



TORONTECH

LAB-SCALE ROTARY EVAPORATOR



APPLICATIONS

The Torontech Lab-scale 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 + Fluoro Rubber Double Seal:** Provides reliable system sealing.
- **Adjustable Inclination:** Easily accommodates rotating flasks of various sizes.
- **Precision Temperature Control:** Features PID control for accurate temperature regulation.
- **Digital Display:** Clearly shows rotation speed and temperature settings.

- **Separated Main Unit and Bath:** Allows for flexible setup and operation.
- **Dual Lifting Options:** Includes both manual and electric lift mechanisms.

THEORY & METHOD

Lab-scale Rotary Evaporator

R-1001VN

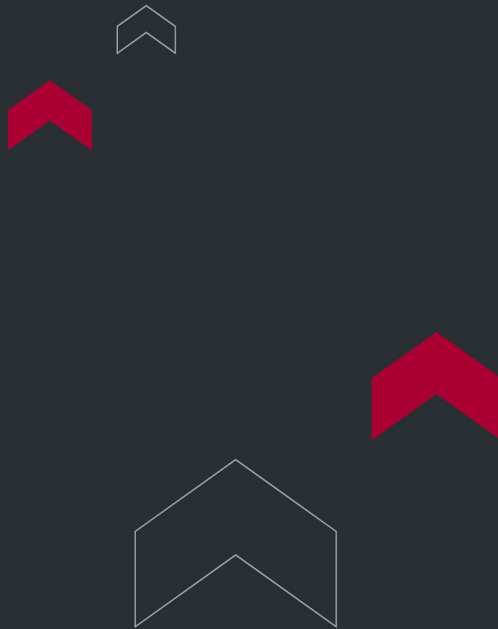
Lab-scale Rotary Evaporator

R-3001

TECHNICAL SPECIFICATIONS

Model	R-1001VN	R-3001
Dimensions (with glass parts)	640W×400D×670H mm	620W×400D×700H mm
Weight (with glass parts)	13kg	13.5kg
Voltage	110V~,60Hz or 220-240V~,50Hz	
Overall power	1080W	1390W
Protection grade	IP20	
Overvoltage category	I	

Model	R-1001VN	R-3001
Rotation speed	20~180rpm	10~280rpm
Temperature range of bath	RT~95°C (water bath) RT~180°C (oil bath)	
Nominal adjustment accuracy	±1.5°C	
Heat resource	Deionized water	
Vacuum leakage	<=0.33kPa/min	
Rotation control	Electric	
Heating capacity	1050W	1300W
Max. sea level	2000m	
Ambient temperature	5~35°C	
Environment relative humidity	<=70%	
Bath	06Cr19Ni10, Φ254×130mm	
Glass	3.3 borosilicate glass	
Sealing parts	PTFE	
Rotation speed setting	1rpm/step	
Bath temperature setting	0.1°C/step	
Temperature sensor	PT-100, 2-wire	
Bath cover	Optional	Standard
Rotation flask	500ml or 1000ml	
Receiving flask	1000ml	



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