



TORONTECH



BENCH-TOP ROTARY EVAPORATOR EV-2000 / EV-3000 / EV-5000

Rotary Evaporator is a versatile instrument widely utilized in the pharmaceutical, chemical, and biopharmaceutical industries for concentration, crystallization, drying, separation, and solvent recovery. It functions by heating a rotating flask at a steady temperature under vacuum conditions, which creates a thin film on the flask's interior surface to improve evaporation efficiency. The vaporized solvent is condensed through a glass condenser and collected in a separate container, significantly enhancing overall performance.

APPLICATIONS

The Torontech Rotary Evaporator is an essential instrument for the gentle and efficient removal of volatile solvents from heat-sensitive samples. Its primary application is to concentrate solutions under vacuum, a process fundamental to modern laboratory work that requires the isolation of a target compound from its solvent without causing thermal degradation. This makes it a cornerstone for purification, concentration, and solvent recycling across numerous scientific fields.

This critical evaporation and concentration capability is fundamental to daily operations in:

- **Pharmaceutical & Chemical Synthesis:** For the purification and isolation of synthesized compounds and Active Pharmaceutical Ingredients (APIs) by efficiently stripping away reaction solvents without degrading the valuable target molecule.
- **Food, Flavor & Botanical Extraction:** To create high-quality concentrates, essential oils, and botanical extracts by gently removing solvents like ethanol, perfectly preserving the flavor, aroma, and potency of the final product.
- **Academia & Research:** As a foundational instrument in organic chemistry and research laboratories for the routine concentration and purification of reaction mixtures, making it an essential part of nearly every experimental workup.
- **Analytical Sample Preparation:** For preparing samples prior to analysis by concentrating dilute solutions to bring the analyte within the detection limits of instruments like HPLC or GC, or for performing critical solvent exchange procedures.

FEATURES

- PTFE and fluororubber double seals ensure excellent vacuum performance.
- Constructed with high-strength borosilicate glass 3.3 for superior durability, temperature resistance, and corrosion resistance.
- Features dual protection for rotation and heating, offering enhanced safety.
- Equipped with an electric lift for ease of use.
- Integrated condenser with a double coil for a high solvent recovery rate.

THEORY & METHOD

Benchtop Rotary Evaporator

EV-3000A (Temperature digital display)

Benchtop Rotary Evaporator

EV-3000B (Temperature, rotation speed digital display)

Benchtop Rotary Evaporator

EV-3000E (Temperature, rotation speed LCD display, brushless DC motor)

Benchtop Rotary Evaporator

EV-5000 (Temperature, rotation speed LCD display)

Benchtop Rotary Evaporator

TECHNICAL SPECIFICATIONS

Model	EV-2000	EV-3000	EV-5000
Voltage	220-240V, 50Hz (110V is also available)		
Overall power	1260W		1560W
Rotating motor power	40W		
Lifting motor power	20W		
Heating power	1200W		1500W
Control panel	A: Digital display of temperature B: Digital display of temperature, rotation speed E: LCD display of temperature, rotation speed		LCD display of temperature, rotation speed
Vacuum degree	0.098MPa		
Evaporating flask	Eggplant-shaped 1L ϕ 131mm	3L ϕ 195mm	5L ϕ 230mm
Receiving bottle	1L ϕ 131mm	2L ϕ 166mm	3L ϕ 195mm
Rotation speed	0-200rpm		

Model	EV-2000	EV-3000	EV-5000
Temperature range	RT~99℃ (Water bath) RT~180℃ (Oil bath)		
Temperature control accuracy	+/-1℃		
Lifting distance	120mm		90mm
Lifting mode	Electric		
Condensing area	0.17m²	0.26m²	
Bath size & volume	Φ235×145H mm, 6.2L	Φ255×155H mm, 7.9L	Φ275×160H mm, 9.5L
Dimensions	630W×400D×(690-810)H mm	690W×490D×(810-930)H mm	690W×440D×(825-915)H mm
Weight	20.5kg	21.5kg	30kg



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