

Organomation™

Laboratory Evaporators and Extractors



**Blowdown Nitrogen
Evaporators for
Sample Vials
Large Volume
Evaporators with
Solvent Collection**



**Your Partners
in Sample
Preparation
since 1959**



**Organomation
Associates, Inc.**
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USA

Nitrogen Evaporators

Organomation™ instruments are deeply involved in sample preparation for research and testing with applications in fields as diverse as:

Environment

Agriculture

Food and Beverage

Medicine

Quality Assurance

Forensic Science

Government

Academia

Oil and Grease

We manufacture three lines of nitrogen evaporators. Our N-EVAP™ evaporators, MULTIVAP™ evaporators and MICROVAP™ evaporators have been made by hand in the USA for over 50 years and are installed in laboratories around the world.

Advantages:

- **Long lasting:** Our instruments are built with longevity in mind. We regularly service instruments which have been in the field for over fifteen years.
- **Affordable:** Organomation instruments provide maximum utility through low acquisition and maintenance costs. Our instruments do not require expensive accessories or consumables which allow the cost of operation to be much lower than that of our competitors' products.
- **Easy to use:** Easy to install and operate, Organomation evaporators and extractors provide a superior user experience. Technicians of any experience level can operate our instruments no matter what the environment.

N-EVAP™ Evaporator Product Line

Organomation's N-EVAP nitrogen evaporators provide flexibility and individualization for concentrating diverse samples. Our product line has instruments ranging from six to forty-five sample positions. Our adjustable nitrogen blow down technology allows for full control of gas flow to samples, with no wasted nitrogen. We combine this with uniform heat applied efficiently through either water or dry baths. This design saves labs money while maximizing solvent evaporation rates.

**12 Position N-EVAP
Evaporator**



Catalog # 11155

**Automatic
20 Position N-EVAP
Evaporator**



Catalog # 11220

**45 Position N-EVAP
Evaporator**



Catalog # 11645

N-EVAP evaporators are also available in a 6 position (Catalog # 11106) and a 34 position (Catalog # 11634) model

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The 24 Position N-EVAP™ Evaporator

The 24 Position N-EVAP evaporator (Catalog # 11250) is one of our most popular and economical instruments. Time tested technology and proven construction ensure a dependable, long lasting and user-friendly experience. Available with either a water bath or a dry bath.

Advantages:

- **Accommodates a wide range of sample vials:** The standard sample holder accommodates vials with an outside diameter of 10-30 mm. A large sample holder option can be added to accommodate vials with outside diameters in the range of 30-75 mm. Acid resistant models are also available for use with corrosive solvents.
- **Individualized control of each sample:** Gas flow can be controlled at each sample position via needle valves. Chrome plated, these valves are individually milled from solid brass, enabling precise, uniform adjustments for nitrogen blow down. This promotes efficient and safe sample reduction with minimal waste.
- **Gentle:** N-EVAP nitrogen evaporators combine nitrogen blow down with a heated bath to gently concentrate delicate samples.

**Dry bath model
with acid resistant coating**



Catalog # 11250-DGRT

Water bath model



Catalog # 11250

MULTIVAP™ Evaporator Product Line

MULTIVAP evaporators are ideal for concentrating large batches of samples and are used in numerous sample preparation methodologies. Nitrogen gas is delivered to each sample via individual stainless steel needles connected to the hand built gas distribution manifold. All of our MULTIVAP evaporators include a built-in timer to shut heat and nitrogen gas off for maximum efficiency.

Advantages:

- **Customized to your sample's specifications:** Each MULTIVAP is expertly designed to your sample vial's specifications. The instrument's digital controls allow exact temperature regulation.
- **Impressive temperature range:** The water bath provides uniform heating and optimum heat transfer up to 100°C. For solvents with higher boiling points, our dry bath models can reach temperatures of up to 120°C.
- **Cost effective:** Conserve gas by using the ON/OFF valves for rows not in use.

64 and 100 position models utilize our classic water bath

9, 30, 48, and 80 position units are available in high temperature dry block models



MICROVAP™ Evaporator Product Line

Perfect for evaporating small batches of samples and microplates, these instruments are light, compact and digitally controlled for ease of use.

Microplate Evaporators

Single MICROVAP Evaporator



Catalog # 11801

Triple MICROVAP Evaporator



Catalog # 11803

Small Batch Evaporators

15 Position MICROVAP Evaporator



Catalog # 11815

24 Position MICROVAP Evaporator



Catalog # 11824

Advantages:

- **Evaporate sample vials and microplates with one instrument:** Our MICROVAP evaporators provide ultimate flexibility by allowing you to evaporate 96 position microwell plates in addition to sample vials.
- **Compact design:** The MICROVAP evaporator product line has the smallest footprint of our instruments and is one of the most compact sample concentrator product lines available.

Solvent Evaporators

Organomation's S-EVAP™ solvent evaporators with solvent collection condense and collect evaporated solvent into individual or central collection flasks. These evaporators come in two configurations: S-EVAP-RB for Round Flasks and S-EVAP-KD Evaporators for Kuderna Danish Flasks. Both products are available with digital or mechanical temperature controls. These evaporators come in two configurations: S-EVAP-RB evaporators for Round Flasks and S-EVAP-KD evaporators for Kuderna Danish Flasks.

Mechanical Thermostat:



Digital Temperature Control:



Advantages:

- **Solvent recovery:** Recover up to 97% of starting solvent volume with collection glassware.
- **Protect delicate samples:** Organomation's vacuum insulated concentrator tubes keep delicate samples safe. The water bath is gentler than jacketed concentration tubes in traditional KD set-ups.

Solvent Collection

One of the shortcomings of traditional organic extraction procedures is the large volumes of solvent evaporated with no procedure for collection and proper disposal. The lack of an efficient solvent recovery process can lead to health and environmental hazards, as volatile organic solvents are released into the environment. Organomation's S-EVAP™ solvent evaporators with solvent collection condense and collect excess solvent into individual or central collection flasks.

The S-EVAP-RB and S-EVAP-KD evaporators are each capable of up to 97% solvent recovery



Central Collection:

- Central location adds solvent collection capabilities while maintaining the same footprint
- Solvent can be drained from the collection glassware
- Collection glassware can hold either 2.5L or 4L of solvent depending on the configuration
- This option is only available for S-EVAP-KD instruments



Individual Collection:

- Allows the solvent from each sample position to be analyzed separately
- Green clips allow collection glassware to be removed with ease
- This option is available for both S-EVAP-KD and S-EVAP-RB instruments



Solvent Extraction

You are in the lab and need to run multiple extractions at once. Between the individual Soxhlet extractors, heating mantels and tubing, you will spend more time assembling and monitoring your apparatuses than actually performing chemistry.

The ROT-X-TRACT product line eliminates chaos and wasted time by allowing for up to 8 or 10 extractions to be performed simultaneously in a single bath with a pair of water manifolds.

ROT-X-TRACT-S



Rotary Solid-Liquid
Soxhlet Extractor

ROT-X-TRACT-L



Rotary Liquid-Liquid
Extractor

ROT-X-TRACT-LC



Corning Accelerated
One-Step
Liquid-Liquid Extractor

Advantages:

- **Conserve valuable bench space:** All samples are arranged in a circle.
- **Easy sample access:** Each instrument rotates allowing all samples to be accessed from the front.
- **Fewer connections:** One water supply line in, one drain line out.



Organomation™ Associates, Inc. was founded in 1959 by the late Dr. Neal McNiven, who developed the first multiple sample, high-speed nitrogen evaporator, the forerunner of many similar devices.

We have partnered with laboratories, scientists, universities and government agencies around the world to create and supply durable, affordable, versatile and easy-to-use sample preparation instruments.

As a family business, our chief concern is maintaining our heritage of providing value to customers. We build what we sell and service what we build.

With this commitment, we strive to:

- **Produce quality** - When you purchase an Organomation instrument, you can be confident it is built to last. Our instruments are carefully assembled and tested, individually, by hand, in the USA, from the highest quality components. Organomation produces low maintenance laboratory equipment which will function without issue for many years with minimal operating costs.
- **Provide superior service** - We seek to deliver the best possible experience to all who contact us. When you reach out to Organomation, expect to talk with a real person who will do everything they can to help you.



"I ordered the Organomation N-EVAP™ (evaporator) 112 to replace an existing N-EVAP (evaporator) which had been in use for nearly 25 years. I would recommend the N-EVAP (evaporator) to any lab looking for a reliable and easy to use nitrogen evaporator."

Autumn R&D Scientist at a Major Research Hospital