



TORONTECH



BENCH-TOP ROTARY EVAPORATOR EV-52A / EV-52C / EV-5299

Rotary Evaporator is widely used 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, enabling the formation of a thin film over the flask wall for efficient evaporation. The solvent vapor is condensed using a glass condenser and collected in a recovery flask, greatly improving the efficiency of the evaporation process.

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 strong vacuum performance.
- High-strength borosilicate glass 3.3 offers excellent temperature and corrosion resistance.
- Dual safety fuses for both rotation and heating enhance operational safety.
- Electric lift mechanism for easy operation.
- Integrated condenser with double coil design ensures a high solvent recovery rate.

THEORY & METHOD

Benchtop Rotary Evaporator

EV-52A (Digital display of temperature, manual lift)

Benchtop Rotary Evaporator

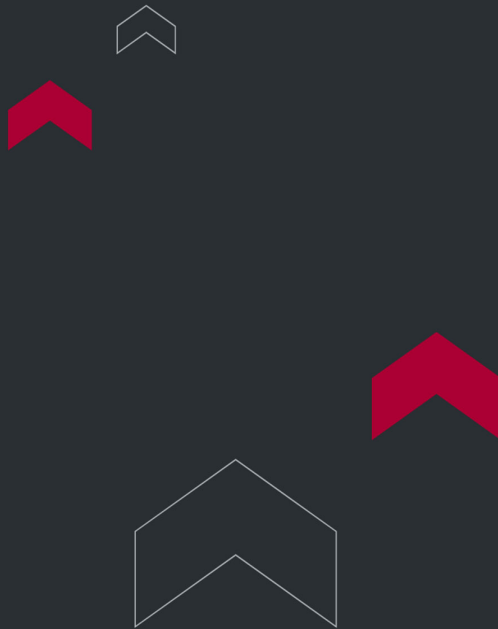
EV-52C (Digital display of temperature, electric lift)

Benchtop Rotary Evaporator

EV-5299 (Digital display of temperature, electric lift)

TECHNICAL SPECIFICATIONS

Model	EV-52A	EV-52C (5299)
Voltage	220-240V, 50Hz (110V is also available)	
Overall power	1240W	1255W
Rotating motor power	40W	
Lifting motor power	Manual lift	15W1/15
Heating power	1200W	
Control panel	Digital display of temperature	
Vacuum degree	0.098MPa	
Evaporating flask	Eggplant shaped 1000ml/24# standard mouth	
Receiving bottle	Round shaped 1000ml/35# ball milling mouth	
Rotation speed	0-120rpm	
Temperature range	RT~99°C (Water bath) RT~180°C (Oil bath)	
Temperature control accuracy	+/-1°C	
Lifting distance	150mm	
Bath size & volume	Φ220*120 mm, 4.5L	Φ245*140 mm, 6.5L
Dimensions	640W*430D*(860-1010)H mm	650W*440D*(880-1030)H mm
Weight	15kg	16kg



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