



TORONTECH



HIGH-THROUGHPUT VACUUM PARALLEL EVAPORATOR

High-throughput Vacuum Parallel Evaporator - ToronVac™ 2000 (Automated)

Vacuum Parallel Evaporator ToronVac™ 2000 is an automated sample concentration system built for labs that need fast, consistent evaporation across many samples at once. It combines precise digital vacuum control with uniform water-bath heating to keep every position in the same evaporation environment.

This approach helps reduce analyte loss risk linked to azeotropy under overly low pressure, while improving repeatability for trace-level workflows in environmental and food testing.

APPLICATIONS

High-throughput Vacuum Parallel Evaporator - ToronVac™ 2000 (Automated) Applications

- Environmental testing (water, soil, SVOC workflows): Concentrate extracts after cleanup so target compounds are ready for GC/MS or LC/MS reporting with consistent end-point control across positions.
- Food safety sample preparation: Speed up evaporation steps used after pesticide or contaminant extraction so labs can process more batches per shift with comparable conditions across samples.
- High-throughput multi-sample concentration: Evaporate up to 16 large-volume samples in parallel (100–200 mL class), reducing bottlenecks compared with one-by-one rotary evaporation.
- Solvent recovery workflows: Recover condensed solvent vapor through the integrated low-temperature condenser, supporting cleaner operation and reduced solvent waste.

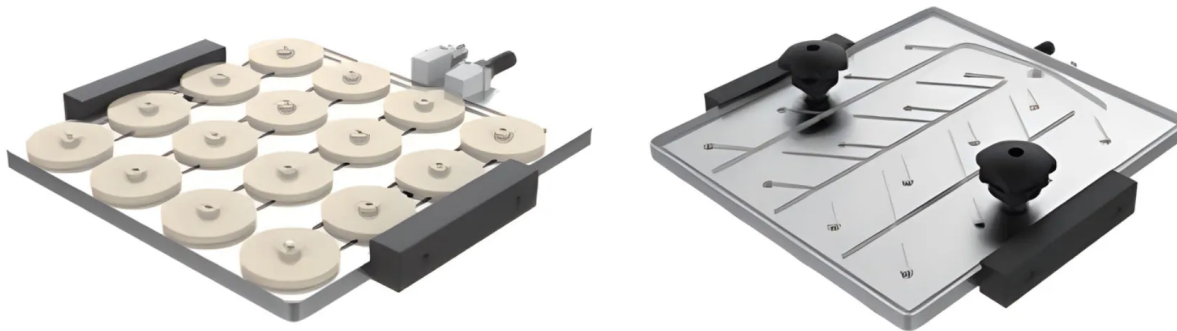


FEATURES

High-throughput Vacuum Parallel Evaporator - ToronVac™ 2000 (Automated) Key Features

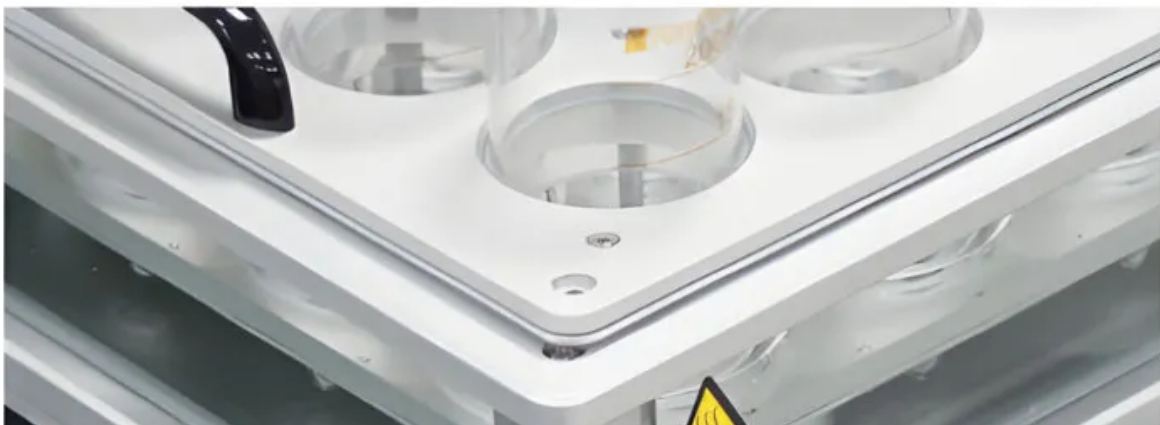
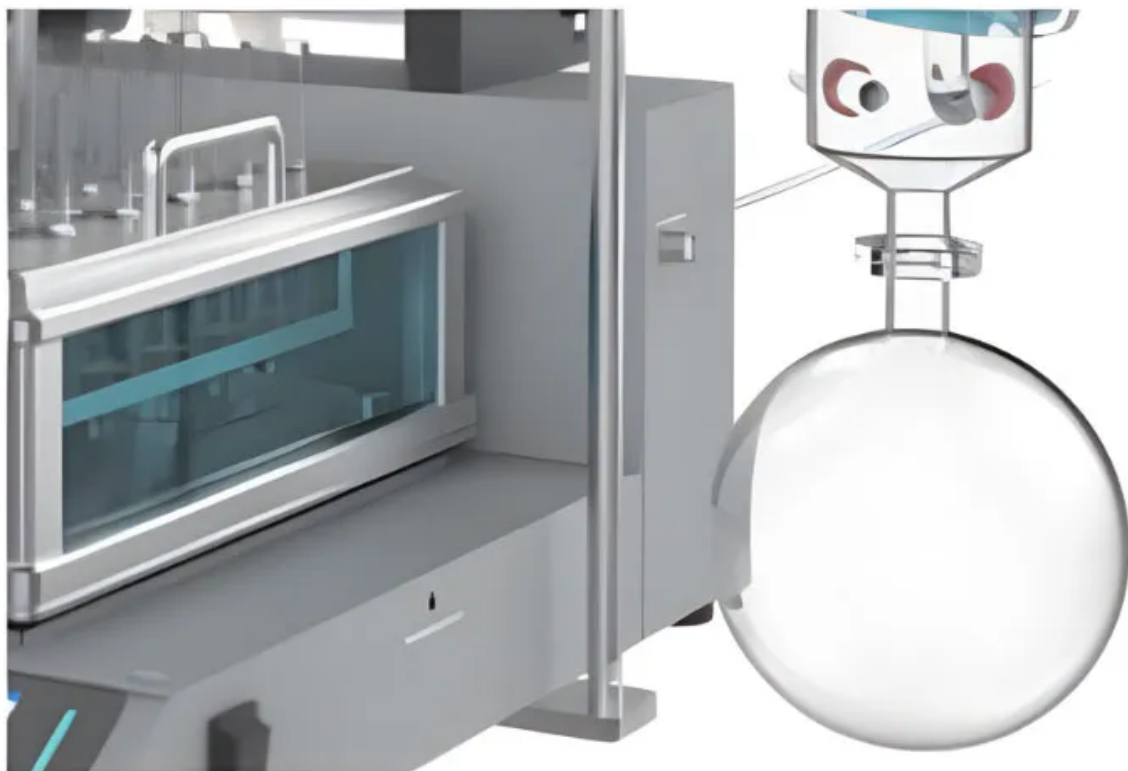
- Uniform water-bath heating for strong parallelism
 - Water bath heat transfer helps keep each position at the same temperature for consistent evaporation behavior across the rack.
- Precise digital vacuum control
 - Digital vacuum control supports stable evaporation conditions and helps reduce loss mechanisms tied to excessive vacuum in certain solvent systems.
- High-throughput concentration performance
 - Parallel evaporation can cut total time versus single-sample approaches, with an example comparison shown for 16 samples.
- Integrated solvent recovery path
 - Low-temperature condensation recovers solvent vapor, and a corrosion-resistant PTFE path is designed for harsh vapor environments.
- Three-sided visibility for easier end-point control
 - Transparent bath walls help you visually confirm evaporation status and stop at the intended endpoint to reduce over-concentration loss.
- No nitrogen cylinder required
 - Eliminates day-to-day handling of nitrogen cylinders and reduces ongoing nitrogen consumption cost.
- Flexible tube compatibility up to 200 mL concentration volume

- Supports multiple tube formats for different matrices and methods, with stated maximum concentration volume reaching 200 mL.
- Design features to reduce cross-contamination
 - Quick-change sealing cover enables fast tube swaps, cover heating helps limit condensation, and the diversion design improves exhaust handling to reduce location-to-location carryover risk.
- Anti-bumping and anti-boiling control strategy
 - Circular shaking, water-bath heating, and vacuum control work together to reduce bumping, with real-time vacuum sensing to protect target analytes.
- Touchscreen method programming and storage
 - One touchscreen interface sets and saves temperature, vacuum, time, shaking frequency, and gradient evaporation for repeatable runs.



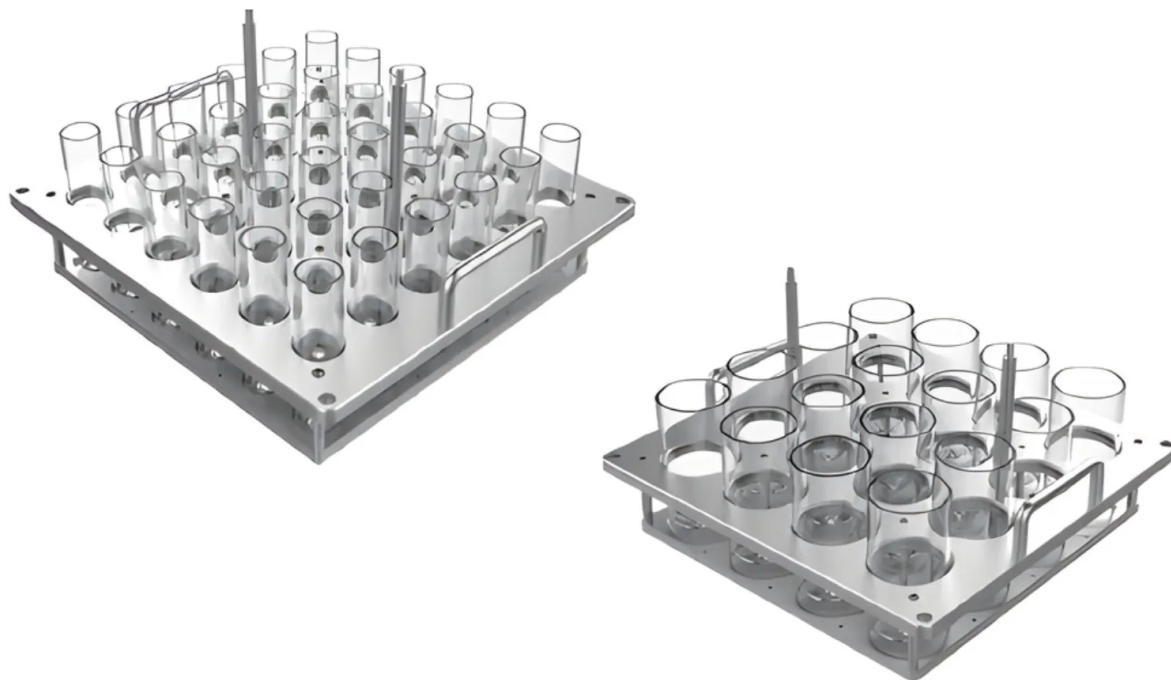
No need Nitrogen

- It avoids the inconvenience of using and handling nitrogen cylinders, and reduces the cost of nitrogen consumption.



Solvent recovery

- The system has a low-temperature condenser for vapor condensation to recover solvents. The entire corrosion-resistant PTFE system provides durable and reliable performance guarantees for harsh vapor environments. For example, the recovery rate of acetonitrile (coolant 0°C) is as high as 99.2%.



Good visible observation

- The three sides of the water bath are transparent, so you can quickly check the evaporation condition of the sample. When the liquid level is close to 1mL or nearly dry as specified in the standard method, you can visually just the end

point easily. Avoid the loss caused by excessive concentration.

TECHNICAL SPECIFICATIONS

High-throughput Vacuum Parallel Evaporator - ToronVac™ 2000
(Automated) Technical Specifications

Specification	Details
Concentration method	Vacuum negative pressure, water bath heating, and oscillation
Sample capacity	16, 36
Sample vials	65 mL / 260 mL glass tube with stem; 70 mL / 320 mL glass tube
Water bath temperature range	Room temperature to 80°C
Oscillation speed range	0 to 300 rpm
Vacuum pump speed range	20 to 30 L/min
Vacuum pump noise	< 60 dB
Software interface	7-inch built-in touch screen
Dimension	67 cm × 44 cm × 34 cm
Weight	57 kg
Voltage	200 to 240 V, 50/60 Hz (110V is also available)
Power rate	2000 W
Fume hood / ventilation	Required

Specification	Details
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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