

NITROGEN EVAPORATION SYSTEM - TORONNITRO™ BETA 1500



Nitrogen Evaporation System - ToronNitro™ Beta 1500 (Automated)

Nitrogen Evaporation System workflows often become the bottleneck right before GC or LC analysis. ToronNitro™ Beta 1500 (Automated) is a nitrogen blowdown concentrator that evaporates up to 12 samples in parallel with automated end-point detection for controlled final volume.

It uses vortex airflow technology with gentle, uniform heating to drive fast evaporation while keeping batch results consistent. End-point sensing supports predefined residual volumes using 0.5 mL or 1.0 mL end-point stems, which helps reduce over-drying and rework.

APPLICATIONS

Nitrogen Evaporation System - ToronNitro™ Beta 1500 (Automated) Applications



Food and beverage testing

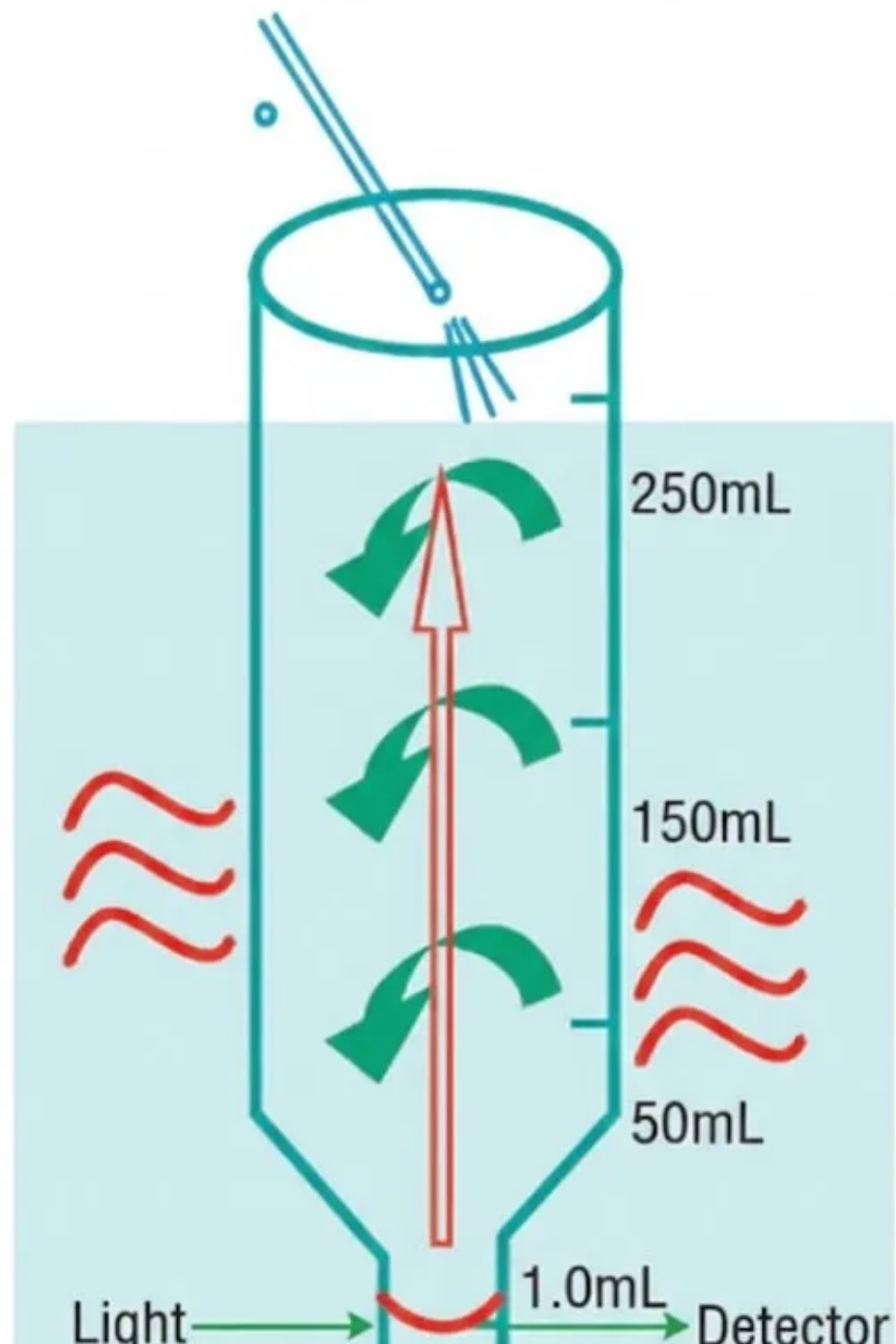
Use it to concentrate extracts before pesticide or residue screening. Parallel processing supports busy labs that need repeatable evaporation across multiple samples in one run.

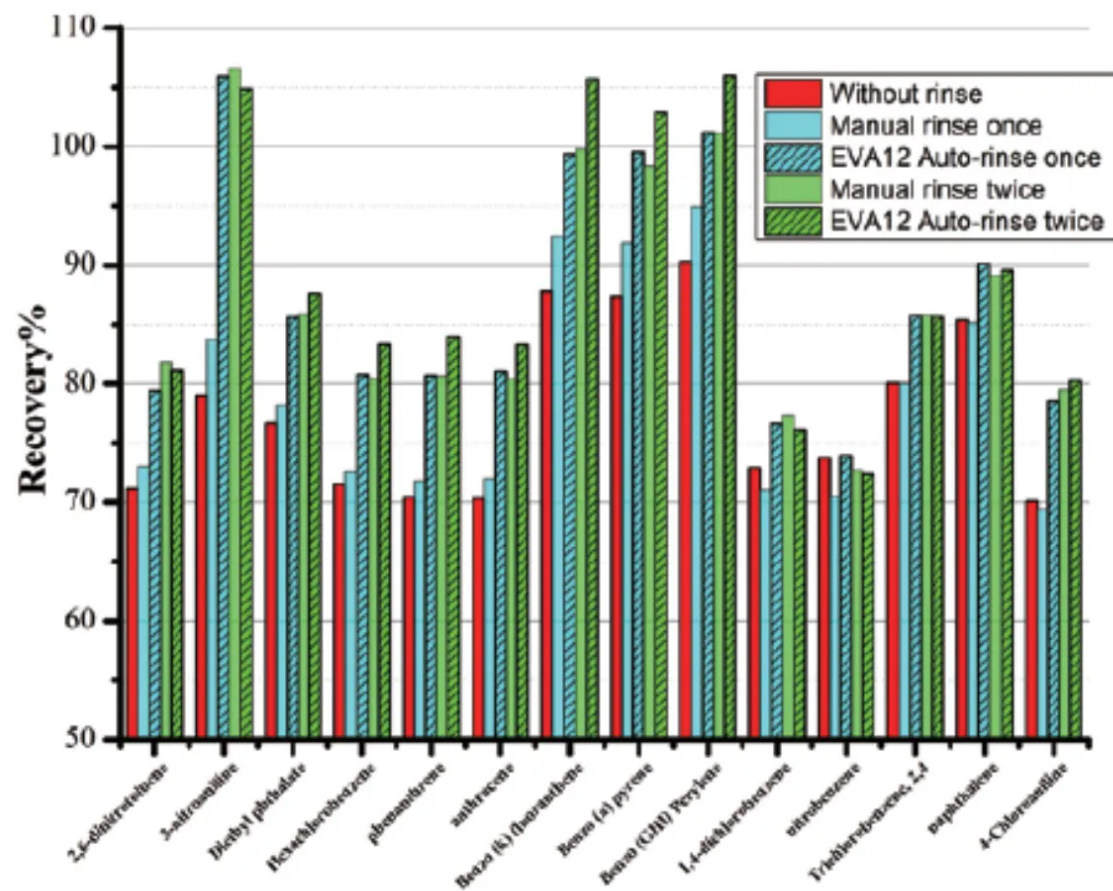
Water and environmental analysis

Concentrate liquid samples from water and environmental workflows prior to instrumental analysis. Automated endpoint control helps standardize the final volume across batches.

Agriculture, pharma, and life science sample prep

Support concentration steps for agricultural testing, pharmaceutical sample prep, and life science research where controlled solvent removal is required before downstream measurement.





Nitrogen Evaporation System - ToronNitro™ Beta 1500 (Automated) Key Features

- 12-sample automated parallel evaporation with end-point detection for consistent finishing volume.
- Vortex airflow plus gentle, uniform heating for rapid evaporation without aggressive boiling.
- Selectable end-point stems for 0.5 mL or 1.0 mL residual volume control.
- Independent nozzle-row control with adjustable airflow and a flow-rate gradient option as volume decreases.
- Flexible nozzle angles to match multiple tube types, commonly 65 mL and 260 mL tubes.
- Automatic water supply and drain to simplify water-bath handling and speed sample changeover.
- Three-sided transparent windows with internal lighting for clearer process visibility during evaporation.
- Touchscreen interface for airflow and temperature control, including individual tube control.
- Automatic “sprinkler” rinsing mode to improve recovery, designed for mid-run or endpoint rinsing. Reported recovery improvement is 10–15% versus no rinsing or manual rinsing.



65mL Tube



260mL Tube

Flexible

- The nozzles can be adjustable for left and right angles blowing, which is compatible with a variety of sample tubes.
- It is commonly used for 65mL and 260mL tubes.
- The system can automatically supply and drain water, quickly exchange the sample in the water bath;



Good visibility

- Three-sided transparent glass windows with internal light greatly improves the visibility of the process of nitrogen blowing and concentration.

TECHNICAL SPECIFICATIONS

Nitrogen Evaporation System - ToronNitro™ Beta 1500 (Automated)
Technical Specifications

Parameter	Specification
Concentration	Water bath heating and nitrogen blowing
Sample capacity	12
Range of concentration temperature	Room temperature to 60°C

Parameter	Specification
Sample vials	60 mL, 250 mL stemmed glass tubes for endpoint detection
Endpoint detection	1.0 mL, 0.5 mL
Range of gas flow rate	0 to 5.0 L/min, precise to 0.1 L/min
Software interface	10-inch built-in screen
Dimensions	58 cm × 46 cm × 56 cm
Weight	41 kg
Voltage	200 to 240 V, 50/60 Hz (110V is also available)
Power rate	1500 W
Fume hood/ventilation	Required
Storage temperature	0 to 40°C
Storage humidity	20 to 85%
Operating temperature	10 to 40°C
Operating humidity	20 to 80%



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