

PARALLEL NITROGEN EVAPORATION SYSTEM



Parallel Nitrogen Evaporation System - ToronNitro™ Para 1500 (Automated)

Parallel Evaporation System performance often decides how fast your lab can report results. ToronNitro™ Para 1500 (Automated) is a high-throughput nitrogen blowdown concentrator that combines water-bath heating with parallel nitrogen evaporation to concentrate extracts with strong batch-to-batch consistency. The system includes needle-following (liquid-level tracing) to keep the needle tip at an efficient working distance during the run. Positive-pressure nitrogen coverage above each sample helps limit oxygen and moisture contact during evaporation.

ToronNitro™ Para 1500 is built for productivity upgrades, taking the core workflow of earlier high-capacity concentrators and adding easier monitoring and improved usability. A three-sided transparent viewing area helps operators watch progress without interrupting the run. A built-in touchscreen simplifies method setup, run control, and day-to-day operation.

APPLICATIONS

Parallel Nitrogen Evaporation System - ToronNitro™ Para 1500 (Automated) Applications

Environmental testing and monitoring

Water, soil, and gas-related samples often require concentration before GC/LC analysis. ToronNitro™ Para 1500 supports parallel evaporation for environmental extracts to help labs maintain throughput during busy schedules.

Food safety and residue analysis

Pesticide and veterinary drug residue testing frequently needs a consistent solvent-reduction step after extraction and cleanup. This Parallel Evaporation System helps standardize concentration across a full rack, which supports repeatability and reduces operator rework.

Biochemical, pharmaceutical, and materials workflows

Many analytical methods depend on controlled concentration before downstream measurement. ToronNitro™ Para 1500 supports multi-sample evaporation for biochemical analysis, pharmaceutical sample prep, and polymer materials testing.

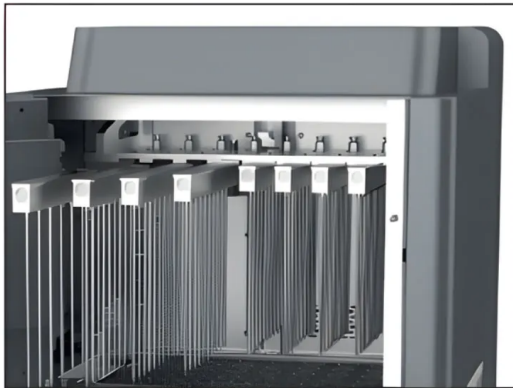


FEATURES

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

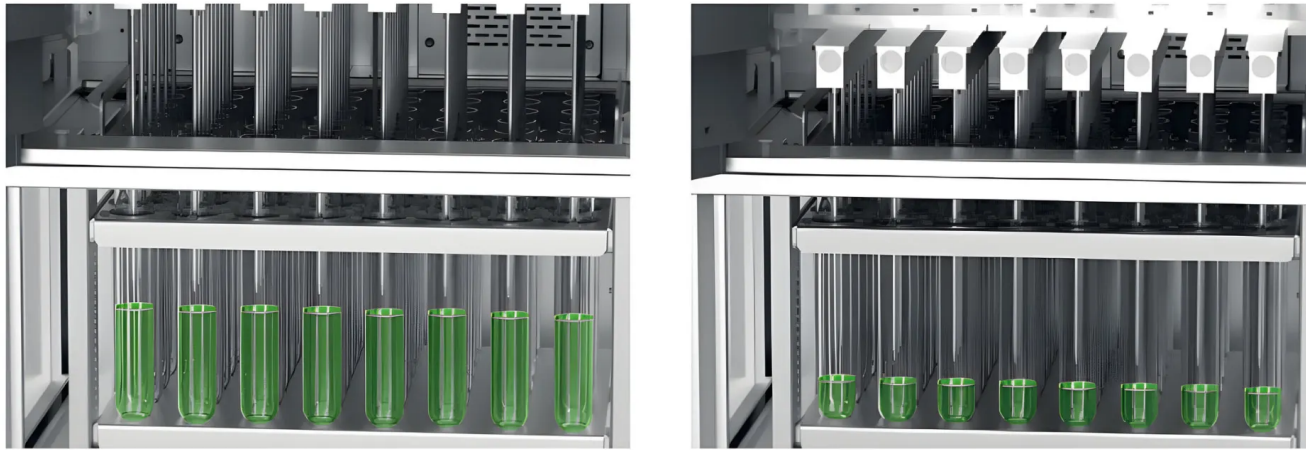
- High-throughput parallel evaporation
 - Simultaneously evaporates up to 80 samples to support large-batch sample preparation.
- Liquid-level needle tracing
 - Needle following maintains an efficient distance from the liquid surface for stable, consistent concentration across all positions.
- Multi-channel gas control
 - Each channel's gas flow can be controlled individually to match method needs and sample variability.
- Uniform nitrogen blowdown design
 - High-strength, diameter-reduction needles help center the needle tips in tubes, while consistent inner diameter across tips supports uniform flow from position to position.
- Quick-disassembled needle set
 - Nitrogen blowing needles remove quickly for easier cleaning and faster changeovers between runs.
- Three-sided transparent water-bath viewing
 - A three-sided transparent window maximizes visibility of the rack for observation and monitoring.
- Touchscreen operation and fast needle lift
 - Built-in touchscreen control supports straightforward operation, plus rapid lifting of the blowing needle for quicker handling.
- Automation-friendly rack transfer

- Interchangeable racks can be compatible with automated SPE collection racks, helping reduce repetitive manual transfers.
- Comprehensive safety protection
 - Built-in exhaust with active exhaust piping helps reduce exposure risk. Separated nitrogen and heating modules improve operator safety. Automatic air-source pressure monitoring, low-pressure shutdown, and alarms for insufficient water and dry heating support safer unattended runs.
- Optional automated nitrogen generator
 - An optional nitrogen generator can provide continuous nitrogen supply for evaporation workflows, reducing dependence on cylinder changes



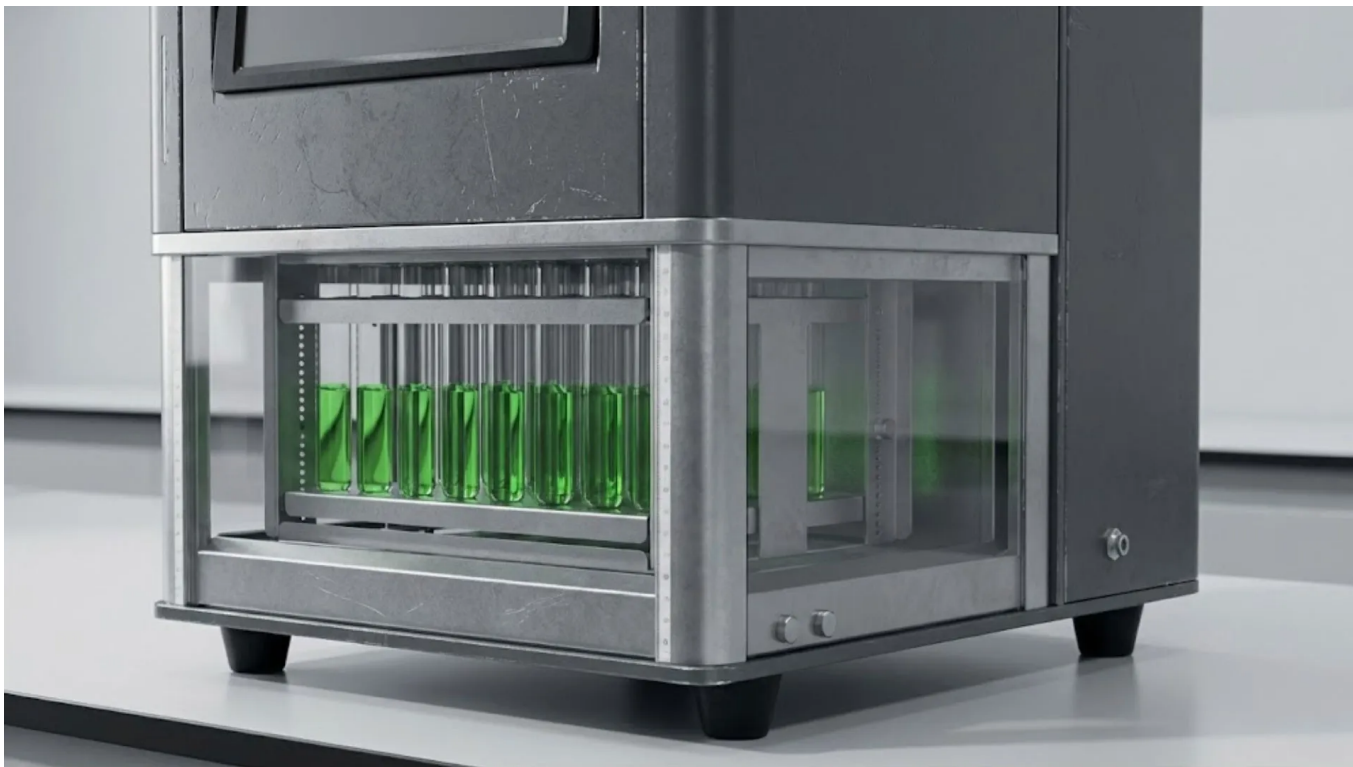
Multi-channel design

- Individually control to gas flow of each channel
- Quick-disassembled nitrogen blowing needle, easy to clean and use, greatly improves user experience



Good parallelism of nitrogen blowdown

- Utilize high-strength diameter-reduction nitrogen blowing needles allowing the needle tips at the centre of sample tubes
- Each nitrogen blowing needle tip has the same inner diameter, ensuring same flow rate of each needle tip, to provide good consistency for sample evaporation



Transparent water bath sink

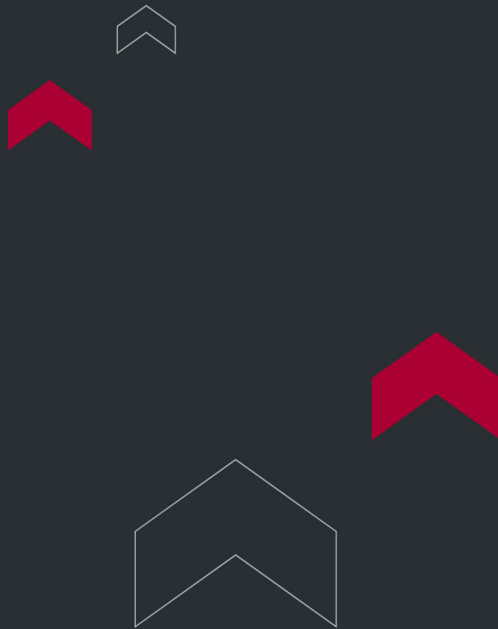
- Three-sided transparent glass window, to maximize viewing area to sample rack for clear observation and monitoring.

TECHNICAL SPECIFICATIONS

**Parallel Nitrogen Evaporation System - ToronNitro™ Para 1500
(Automated) Technical Specifications**

Parameter	Specification
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Concentration	Water bath heating and nitrogen blowing
Nitrogen channel	8
Sample capacity	80, 48
Sample vials	10 to 100 mL
Range of flow rate	0 to 3.0 L/min, precise to 0.1 L/min
Software interface	10-inch built-in touch screen
Dimensions	40 cm × 48 cm × 54 cm
Weight	48 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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