adapters* into the six-position flask manifold in the proper positions. (See photo **A**). Tighten these components, finger-tight only.
- Insert the *curved stainless steel needles* (photo **B**) firmly into the six needle adapters (photo **C**). The needles should pivot to allow for adjustment by the analyst.
- Place the *manifold* in the slot on the aluminum *six-place block*. The manifold can be lifted on or off as needed to facilitate handling of the flasks.
- Attach one end of your *tubing* to the hose barb adaptor on the flow-control valve and the other end to your pressurized air or nitrogen source.



For 70mm or 105mm Pans

To evaporate using 70mm or 105mm pans, follow the assembly instructions above, screwing your components directly into the *pan adaptor plate (E)* rather than the manifold. Place the pan adaptor plate over the six-place block in the heating unit with the flow control valve facing toward the rear. Attach one end of your tubing to the hose barb adaptor and the other end to your pressurized air or nitrogen source.



Evaporate n-Hexane using 100mL flasks with the QuikVap manifold (A) or aluminum pans with pan adaptor plate (E).

Directions for Use:

1. Follow the assembly instructions (left). If using 100mL round bottom flasks for evaporation, use the six-position block and the manifold bar. If using 70mm or 140mm pans, use the aluminum pan adaptor plate.
2. Preheat block to 65°C
3. Connect one end of the tubing provided to the flow-control valve/hose barb adaptor and the other end to your dried air or nitrogen source.
4. With the QuikVap located under an operating fume hood, place samples in weighed containers into their appropriate slots in the QuikVap and adjust the flow control valve to achieve the desired flow of air or nitrogen. The flow should ripple the surface of the hexane in the container slightly.
5. Evaporate to dryness (40mL of solvent should take approximately 20 minutes to evaporate). Remove samples from QuikVap within five minutes after dryness. Cool in desiccator and reweigh. If samples cannot be removed from the QuikVap within five minutes of achieving dryness, it is advisable to operate the QuikVap at a lower temperature to prevent loss of analyte. The time necessary to evaporate samples is both heat and flow dependent. Some experimentation may be necessary to achieve the best results for your needs.

Replacement Parts and Accessories:

Description

Curved Needles, Pack of 6

Needle Adaptors, Pack of 6

100mL Borosilicate Flasks, Each

Aluminum Evaporating Pan, 105mm diameter, Pack of 100

Aluminum Evaporating Pan, 105mm diameter, Pack of 1,000

Aluminum Evaporating Pan, 70mm diameter, Pack of 100

Catalog

G7004A

G7004B

G1045

F93140DSH

F93140DSH-C

F93447DSH

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