

Simple, Affordable Microplate Evaporation Solutions

For low-volume nitrogen evaporation applications, affordability and ease-of-use matter most

Microplate evaporators are designed specifically for concentrating low-volume samples. They deliver a constant stream of nitrogen gas, coupled with added heat when necessary, for sample concentration. Many life science and synthetic chemistry applications, including gas and liquid chromatography, require solvent evaporation for sample and compound concentration. Unfortunately, for many low-volume, academic, and startup laboratories, the cost of an evaporator is prohibitive. Automated, high-throughput microplate evaporators are expensive, and unnecessary for lower-volume applications that require drying individual plates. The Organomation MICROVAP® microplate evaporators, designed for use with 96-well microplates and 96-well deep well plates, offer an affordable alternative ideal for lower-volume laboratories.

Solvent evaporation rate depends on gas flow and temperature. Low boiling point solvents may be evaporated with a steady stream of nitrogen gas at ambient temperatures, whereas higher boiling point solvents require additional heat. The MICROVAP gas delivery manifold delivers a continuous stream of nitrogen gas from stainless steel needles for gentle evaporation of low boiling point solvents. A flowmeter enables the user to adjust the flow of nitrogen gas entering the system, for optimal delivery to the samples. For high boiling point solvents requiring additional heat, a digital temperature controller and solid aluminum heating unit can be added to enable a wide range of applications—providing uniform heat up to 130°C— without sacrificing affordability.

For higher-volume laboratories that do not require a fully-automated high-throughput system, the triple plate MICROVAP offers an affordable mid-range solution for batch processing. Combining three 96 needle manifolds with three heat blocks, the triple plate MICROVAP enables simultaneous evaporation of up to three 96-well plates. In circumstances when all three manifolds are not in use, a toggle switch can be used to shut down gas flow at individual manifolds to conserve nitrogen gas.



Nitrogen evaporation is an important step in sample preparation for a wide range of applications, including LCMS. The MICROVAP can be used to remove residual solvents such as acetonitrile, dichloromethane, and methanol, prior to reconstituting the sample in the appropriate solvent for LCMS analysis.

Featuring a small footprint, digital temperature controller and gas flow meter, and easy operation, the Organomation MICROVAP microplate evaporators are a simple, affordable solution for low-volume applications.

To learn more, visit:

Organomation®

A Compact and Flexible Solution for Nitrogen Evaporation

MICROVAP® nitrogen evaporators feature a small footprint and are easily configured for a variety of applications

Laboratory space is always in high demand, and purchasing decisions must take into consideration the equipment's footprint to ensure it will not disrupt existing workflows. This is especially important within the fume hood, where multiple pieces of equipment must compete for valuable space. Evaporators are required for a wide range of applications, and as such, are an essential piece of equipment for many laboratories. They, too, require valuable space within the hood, and depending on the application, various configurations may be required to accommodate microplates and different sizes of test tubes and vials. Organomation MICROVAP laboratory evaporators are designed with a minimal footprint, and offer additional flexibility with easy conversion between microplate and microcentrifuge tube configurations for a variety of different applications.

MICROVAP evaporators provide the controlled gas flow and heat necessary to evaporate multiple different solvents, and require minimal hood space. Non-heated configurations that provide a steady stream of nitrogen gas at ambient temperatures are suitable for evaporating low boiling point solvents, such as acetone. For high boiling point solvents, a heating unit with built in temperature controller provides uniform heat up to 130°C.

Designed with flexibility and ease of use in mind, the MICROVAP is easily converted from 15 or 24 position test tube configurations to a microplate configuration, enabling multiple different applications. Additional dry blocks and gas manifolds require minimal storage space, and are easily detached and replaced for a quick transition between configurations. The 15 or 24 position test tube configurations may be used to concentrate small batch samples, for example, when removing solvents from solid



phase extraction cartridge elutions. Alternatively, the single position microplate configuration is ideal for low-volume applications, such as organic solvent removal from HPLC fractions.

For laboratories that rely on nitrogen evaporation, MICROVAP evaporators deliver a flexible solution to support a wide range of applications.

To learn more, visit:

Organomation®

Your Partners in Sample Preparation Since 1959



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MISSION STATEMENT

Organomation exists to partner with its customers by providing high quality instruments and support services, while ensuring its employees participate in a safe, financially secure and respectful workplace.



MADE IN AMERICA

All of our instruments are carefully assembled and tested, by hand, in the USA, with the highest quality materials.



CUSTOMER SERVICE

We take pride in being partners with our customers and providing lifetime support from the first interaction through post-purchase.



ABOUT US

Since being founded in 1959 by the late Dr. Neal McNiven, Organomation strives to manufacture reliable, yet affordable nitrogen blowdown evaporators, solvent extractors, and nitrogen generators.

Our instruments are designed to automate the sample evaporation process ahead of LC-MS, GC-MS, and HPLC. We specialize in removing excess solvent from samples held in test tubes and microplates. Our quality instruments are highly respected worldwide, with a reputation for being well-made, trustworthy, and low maintenance.

CONTACT US



+1 (978) 838-7300



sales@organomation.com



www.organomation.com



266 River Road West
Berlin, MA 01503
United States